UNCLASSIFIED
Department of Defense
Fiscal Year (FY) 2017 President's Budget Submission
February 2016


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

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## UNCLASSIFIED <br> Air Force • President's Budget Submission FY 2017 • Procurement

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## Appropriation Language Fiscal Year (FY) 2017 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, and overseas contingency operations, $\$ 2,542,538,000$ to remain available for obligation until September 30, 2019.

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Department of the Air Force
FY 2017 President's Budget Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
27 Jan 2016
(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 2015
(Base \& OCO)
163,020
$1,474,828$
$18,755,395$
32,813
$20,426,056$
FY 2016
Base Enacted
-------
218,302
$1,327,444$
$16,704,854$
59,863
$18,310,463$

FY 2016 OCO Enacted

| 218,302 |  |
| ---: | ---: |
| 35,418 | $1,362,862$ |
| $3,441,583$ | $20,146,437$ |
| 59,863 |  |
| $3,477,001$ | $21,787,464$ |

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## Department of the Air Force

FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget

## Total Obligational Authority

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

| $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: |
| 141, 151 | 106,817 | 247,968 |
| 1,285, 033 | 62,670 | 1,347,703 |
| 15,996, 088 | 3,526,794 | 19,522,882 |
| 15,784 |  | 15,784 |
| 17,438, 056 | 3,696,281 | 21,134,337 |

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Department of the Air Force
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
27 Jan 2016

Appropriation: 3080F Other Procurement, Air Force

| Line |  |
| :---: | :--- |
| No | Item Nomenclature |
| $--------------------~$ |  |

Budget Activity 02: Vehicular Equipment
------------------
1 Passenger Carrying Vehicles
Cargo and Utility Vehicles
2 Medium Tactical Vehicle A

| Ident | FY 2015 |  | FY 2016 |  | FY 2016 |  | FY 2016 |  | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Code | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | C |
|  |  | ---- |  | --- - |  |  |  |  | - |
| A |  | 6,528 |  | 8,834 |  |  |  | 8,834 | U |
| A |  | 7,639 |  | 58,160 |  |  |  | 58,160 | U |
| A |  | 1,700 |  | 1,700 |  |  |  | 1,700 | U |
| A |  | 27,778 |  | 12,483 |  |  |  | 12,483 | U |
| A |  | 10, 027 |  | 4,728 |  |  |  | 4,728 | U |
| A |  | 9,781 |  | 4,662 |  |  |  | 4,662 | U |
| A |  | 10,152 |  | 10,419 |  |  |  | 10,419 | U |
| A |  | 20,239 |  | 23,320 |  |  |  | 23,320 | U |
| A |  | 11,946 |  | 6,215 |  |  |  | 6,215 | U |
| A |  | 57,069 |  | 87,781 |  |  |  | 87,781 | U |

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Appropriation: 3080F Other Procurement, Air Force

| Line |  |
| :---: | :--- |
| No | Item Nomenclature |
| $---------------------~$ |  |

Budget Activity 02: Vehicular Equipment
Passenger Carrying Vehicles
1 Passenger Carrying Vehicles
Cargo and Utility Vehicles
2 Medium Tactical Vehicle
3 Cap Vehicles
4 Items Less Than \$5 Million
Special Purpose Vehicles
5 Security And Tactical Vehicles
6 Items Less Than \$5 Million
Fire Fighting Equipment
7 Fire Fighting/Crash Rescue Vehicles
Materials Handling Equipment
8 Items Less Than \$5 Million
Base Maintenance Support
9 Runway Snow Remov \& Cleaning Equip
10 Items Less Than \$5 Million
Cancelled Account Adjustments

(Dollars in Thousands)

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| 11 Cancelled Account Adjustments | A |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Total Vehicular Equipment |  | 141,151 | 106,817 | 247,968 |

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FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
27 Jan 2016

Appropriation: 3080F Other Procurement, Air Force


Budget Activity 03: Electronics and Telecommunications Equip
Comm Security Equipment(Comsec)

| 12 Comsec Equipment | A | 91,987 | 139,244 | 139,244 | U |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 13 Modifications (COMSEC) | A | 1,363 | 677 | 677 | U |
| Intelligence Programs |  |  |  |  |  |
| 14 Intelligence Training Equipment | A | 2,832 | 4,041 | 4,041 | U |
| 15 Intelligence Comm Equipment | A | 32,329 | 22,573 | 22,573 | U |
| Electronics Programs |  |  |  |  |  |
| 16 Air Traffic Control \& Landing Sys | A | 23,912 | 28,823 | 28,823 | U |
| 17 National Airspace System | A | 6,291 | 5,833 | 5,833 | U |
| 18 Battle Control System - Fixed | A | 2,704 | 1,682 | 1,682 | U |
| 19 Theater Air Control Sys Improvements | A | 50,033 | 22,710 | 22,710 | U |
| 20 Weather Observation Forecast | A | 16,309 | 21,511 | 21,511 | U |
| 21 Strategic Command And Control | A | 146,759 | 286,980 | 286,980 | U |
| 22 Cheyenne Mountain Complex | A | 35,301 | 36,186 | 36,186 | U |
| 23 Mission Planning Systems | A | 15,649 | 14,456 | 14,456 | U |
| 24 Drug Interdiction Spt | A | 20,405 |  |  | U |
| 25 Integrated Strat Plan \& Analy Network (ISPAN) | A | 9,060 | 9,597 | 9,597 | U |

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```
Spcl Comm-Electronics Projects
```

| 26 General Information Technology | A | 40,030 | 25,753 | 3,953 | 29,706 | U |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 27 AF Global Command \& Control Sys | A | 9,098 | 7,212 |  | 7,212 | U |

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at 10:18:54

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Department of the Air Force
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)
Appropriation: 3080F Other Procurement, Air Force


Budget Activity 03: Electronics and Telecommunications Equip

Comm Security Equipment(Comsec)

| 12 Comsec Equipment | A | 72,359 |  | 72,359 | U |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 13 Modifications (COMSEC) | A |  |  |  | U |
| Intelligence Programs |  |  |  |  |  |
| 14 Intelligence Training Equipment | A | 6,982 |  | 6,982 | U |
| 15 Intelligence Comm Equipment | A | 30,504 |  | 30,504 | U |
| Electronics Programs |  |  |  |  |  |
| 16 Air Traffic Control \& Landing Sys | A | 55,803 | 42,650 | 98,453 | U |
| 17 National Airspace System | A | 2,673 |  | 2,673 | U |
| 18 Battle Control System - Fixed | A | 5,677 |  | 5,677 | U |
| 19 Theater Air Control Sys Improvements | A | 1,163 |  | 1,163 | U |
| 20 Weather Observation Forecast | A | 21,667 |  | 21,667 | U |
| 21 Strategic Command And Control | A | 39,803 |  | 39,803 | U |
| 22 Cheyenne Mountain Complex | A | 24,618 |  | 24,618 | U |
| 23 Mission Planning Systems | A | 15,868 |  | 15,868 | U |
| 24 Drug Interdiction Spt | A |  |  |  | U |
| 25 Integrated Strat Plan \& Analy Network (ISPAN) | A | 9,331 |  | 9,331 | U |

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## Spcl Comm-Electronics Projects

| 26 General Information Technology | A | 41,779 | 41,779 |
| :--- | :--- | :--- | :--- |
| 27 AF Global Command \& Control Sys | A | 15,729 |  |

27 AF Global Command \& Control Sys
A
15,729
$15,729 \mathrm{U}$
P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at 10:18:54

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Department of the Air Force
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)

|  | FY 2015 |  | FY | 2016 | FY 2016 |  | FY 2016 S |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ident | (Base | \& OCO) | ase Enacted |  | OCO Enacted |  | Total Enacted |  |  |
| Code | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | c |
| A |  | 11,462 |  | 11,062 |  | 2,000 |  | 13,062 | U |
| A |  | 39,925 |  | 103,269 |  |  |  | 103,269 | U |
| A |  | 59,634 |  | 33,606 |  |  |  | 33,606 | U |
| A |  | 1,457 |  | 5,232 |  |  |  | 5,232 | U |
| A |  | 12,408 |  | 7,453 |  |  |  | 7,453 | U |
| A |  | 3,670 |  | 15,015 |  |  |  | 15,015 | U |
| A |  | 4,298 |  | 4,755 |  |  |  | 4,755 | U |
| A |  | 9,493 |  | 7,473 |  |  |  | 7,473 | U |
| A |  | 25,701 |  | 9,993 |  |  |  | 9,993 | U |
|  |  |  |  | 14,846 |  |  |  | 14,846 | U |
| A |  | 106,936 |  | 74,621 |  |  |  | 74,621 | U |
| A |  | 90,487 |  | 98,518 |  |  |  | 98,518 | U |
| A |  |  |  | 5,199 |  |  |  | 5,199 | U |
| A |  | 16,342 |  | 15,780 |  | 10,000 |  | 25,780 | U |
| A |  | 52,278 |  |  |  |  |  |  | U |
| A |  | 31,293 |  |  |  |  |  |  | U |

31, 293

27 Jan 2016

15,015 U

4,755 U
,
U

U

Appropriation: 3080F Other Procurement, Air Force

| Line |  |
| :---: | :--- |
| No | Item Nomenclature |
| $--------------------~$ |  |

## 28 Mobility Command and Control

29 Air Force Physical Security System
30 Combat Training Ranges
31 Minimum Essential Emergency Comm N
32 Wide Area Surveillance (WAS)
33 C3 Countermeasures
34 GCSS-AF Fos
35 Defense Enterprise Accounting and Mgmt System
36 Theater Battle Mgt C2 System
37 Air \& Space Operations Ctr-WPN SYS
38 Air Operations Center (AOC) 10.2
Air Force Communications
39 Information Transport Systems
40 AFNET
41 Joint Communications Support Element (JCSE)
42 USCENTCOM
Space Programs
43 Family of Beyond Line-of-Sight Terminals
44 Space Based Ir Sensor Pgm Space

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## CLASSIFICATION: UNCLASSI FIED

45 Navstar GPS Space
46 Nudet Detection Sys Space A

2,065
U
4,656

U

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## Department of the Air Force

FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)


A

| $\begin{aligned} & \text { Line } \\ & \text { No } \end{aligned}$ |  |
| :---: | :---: |
|  | Item Nomenclature |
| ---- |  |

28 Mobility Command and Control
29 Air Force Physical Security System
30 Combat Training Ranges
31 Minimum Essential Emergency Comm N
32 Wide Area Surveillance (WAS)
33 C3 Countermeasures
34 GCSS-AF Fos
35 Defense Enterprise Accounting and Mgmt System
36 Theater Battle Mgt C2 System
37 Air \& Space Operations Ctr-WPN SYS
38 Air Operations Center (AOC) 10.2
Air Force Communications
39 Information Transport Systems
40 AFNET
41 Joint Communications Support Element (JCSE)
42 USCENTCOM
Space Programs
43 Family of Beyond Line-of-Sight Terminals

## CLASSIFICATION: UNCLASSI FIED

45 Navstar GPS Space
A
U

46 Nudet Detection Sys Space A U P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at 10:18:54

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Department of the Air Force
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
27 Jan 2016

Appropriation: 3080F Other Procurement, Air Force


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## CLASSIFICATION: UNCLASSI FIED

| 59 Mechanized Material Handling Equip | A | 7,670 | 7,249 | 7,249 |
| :---: | :---: | :---: | :---: | :---: |
| Base Support Equipment |  |  |  |  |
| 60 Base Procured Equipment | A | 16,155 | 13,595 | 13,595 |

A
16,155
13,595
13,595 U
P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at $10: 18: 54$

## CLASSIFICATION: UNCLASSI FIED



CLASSIFICATION: UNCLASSI FIED

## CLASSIFICATION: UNCLASSI FIED

| 59 Mechanized Material Handling Equip | A | 7,344 |
| :--- | :--- | :--- |
| Base Support Equipment | A |  |
| 60 Base Procured Equipment | 6,852 |  |

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at 10:18:54

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Department of the Air Force
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)

(Dollars in Thousands)

27 Jan 2016

072 U

629,371 U U
,
U

21,787,464

| Line |  |
| :--- | :--- |
| No | Item Nomenclature |
| $-------------------~$ |  |

61 Engineering and EOD Equipment
62 Productivity Capital Investment
63 Mobility Equipment
64 Items Less Than \$5 Million
Special Support Projects
66 DARP RC135
67 DCGS-AF
69 Special Update Program
70 Defense Space Reconnaissance Prog.
999 Classified Programs
Total Other Base Maintenance and Support Equip Budget Activity 05: Spares and Repair Parts

Spares and Repair Parts
72 Spares and Repair Parts
73 Spares And Repair Parts
Total Spares and Repair Parts
Total Other Procurement, Air Force

## UNCLASSIFIED

Department of the Air Force
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)

| Ident | FY 2017 |  | FY 2017 |  | FY 2017 |  | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Code | Quantity | Cost | Quantity | Cost | Quantity | Cost |  |
| A |  |  | 53,900 |  | 53,900 |  | U |
| A |  |  |  |  |  |  | U |
| A | 8,146 |  |  |  | 8,146 |  | U |
| A | 28,427 |  |  |  | 28,427 |  | U |
| A | 25,287 |  |  |  | 25,287 |  | U |
| A | 169,201 |  | 800 |  | 170,001 |  | U |
| A | 576,710 |  |  |  | 576,710 |  | U |
| A |  |  |  |  |  |  | U |
|  | 15,119,705 |  | 3,472,094 |  | 18,591,799 |  |  |
|  | 15,996, 088 |  | 3,526,794 |  | 19,522,882 |  |  |
| A | 15,784 |  |  |  | 15,784 |  | U |
| A |  |  |  |  |  |  | U |
|  | 15,784 |  |  |  | 15,784 |  |  |
|  | 17,438, 056 |  | 3,696,281 |  | 21,134,337 |  |  |

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Appropriation: 3080F Other Procurement, Air Force


61 Engineering and EOD Equipment
62 Productivity Capital Investment
63 Mobility Equipment
64 Items Less Than \$5 Million
Special Support Projects
66 DARP RC135
67 DCGS-AF
69 Special Update Program
70 Defense Space Reconnaissance Prog.
999 Classified Programs
Total Other Base Maintenance and Support Equip Budget Activity 05: Spares and Repair Parts

Spares and Repair Parts
72 Spares and Repair Parts
73 Spares And Repair Parts
Total Spares and Repair Parts
Total Other Procurement, Air Force

## CLASSIFICATION: UNCLASSI FIED

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## 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 | Items Less Than \$5 Million. | ..Volume 1-17 |
| 5 | 02 | 03 | 823230 | Security And Tactical Vehicles.. | .Volume 1-27 |
| 6 | 02 | 03 | 823990 | Items Less Than \$5 Million. | ..Volume 1-33 |
| 7 | 02 | 04 | 824010 | FIRE FIGHTING/CRASH RESCUE VEHICLES.. | . Volume 1-41 |
| 8 | 02 | 05 | 825990 | Items Less Than \$5 Million. | ..Volume 1-47 |
| 9 | 02 | 06 | 826210 | Runway Snow Remov \& Cleaning Equip..... | .Volume 1-53 |
| 10 | 02 | 06 | 826990 | Items Less Than \$5 Million.. | ..Volume 1-59 |

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Appropriation 3080F: Other Procurement, Air Force

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
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| 12 | 03 | 01 | 831010 | Comsec Equipment. | Volume 1-73 |
| 13 | 03 | 01 | 831970 | Modifications (COMSEC). | .Volume 1-89 |
| 14 | 03 | 02 | 832060 | Intelligence Training Equipment. | ..Volume 1-93 |
| 15 | 03 | 02 | 832070 | Intelligence Comm Equipment... | ..Volume 1-97 |
| 16 | 03 | 03 | 833010 | Air Traffic Control \& Landing Sys.. | Volume 1-111 |
| 17 | 03 | 03 | 833020 | National Airspace System. | Volume 1-125 |
| 18 | 03 | 03 | 833030 | Battle Control System - Fixed. | Volume 1-139 |
| 19 | 03 | 03 | 833040 | Theater Air Control Sys Improvements. | Volume 1-143 |
| 20 | 03 | 03 | 833070 | Weather Observation Forecast. | Volume 1-149 |
| 21 | 03 | 03 | 833140 | Strategic Command And Control. | Volume 1-163 |
| 22 | 03 | 03 | 833160 | Cheyenne Mountain Complex. | Volume 1-175 |
| 23 | 03 | 03 | 833170 | Mission Planning Systems. | ...Volume 1-185 |
| 24 | 03 | 03 | 833440 | Drug Interdiction Spt.. | ..Volume 1-191 |
| 25 | 03 | 03 | 833560 | Integrated Strat Plan \& Analy Network (ISPAN). | Volume 1-193 |
| 26 | 03 | 04 | 834010 | General Information Technology. | Volume 1-197 |
| 27 | 03 | 04 | 834040 | AF Global Command \& Control Sys.............. | ...Volume 1-231 |

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## Appropriation 3080F: Other Procurement, Air Force



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## Appropriation 3080F: Other Procurement, Air Force

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| :---: | :---: | :---: | :---: | :---: | :---: |
| 46 | 03 | 06 | 836750 | Nudet Detection Sys Space.. | Volume 1-381 |
| 47 | 03 | 06 | 836760 | Af Satellite Control Network Space. | Volume 1-385 |
| 48 | 03 | 06 | 836770 | Spacelift Range System Space. | Volume 1-391 |
| 49 | 03 | 06 | 836780 | Milsatcom Space. | Volume 1-399 |
| 50 | 03 | 06 | 836790 | Space Mods Space.. | Volume 1-413 |
| 51 | 03 | 06 | 836810 | Counterspace System. | ..Volume 1-423 |
| 52 | 03 | 07 | 837100 | Tactical C-E Equipment. | Volume 1-427 |
| 53 | 03 | 07 | 837190 | Radio Equipment. | ..Volume 1-451 |
| 54 | 03 | 07 | 837240 | CCTV/Audiovisual Equipment.. | Volume 1-457 |
| 55 | 03 | 07 | 837300 | Base Comm Infrastructure. | ..Volume 1-461 |
| 56 | 03 | 08 | 838010 | Comm Elect Mods.. | .Volume 1-485 |

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| :---: | :---: | :---: | :---: | :---: | :---: |
| 57 | 04 | 02 | 842140 | Night Vision Go | Volume 1-529 |
| 58 | 04 | 02 | 842990 | Items Less Than | .Volume 1-535 |

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| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
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| 59 | 04 | 03 | 843050 | Mechanized Material Handling Equip. | Volume 1-539 |
| 60 | 04 | 05 | 845010 | Base Procured Equipment. | Volume 1-543 |
| 61 | 04 | 05 | 845100 | ENGINEERING AND EOD EQUIPMENT.. | Volume 1-547 |
| 62 | 04 | 05 | 845380 | Productivity Capital Investment. | ...Volume 1-551 |
| 63 | 04 | 05 | 845420 | Mobility Equipment. | Volume 1-555 |
| 64 | 04 | 05 | 845990 | Items Less Than \$5 Million. | Volume 1-559 |
| 66 | 04 | 06 | 846070 | DARP RC135. | Volume 1-563 |
| 67 | 04 | 06 | 846080 | DCGS-AF. | .. Volume 1-565 |
| 69 | 04 | 06 | 846510 | Special Update Program. | ...Volume 1-591 |
| 70 | 04 | 06 | 846570 | Defense Space Reconnaissance Prog.... | ...Volume 1-593 |

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| :--- | :--- | :--- | :--- | :--- |
| $72-73$ | 05 | 01 | 861900 | Spares and Repair Parts...................................................................................................... Volume 1 - 595 |

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| AFNET | 835080 | 40 | 03 |  | ..Volume 1-333 |
| Af Satellite Control Network Space | 836760 | 47 | 03 | 06. | Volume 1-385 |
| Air \& Space Operations Ctr-WPN SYS | 834530 | 37 | 03 | 04. | .. Volume 1-305 |
| Air Force Physical Security System | 834130 | 29 | 03 | 04. | Volume 1-241 |
| Air Operations Center (AOC) 10.2 | 834560 | 38 | 03 | 03. | Volume 1-313 |
| Air Traffic Control \& Landing Sys | 833010 | 16 | 03 | 03. | Volume 1-111 |
| Base Comm Infrastructure | 837300 | 55 | 03 | 07. | .. Volume 1-461 |
| Base Procured Equipment | 845010 | 60 | 04 | 05. | Volume 1-543 |
| Battle Control System - Fixed | 833030 | 18 | 03 |  | ..Volume 1-139 |
| C3 Countermeasures | 834320 | 33 | 03 | 04. | ..Volume 1-277 |
| CCTV/Audiovisual Equipment | 837240 | 54 | 03 | 07. | Volume 1-457 |
| Cap Vehicles | 822910 | 3 | 02 | 02. | ....Volume 1-13 |
| Cheyenne Mountain Complex | 833160 | 22 | 03 | 03. | .. Volume 1-175 |
| Combat Training Ranges | 834190 | 30 | 03 | 04. | .. Volume 1-253 |
| Comm Elect Mods | 838010 | 56 | 03 | 08.... | .. Volume 1-485 |
| Comsec Equipment | 831010 | 12 | 03 | 01. | ....Volume 1-73 |

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| DARP RC135 | 846070 | 66 | 04 | 06................. Volume 1-563 |
| DCGS-AF | 846080 | 67 | 04 | 06.................Volume 1-565 |
| Defense Enterprise Accounting and Mgmt System | 834470 | 35 | 03 | 06................. Volume 1-293 |
| Defense Space Reconnaissance Prog. | 846570 | 70 | 04 | 06................. Volume 1-593 |
| Drug Interdiction Spt | 833440 | 24 | 03 | 03.................Volume 1-191 |
| ENGINEERING AND EOD EQUIPMENT | 845100 | 61 | 04 | 05.................Volume 1-547 |
| FIRE FIGHTING/CRASH RESCUE VEHICLES | 824010 | 7 | 02 | 04...................Volume 1-41 |
| Family of Beyond Line-of-Sight Terminals | 836700 | 43 | 03 | 06................. Volume 1-361 |
| GCSS-AF Fos | 834430 | 34 | 03 | 04.................Volume 1-285 |
| General Information Technology | 834010 | 26 | 03 | 04.................Volume 1-197 |
| Information Transport Systems | 835060 | 39 | 03 | 05................. Volume 1-321 |
| Integrated Strat Plan \& Analy Network (ISPAN) | 833560 | 25 | 03 | 03................. Volume 1-193 |
| Intelligence Comm Equipment | 832070 | 15 | 03 | 02...................Volume 1-97 |
| Intelligence Training Equipment | 832060 | 14 | 03 | 02.................. Volume 1-93 |
| Items Less Than \$5 Million | 822990 | 4 | 02 | 02...................Volume 1-17 |
| Items Less Than \$5 Million | 823990 | 6 | 02 | 03.................. Volume 1-33 |
| Items Less Than \$5 Million | 825990 | 8 | 02 | 05.................. Volume 1-47 |
| Items Less Than \$5 Million | 826990 | 10 | 02 | 06...................Volume 1-59 |
| Items Less Than \$5 Million | 842990 | 58 | 04 | 02.................Volume 1-535 |

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| Items Less Than \$5 Million | 845990 | 64 | 04 |  | Volume 1-559 |
| Joint Communications Support Element (JCSE) | 835110 | 41 | 03 | 05... | Volume 1-351 |
| Mechanized Material Handling Equip | 843050 | 59 | 04 | 03.. | Volume 1-539 |
| Medium Tactical Vehicle | 822230 | 2 | 02 |  | .. Volume 1-7 |
| Milsatcom Space | 836780 | 49 | 03 |  | Volume 1-399 |
| Minimum Essential Emergency Communications Network | 834210 | 31 | 03 | 04.. | Volume 1-267 |
| Mission Planning Systems | 833170 | 23 | 03 | 03.. | Volume 1-185 |
| Mobility Command and Control | 834070 | 28 | 03 | 04. | Volume 1-235 |
| Mobility Equipment | 845420 | 63 | 04 |  | Volume 1-555 |
| Modifications (COMSEC) | 831970 | 13 | 03 | 01.. | Volume 1-89 |
| National Airspace System | 833020 | 17 | 03 | 03. | Volume 1-125 |
| Navstar GPS Space | 836730 | 45 | 03 | 06.. | Volume 1-377 |
| Night Vision Goggles | 842140 | 57 | 04 |  | Volume 1-529 |
| Nudet Detection Sys Space | 836750 | 46 | 03 | 06.. | Volume 1-381 |
| Passenger Carrying Vehicles | 821800 | 1 | 02 | 01.. | ...Volume 1-1 |
| Productivity Capital Investment | 845380 | 62 | 04 | 05.. | Volume 1-551 |
| Radio Equipment | 837190 | 53 | 03 | 07.. | Volume 1-451 |
| Runway Snow Remov \& Cleaning Equip | 826210 | 9 | 02 | 06... | ... Volume 1-53 |
| Security And Tactical Vehicles | 823230 | 5 | 02 | 03... | ... Volume 1-27 |
| Space Based Ir Sensor Pgm Space | 836720 | 44 | 03 | 06... | Volume 1-365 |

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| :---: | :---: | :---: | :---: | :---: | :---: |
| Space Mods Space | 836790 | 50 | 03 | 06. | Volume 1-413 |
| Spacelift Range System Space | 836770 | 48 | 03 |  | Volume 1-391 |
| Spares and Repair Parts | 861900 | 72-73 | 05 | 01. | Volume 1-595 |
| Special Update Program | 846510 | 69 | 04 | 06. | Volume 1-591 |
| Strategic Command And Control | 833140 | 21 | 03 | 03. | Volume 1-163 |
| Tactical C-E Equipment | 837100 | 52 | 03 | 07. | Volume 1-427 |
| Theater Air Control Sys Improvements | 833040 | 19 | 03 | 03. | Volume 1-143 |
| Theater Battle Mgt C2 System | 834520 | 36 | 03 | 04. | Volume 1-299 |
| USCENTCOM | 835140 | 42 | 03 |  | Volume 1-355 |
| Weather Observation Forecast | 833070 | 20 | 03 | 03. | Volume 1-149 |
| Wide Area Surveillance (WAS) | 834240 | 32 | 03 | 04. | Volume 1-273 |

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(Listing by Model)

## Lookup Matrix by Model

| Model: | E-3 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | C2ISR Tactical Data Link |  |  |
| Item Number |  | Item Title |  |  | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
| C2ISR1 |  | C2ISR Tactical Data Link |  |  | Yes |
| Model: | E-8C |  |  |  |  |
| Modification P-40a Aggregated Items Title: |  |  | C2ISR Tactical Data Link |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | C2ISR1 | C2ISR Tactical Data Link |  |  | Yes |


| Model: | RC-135 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | C2ISR Tactical Data Link |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | C2ISR1 | C2ISR Tactical Data Link |  | Yes |


| Model: | AOC |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | C2ISR Tactical Data Link |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | C2ISR1 | C2ISR Tactical Data Link |  |  | Yes |

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| Model: | IBS |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Integrated Broadcast Service (IBS) |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | Mod 1 IBS | Mod 1 IBS |  | No |
|  | Mod 2 | Mod 2 |  | No |
|  | Mod 3 | Mod 3 |  | No |
|  | Mod 4 | Mod 4 |  | No |
|  | Mod 5 | Mod 5 |  | No |


| Model: | 0301592F |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Military Intelligence Program (MIP) Activities |  |
|  | tem Num |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | MIP1 | JWICS |  | No |


| Model: | NA |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Network-Centric Collaborative Targeting |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | NCCT1 | Replacement of Ground Stations |  |  | No |
| Modification P-40a Aggregated Items Title: Submarine-Launched Ballistic Missile (SLBM) Radar Warning System |  |  |  |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |

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| Model: | NA |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Submarine-Launched Ballistic Missile (SLBM) Radar Warning System |  |
| Item Number |  | Item Title |  | Applies to Multiple Models |
|  | 3A PAVE PAWS Modifications | P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End) |  | No |
| Modification P-40a Aggregated Items Title: Ballistic Missile Early Warning System (BMEWS) |  |  |  |  |
| Item Number |  | Item Title |  | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
| COBRA DANE Radar Mod |  | COBRA DANE Radar Mod |  | No |
| P-3A BMEWS Modification |  | BMEWS Modification |  | No |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  | Modification Title |  | Applies to Multiple Models |
|  | 1 | Mod HEMP |  | No |
|  | 1 | PAVE PAWS Block 00 Update |  | No |
|  | 3 | P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End) |  | No |
|  |  |  |  |  |
| Model: ${ }^{\text {BCS-ModernizationUpgrades }}$ |  |  |  |  |
| Modification P-40a Aggregated Items Title: ${ }^{\text {PCSMU }}$ |  |  |  |  |
| Item Number |  | Item Title |  | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | BCSMU-1 | BCS MOD UPGRADES |  | No |

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| Model: | TACSI1 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Control and Reporting Center (CRC) |  |
| Item Number |  | Item Title |  | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
| TACSI1 |  | THEATER AIR CONTROL SYSTEM IMPROVEMENT MOD |  | No |
| Model: | NWM |  |  |  |
| Modification P-40a Aggregated Items Title: |  |  | WOF |  |
| Item Number |  | Item Title |  | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
| WOF2 |  | NWM |  | No |
| Model: | WDA |  |  |  |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  | Modification Title |  | Applies to Multiple Models |
|  | 1 | WDA |  | No |


| 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 |
| Modification P-40a Aggregated Items Title: |  |  |  |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |

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| CheyenneMountainComplex |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: NCMC - TW/AA System |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| 001 | Core C2 Enterprise Network Infrastructure and Mission Equipment |  | No |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
| 001 | Mobile Consolidated Command Center Upgrade Block 00 |  | No |


| Model: | NORADCheyenneMountainComplex |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
|  | 002 | NORAD Cheyenne Mountain Complex Block 00 |  | No |


| Model: | Bases |  |  |
| :---: | :--- | :--- | :--- |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title |  |
|  | 1 | Base Physical Security Systems |  |


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

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| Model: | Combat Training Range |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Combat Training Range Equipment |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | CTR02 | Combat Training Ranges UMTE |  |  | No |
|  | CTR03 | Mini-Mute Mod (CEAR) |  |  | No |


| Model: | PRC2 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | TBMC2 Mods |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | PRC2 | PRC2 |  |  | No |


| Model: | UC2 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | TBMC2 Mods |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | UC2 | UC2 |  |  | No |


| Model: | BITI |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | AIR FORCE COMMUNICATIONS (AIRCOM) |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | I Modification 1 | BITI Mod/Recap |  | No |

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| Model: | ACD-AFINC-CSCS |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: AF Network Ops and Command Comms |  |  |  |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | NET Ops and mmand Comms | AFNET Ops and | Command Comms | No |


| ACD |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 1 | ACD WS 0208088F | No |


| Model: | AFINC-CSCS-WS |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Mod | fication Number |  | Modification Title | Applies to Multiple Models |
|  | 1 | AFINC/CSCS WS 0303089 |  | No |


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


| Model: | Air Force Satellite Control Network |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  | AIR FORCE SATELLITE CONTROL NETWORK SPACE MODS |  |
|  | tem Number | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |

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| Model: | Air Force Satellite Control Network |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | AIR FORCE SATELLITE CONTROL NETWORK SPACE MODS |  |
|  | Item Number |  | Item Title | Applies to Multiple Models |
|  | 01-RBC | Remote Trackin | Station Block Change (RBC) | No |
|  | 02-AFSCN | Air Force Satellit | e Control Network Recapitalization Projects | No |


| Model: | Spacelift Range System Space |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Spacelift Range System Space |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 01-MEN | Modernization of | Eastern Range Network (MEN) |  | No |
|  | 02-WMN | Western Range | Modernization of Network (WMN) |  | No |
|  | 03-RCDM | Range Command | d Destruct Modernization (RCDM) |  | No |
|  | 04-SLRS | Spacelift Range | System Recapitalization Projects |  | No |




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| GEODSS |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  | Space Situation Awareness Operations |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| P-3A GEODSS | P-3A GEODSS |  | No |


| Model: | AN/FPS-117 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Atmospheric Early Warning System |  |  |
|  | Item Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | SC3I AEWS -PS-117 EPRP | SC3I AEWS - FPS-117 EPRP |  |  | No |


| Model: | WSR-88D |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Weather Service |
|  | tem Number |  | Item Title |
| Uncateg | gorized |  |  |
|  | 00-001 | Next Generation | Radar (NEXRAD) WSR-88D Upgrades |
|  | 13-009 | WSR-88D Next | Generation Radar (NEXRAD) Service Life Extension |
|  | 14-001 | Next Generation | Radar (NEXRAD) WSR-88D IT Refresh |


| Model: | Weather Data Analysis |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Weather Service |  |  |  |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 07-001 | Numerical Weat | her Modeling | No |

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| Model: | Weather Data Analysis |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Weather Service |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
|  | 98-001 | Weather Data A | nalysis |  | No |


| Model: | AN/FMQ-7 |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Weather Service |
|  | tem Number |  | Item Title |
| Uncategorized |  |  |  |
|  | 08-001 | AN/FMQ-7 Solar Optical Observing Network (SOON) |  |


| Model: | AN/UMQ-13 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Weather Service |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 09-001 | AN/UMQ-13 MARK IV-B |  |  | No |



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| Model: | RSTN |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Weather Service |  |  |  |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 14-007 | Radio Solar Tel | scope Network Service Life Extension Program (RSTN SLEP) | Yes |


| Model: | AN/FRR-95 (RIMS) \& A/F24U-1 (SRS) |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Weather Service |  |  |  |
|  | tem Number |  | Item Title |
| Uncategorized |  |  |  |
|  | 14-007 | Radio Solar Telescope Network Service Life Extension Program (RSTN SLEP) |  |


| Model: | AN/FMQ-23 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Weather Service |  |  |  |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 16-002 | AN/FMQ-23 Refresh |  |  | No |


| Model: | Weather Service |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Weather Service |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | -3A Low Cost Modifications | P-3A Low Cost | Modifications |  | No |

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| Joint Environmental Tool Kit |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 1 | Joint Environmental Toolkit (JET) Refresh | No |


| Model: | ATCALS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Air Traffic Control, Approach, and Landing System (ATCALS) |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
| P-3A | Low Cost Mods | ATCALS Low C | ost Mods (PE 0305114F) |  | No |


| GRN-29 |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 1 | ATCALS AN/GRN-29 Instrument Landing System (PE 0305114F) | No |


| Model: | TRN-48 |  |  |
| :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |
| Modi | fication Number | Modification Title | Applies to Multiple Models |
|  | 2 | Deployable TACAN Retrofit/Refurbishment | No |


| Model: | NASMod-1 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
|  | 1 | National Airspace System (NAS) Mod 1 |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • President's Budget Submission FY 2017 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

| Model: | Raytheon |  |  |
| :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
|  | 2 | BMEWS DP/SP Suite Replacement | No |
| Model: Exelis |  |  |  |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
|  | 2 | P-3A PARCS Modification (formerly PARCS PARSS) | No |
|  | 4 | PARCS Block 00 Update | No |



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Exhibit P-1M, Procurement Programs - Modification Summary

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| Model: | 0305208F |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  | Modification Title |  | Applies to Multiple Models |
|  | 4 | Multi-Intelligence-1 (Multi-INT) |  | No |
|  | 6 | DCGS Reference Imagery Transition (DRT) |  | No |


| Model: | DCGS |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
|  | 2 | Geoint Transformation-1 (GEOINT) |  | No |


| No text provided. |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 5 | Signal Intelligence Transformation-1 (SIGINT) | No |

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Air Force • President's Budget Submission FY 2017 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

## Funding (\$ M)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit P-40a |  |  |  |  |  |  |  |  |  |  |
| C2ISR Tactical Data Link | - | - | 2.246 | - | - | - | - | - | - | - |
| Mod 1 IBS | 2.616 | 2.642 | 1.548 | 3.741 | - | 3.741 | 3.354 | 2.500 | 2.573 | 2.622 |
| Mod 2 | 3.108 | 3.167 | 3.167 | 3.167 | - | 3.167 | 3.133 | 3.167 | 3.262 | 3.324 |
| Mod 3 | 1.274 | 1.298 | 0.816 | 1.298 | - | 1.298 | 1.300 | 1.298 | 1.337 | 1.362 |
| Mod 4 | 2.063 | 2.102 | 2.102 | 2.370 | - | 2.370 | 2.276 | 2.102 | 2.165 | 2.206 |
| Mod 5 | 1.060 | 1.873 | 1.873 | 1.873 | - | 1.873 | 1.873 | 1.873 | 1.929 | 1.966 |
| JWICS | - | 3.920 | 2.900 | 4.520 | 0.000 | 4.520 | 4.390 | 4.070 | 4.140 | 4.210 |
| Replacement of Ground Stations | - | 2.970 | 2.420 | 2.580 | 0.000 | 2.580 | 3.280 | 3.090 | 3.140 | 3.200 |
| BCS MOD UPGRADES | - | 1.202 | 1.582 | 3.279 | - | 3.279 | 0.500 | - | - | - |
| THEATER AIR CONTROL SYSTEM IMPROVEMENT MOD | - | 35.230 | 18.471 | 0.850 | - | 0.850 | - | - | - | - |
| NWM | - | 1.302 | 4.583 | 4.228 | - | 4.228 | 4.046 | 4.234 | 4.310 | 4.353 |
| Mobile Consolidated Command Center Modification | - | 20.751 | 9.485 | 0.573 | - | 0.573 | 7.188 | 7.908 | 8.047 | 8.192 |
| Core C2 Enterprise Network Infrastructure and Mission Equipment | - | 14.550 | 26.701 | 0.750 | - | 0.750 | 22.609 | 22.972 | 21.841 | 22.233 |
| Combat Training Ranges Joint Threat Emitter | - | 2.000 | 3.651 | - | - | - | 3.184 | 3.326 | - | - |
| Combat Training Ranges UMTE | - | - | 7.000 | 3.900 | - | 3.900 | - | - | - | - |
| Mini-Mute Mod (CEAR) | - | - | - | - | - | - | 5.300 | 7.000 | - | - |
| PRC2 | - | 0.995 | 1.255 | 1.252 | 0.000 | 1.252 | 1.274 | 1.297 | 1.320 | 1.344 |
| UC2 | - | 3.825 | 3.079 | 3.293 | 0.000 | 3.293 | 3.352 | 3.410 | 3.472 | 3.535 |
| BITI Mod/Recaps | - | - | - | - | - | - | 56.710 | 58.750 | 59.787 | 60.863 |

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Exhibit P-1M, Procurement Programs - Modification Summary

## UNCLASSIFIED

Air Force • President's Budget Submission FY 2017 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AFNET Ops and Command Comms | - | - | 49.049 | - | - | - | - | - | - | - |
| Remote Tracking Station Block Change (RBC) | 117.684 | 34.149 | - | - | - | - | - | 0.000 | 0.000 | 0.000 |
| Air Force Satellite Control Network Recapitalization Projects | 0.000 | 3.131 | - | - | - | - | - | - | - | - |
| Modernization of Eastern Range Network (MEN) | 45.585 | 2.444 | - | - | - | - | - | - | - | - |
| Western Range Modernization of Network (WMN) | 30.000 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Range Command Destruct Modernization (RCDM) | 35.567 | 15.581 | - | - | - | - | - | - | - | - |
| Spacelift Range System Recapitalization Projects | 46.971 | 2.612 | - | - | - | - | - | - | - | - |
| NAVSTAR GPS-OCS COTS UPGRADE | 9.774 | 12.656 | - | - | - | - | - | - | - | - |
| P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End) | - | 9.184 | - | - | - | - | - | - | - | - |
| P-3A GEODSS | - | 3.124 | - | - | - | - | - | - | - | - |
| SC3I AEWS - FPS-117 EPRP | 114.167 | 3.970 | - | - | - | - | - | - | - | - |
| Next Generation Radar (NEXRAD) WSR-88D Upgrades | 1.007 | - | 0.017 | 0.017 | - | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 |
| Numerical Weather Modeling | 3.526 | 4.549 | 1.320 | 1.000 | - | 1.000 | 1.000 | 1.036 | 1.054 | 1.135 |
| AN/FMQ-7 Solar Optical Observing Network (SOON) | - | - | - | 1.000 | - | 1.000 | - | - | - | - |
| AN/UMQ-13 MARK IV-B | 3.756 | 3.000 | - | 1.000 | - | 1.000 | 1.500 | 1.500 | 1.527 | 1.542 |
| AN/TMQ-53 Tactical Meteorological Observing System (TMOS) | 0.822 | 0.000 | - | 0.000 | - | 0.000 | - | - | - | - |
| WSR-88D Next Generation Radar (NEXRAD) Service Life Extension | - | 2.073 | 2.369 | 1.932 | - | 1.932 | 3.371 | 1.784 | 1.654 | 1.862 |
| Next Generation Radar (NEXRAD) WSR-88D IT Refresh | - | - | 0.366 | 0.172 | - | 0.172 | 0.344 | 0.218 | 0.385 | 0.127 |
| Radio Solar Telescope Network Service Life Extension Program (RSTN SLEP) | - | - | 3.100 | - | - | - | 0.800 | - | - | - |
| AN/FMQ-23 Refresh | - | - | - | 0.347 | - | 0.347 | - | 1.423 | 1.447 | 1.462 |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • President's Budget Submission FY 2017 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Weather Data Analysis | 3.679 | 2.453 | 1.320 | 1.000 | - | 1.000 | 1.000 | 1.036 | 1.054 | 1.135 |
| P-3A Low Cost Modifications | 0.500 | - | - | - | - | - | - | - | - | - |
| ATCALS Low Cost Mods (PE 0305114F) | 1.698 | 1.099 | 0.761 | 1.402 | - | 1.402 | 1.345 | 1.209 | 1.229 | 1.250 |
| COBRA DANE Radar Mod | - | - | 0.150 | 0.100 | - | 0.100 | - | - | - | - |
| BMEWS Modification | - | 3.565 | 0.100 | 0.100 | - | 0.100 | 25.436 | 22.859 | 23.262 | 23.681 |
| Network Communications | - | 55.831 | - | - | - | - | - | - | - | - |
| Data Links | - | 50.338 | - | - | - | - | - | - | - | - |
| Geospatial Intelligence | - | 40.954 | - | - | - | - | - | - | - | - |
| Sensor Integration-1 | - | - | 16.800 | 4.185 | 0.000 | 4.185 | 15.685 | 6.196 | 15.053 | 16.170 |
| System Release (SR) 3.0 | - | - | 9.593 | 2.091 | - | 2.091 | 0.276 | 0.000 | 13.562 | 16.131 |
| System Release - 1 | - | 34.433 | - | - | - | - | - | - | - | - |
| Exhibit P-3a |  |  |  |  |  |  |  |  |  |  |
| WDA | - | 5.786 | 8.825 | 10.788 | 0.000 | 10.788 | 13.790 | 11.215 | 11.708 | 12.829 |
| Mobile Consolidated Command Center Upgrade Block 00 | - | 0.000 | 0.000 | 7.062 | 0.000 | 7.062 | 0.583 | 0.000 | 0.000 | 0.000 |
| NORAD Cheyenne Mountain Complex Block 00 | - | 0.000 | 0.000 | 16.233 | 0.000 | 16.233 | 0.750 | 0.000 | 0.000 | 0.000 |
| Base Physical Security Systems | 35.727 | 26.157 | 75.849 | 84.482 | 0.000 | 84.482 | 53.768 | 79.674 | 75.650 | 49.740 |
| ACD WS 0208088F | - | 0.000 | 0.000 | 7.736 | 0.000 | 7.736 | 21.533 | 21.931 | 22.330 | 22.731 |
| AFINC/CSCS WS 0303089 | - | 0.000 | 17.684 | 105.586 | 0.000 | 105.586 | 120.753 | 99.385 | 77.331 | 78.650 |
| AFNET | - | 90.487 | 29.448 | 28.465 | 0.000 | 28.465 | 38.905 | 40.192 | 8.125 | 7.810 |
| Joint Environmental Toolkit (JET) Refresh | - | - | 0.000 | 2.178 | 0.000 | 2.178 | 2.026 | 1.823 | 1.856 | 1.875 |
| ATCALS AN/GRN-29 Instrument Landing System (PE 0305114F) | 24.476 | 13.427 | 3.219 | 7.121 | 0.000 | 7.121 | 3.996 | 0.000 | 0.000 | - |
| Deployable TACAN Retrofit/Refurbishment | - | 0.000 | 0.000 | 0.000 | 3.800 | 3.800 | 0.000 | 0.000 | 0.000 | 0.000 |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • President's Budget Submission FY 2017 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2015 | FY 2016 | $\begin{aligned} & \text { FY } 2017 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OcO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { Total } \end{aligned}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| National Airspace System (NAS) Mod 1 | - | - | - | 1.519 | 0.000 | 1.519 | 7.435 | 3.861 | 5.814 | 5.918 |
| Mod HEMP | 0.000 | 0.000 | 49.000 | 18.943 | 0.000 | 18.943 | 0.000 | 0.000 | 0.000 | 0.000 |
| BMEWS DP/SP Suite Replacement | 11.255 | 26.361 | 9.858 | 17.486 | 0.000 | 17.486 | 0.000 | 0.000 | 0.000 | 0.000 |
| PAVE PAWS Block 00 Update | - | 0.000 | 0.000 | 4.690 | 0.000 | 4.690 | 0.600 | 0.000 | 0.000 | 0.000 |
| P-3A PARCS Modification (formerly PARCS PARSS) | 0.000 | 0.000 | 0.000 | 0.750 | 0.000 | 0.750 | 8.763 | 9.102 | 8.148 | 8.294 |
| P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End) | 0.000 | 0.000 | 0.000 | 0.300 | 0.000 | 0.300 | 8.913 | 9.103 | 8.148 | 8.295 |
| PARCS Block 00 Update | - | 0.000 | 0.000 | 4.240 | 0.000 | 4.240 | 0.750 | 0.000 | 0.000 | 0.000 |
| Geospatial Intelligence Bulk Release (GB) 4.1 | - | 0.000 | 0.293 | 16.846 | 0.800 | 17.646 | 19.436 | 31.131 | 15.178 | 16.033 |
| Geoint Transformation-1 (GEOINT) | - | 0.000 | 12.067 | 11.192 | 0.000 | 11.192 | 12.100 | 12.878 | 15.236 | 16.754 |
| Network Infrastructure Transformation-1 | - | 0.000 | 51.194 | 45.415 | 0.000 | 45.415 | 34.886 | 35.541 | 21.054 | 16.726 |
| Multi-Intelligence-1 (Multi-INT) | - | 0.000 | 24.000 | 23.388 | 0.000 | 23.388 | 29.168 | 15.390 | 9.295 | 15.948 |
| Signal Intelligence Transformation-1 (SIGINT) | - | 0.000 | 7.600 | 18.057 | 0.000 | 18.057 | 7.682 | 0.000 | 15.086 | 16.736 |
| DCGS Reference Imagery Transition (DRT) | - | 0.000 | 23.655 | 18.160 | 0.000 | 18.160 | 25.615 | 34.937 | 23.770 | 16.043 |
| Totals (Total Obligation Authority) |  |  |  |  |  |  |  |  |  |  |
| Total Obligation Authority | 496.315 | 545.191 | 490.516 | 502.657 | 4.600 | 507.257 | 585.995 | 570.438 | 496.296 | 478.304 |

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Exhibit P-1M, Procurement Programs - Modification Summary

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## ACRONYMS

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

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| FOT\&E | - Follow-on Test and Evaluation |
| :--- | :--- |
| FOC | - Fully Operational Capability |
| FLTS | - Flight Line Test Set |
| FPIF | - Fixed Price Incentive Firm |
| FPIS | - Fixed Price Incentive Fee, Successive Targets |
| FY | - Fiscal Year |
| GANS | - Global Access Navigation \& Safety |
| GATM | - Global Air Traffic Management |
| GFE | - Government Furnished Equipment |
| GFP | - Government Furnished Property |
| GPS | - Global Positioning System |
| GSE | - Iround Support Equipment |
| ICS | - Interim Contractor Support |
| IOC | - Increased Perating Capability |
| IPE | - Joint Precision Approach Engine |
| JPALS | - Low Altitude Navigation and Targeting System Infra Red System for Night |
| LANTIRN | - Major Automated Information System Program |
| MAIS | - Major Defense Acquisition Program |
| MDAP | - Mobile Electronic Test Stations |
| METS | - Multiyear Procurement |
| MYP | - Multi-Stage Improvement Program |
| MSIP | - Navigation Warfare |
| NAVWAR | - Not Mission Capable Rate |
| NMC Rate | - Operational Flight Program |
| OFP | - Operational Test and Evaluation |
| OT\&E | Other War Reserve Material |
| OWRM | - Priced Aerospace Ground Equipment List |
| PAGEL | - President's Budget |
| PB | - Peculiar Ground Support Equipment |
| PGSE | - 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 |  |

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| PY | - Prior Year |
| :--- | :--- |
| R\&M | - Reliability and Maintainability |
| RAA | - Required Asset Availability |
| RDT\&E | - Research, Development, Test and Evaluation |
| RWR | - Radar Warning Receiver |
| ROM | - Rough Order of Magnitude |
| SAM | - Surface-to-Air Missile |
| SS | - Sole Source |
| SOF | - Special Operation Force |
| TAF | - Tactical Air Force |
| TCAS | - Traffic Collision Alert and Avoidance System |
| TEWS | - TEWS Intectronedic Warfare System |
| TISS | - Total Obligation Authority |
| TOA | - Working Capital Fund |
| WCF | - War Reserve Material |
| WRM | - Weapon System Trainer |
| WST | - Unmanned Aerial Vehicle |
| UAV | - Ultra High Frequency |
| UHF | - United States of America |
| USA | - Extensible Markup Language |
| XML |  |

## BASE / ORGANIZATIONAL ACRONYMNS

| 11 WING | - 11 th Support Wing |
| :--- | :--- |
| 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 |
| AFNEWS | - Air Force Information \& News Service Center |
| AFOSI | - Air Force Office of Special Investigation |
| AFOTEC | - Air Force Operational Test \& Evaluation Center |
| AFPC | - Air Force Personnel Center |
| AFPSL | - AF Primary Standards Lab |
| AFR | - Air Force Reserve |
| AFSOC | -AF Special Operations Command |
| AFSPC | - Air Force Space Command |
| AIA | - Air Intelligence Agency |
| ALC | - Air Logistics Center |
| AMC | - Air Mobility Command |
| ANG | - Air National Guard |
| ASC | - Aeronautical Systems Center |
| AETC | - Air Education Training Command |
| AU | - Air University |
| AWS | - Air Weather Service |
| CIA | - Central Intelligence Agency |
| DGSC | - Defense General Support Center |
| DLA | - Defense Logistics Center |
| DOE | - Department of Energy |
| DPSC | - Defense Personnel Support Center |
| DSCC | - Defense Supply Center, Columbus |
| DTIC | - Defense Technical Information Center |
| ER | - Eastern Range |
| ESC | - Electronic Systems Center |
| FAA | - Federal Aviation Agency |
| FBI | - Federal Bureau of Investigation |
| GSA | - General Services Administration |
| JCS | - Joint Chiefs of Staff |
| NATO | - North Atlantic Treaty Organization |
| OSD | - Office of the Secretary of Defense |
| PACAF | - Pacific Air Forces |
| USAF | - United States Air Force |
| USAFA | - United States Air Force Academy |
|  |  |

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## UNCLASSIFIED

| USAFE | - United States Air Force Europe |
| :--- | :--- |
| USCENTCOM | - United States Central Command |
| USEUCOM | - United States European Command |
| USMC | - United States Marine Corps |
| USSTRATCOM | - United States Strategic Command |
| WP AFB | - Wright-Patterson AFB, OH |
|  |  |
| 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 | - Letter |
| Letter | - Labor-hour |
| LH | - Military Interdepartmental Purchase Request |
| MIPR | - Military Interdepartmental Purchase Request - Competitive |
| MIPR-C | - Military Interdepartmental Purchase Request - Option |
| MIPR-OPT | - Military Interdepartmental Purchase Request - Other |
| MIPR-OTH | - Military Interdepartmental Purchase Request - Sole Source |
| MPR-SS | - Option |
| OPT | - Other |
| OTH | - Project Order |
| PO | - Requisition |
| REQN | - Sole Source |
| SS | - Time and Materials |
| T\&M | - Undefinitized Contract Action |
| UCA | - Work Project |
| WP |  |

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## UNCLASSIFIED

| CONTRACTED BY ACRONYMNS |  |
| :--- | :--- |
| 11 WING | - 11 th 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 |
| 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 | - Electronic Systems Center, Hanscom AFB, MA |
| HSC | - Human Services Center, Brook AFB, TX |
| OC-ALC | - Oklahoma City Air Logistics Center, Tinker AFB, OK |
| OO-ALC | - Space Air Logistics Center, Hill AFB, UT |
| SMC | - US Strategicsile Systems Centend, Offutt AFB, Nngeles AFB, CA |
| US STRATCOM | - Washington Area Contracting Center, Washington DC |
| WACC | - Western Range, Vandenberg AFB, CA |
| WR | - Warner-Robins Air Logistics Center, Robins AFB, GA |
| WR-ALC | - Air Force Space Command, Peterson AFB, CO |
| AFSPC | - Headquarters, Air National Guard, Washington, DC |
| HQ ANG | - United States Air Force Europe, Ramstein AB, GE |
| USAFE | - United States Air Force Academy, Colorado Springs, CO |
| USAFA | - Standard Systems Group, Maxwell AFB-Gunter Annex, AL |
| SSG |  |

UNCLASSIFIED

## UNCLASSIFIED

IDENTIFICATION CODES

Code "A"
Code "B"
OBAN

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


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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 1: 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 6.528 | 8.834 | 14.437 | 2.003 | 16.440 | 14.645 | 14.831 | 14.716 | 14.398 | - | 90.392 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 6.528 | 8.834 | 14.437 | 2.003 | 16.440 | 14.645 | 14.831 | 14.716 | 14.398 | - | 90.392 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 6.528 | 8.834 | 14.437 | 2.003 | 16.440 | 14.645 | 14.831 | 14.716 | 14.398 | - | 90.392 |
| (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:

 needs commensurate with their design.
 Special Investigations (OSI) and a portion is procured as chase cars used to support U-2 aircraft operations.
 They are also used in the maintenance and flying operation areas to support aircraft sortie generation.
 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.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Program elements associated with this P-1 Line are: 0202834F, 0207142F, 0207597F, 0305202F, 0502834F,0502844F, 0702831F.

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| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A Pr |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS | de: N/A $\quad$ Item | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| AF | Quantity | 154 | 149 | 212 | 15 | 227 | 272 | 236 | 229 | 233 |
|  | Total Obligation Authority | 6.168 | 8.530 | 14.093 | 2.003 | 16.096 | 14.300 | 14.476 | 14.356 | 14.025 |
| AFNG | Quantity | 3 | 2 | 10 | - | 10 | 6 | 6 | 5 | 2 |
|  | Total Obligation Authority | 0.268 | 0.248 | 0.221 | - | 0.221 | 0.227 | 0.235 | 0.230 | 0.240 |
| AFR | Quantity | 4 | 2 | 4 | - | 4 | 1 | 1 | 1 | 1 |
|  | Total Obligation Authority | 0.091 | 0.056 | 0.123 | - | 0.123 | 0.118 | 0.120 | 0.130 | 0.133 |
| Total: <br> Secondary Distribution | Quantity | 161 | 153 | 226 | 15 | 241 | 279 | 243 | 235 | 236 |
|  | Total Obligation Authority | 6.528 | 8.834 | 14.437 | 2.003 | 16.440 | 14.645 | 14.831 | 14.716 | 14.398 |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line It | m MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| $\begin{gathered} \text { Exhibit } \\ \text { Type } \end{gathered}$ | Title* |  | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \hline \end{array}$ | 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 | - 16.528 | - 18.834 | - /14.437 | - 12.003 | - /16.440 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1. | - 16.528 | - 18.834 | - 114.437 | - 12.003 | - 116.440 |

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

## Justification:

FY17 procurement dollars in the amount of $\$ 14.437 \mathrm{M}$ will procure, but not be limited to, 226 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY17 OCO dollars in the amount of $\$ 2.003 \mathrm{M}$ will procure, but not limited to, 15 vehicles in support of Overseas Contingency Operations.

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <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 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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 Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BUS, 23 PAX SURREY <br> (2310-01-382-3919) | A |  | - |  | - | 87,118.00 | 2 | 0.174 | 88,718.00 | 1 | 0.089 | - | - | - | 99,000.00 | 1 | 0.099 | 99,000.00 | 1 | 0.099 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.174 |  | 1 | 0.089 |  | - | - |  | 1 | 0.099 |  | 1 | 0.099 |
| PMA OTHER GOVERNMENT costs | A |  | - | - | - | - | - | 0.011 | - | . | 0.011 | - | . | 0.008 | - | . | . | . | - | 0.008 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  |  | - |  | - | - |  | - | 0.011 |  | - | 0.008 |  | - | - |  | - | 0.008 |
| AFNG |  |  |  | - | - |  | - | 0.011 |  | - | - |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \text { SUB COMPACT } \\ & \text { SEDAN } \\ & (2310-01-434-2235) \end{aligned}$ | A |  | - | - | - | 19,572.00 | 14 | 0.274 | 22,097.00 | 11 | 0.243 | 24,097.00 | 30 | 0.723 | - | . | . | 24,097.00 | 30 | 0.723 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 14 | 0.274 |  | 11 | 0.243 |  | 30 | 0.723 |  | - | - |  | 30 | 0.723 |
| HYBRID SEDAN (2310-01-575-5380) | A |  | - |  | - | 22,321.00 | 2 | 0.045 | 22,215.00 | 4 | 0.089 | 24,215.00 | 21 | 0.509 | - | - | . | 24,215.00 | 21 | 0.509 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.045 |  | 4 | 0.089 |  | 21 | 0.509 |  | - | - |  | 21 | 0.509 |
| L.E. SEDAN, UNITED STATES (2310-01-018-6668) | A |  | - | - | - | 22,815.00 | 64 | 1.460 | 28,000.00 | 34 | 0.952 | 30,120.00 | 69 | 2.078 | - | . | . | 30,120.00 | 69 | 2.078 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 60 | 1.369 |  | 32 | 0.896 |  | 66 | 1.988 |  | - | - |  | 66 | 1.988 |
| AFR |  |  |  | - | - |  | 4 | 0.091 |  | 2 | 0.056 |  | 3 | 0.090 |  | - | - |  | 3 | 0.090 |
| $\begin{aligned} & \text { HI PERFORMANCE } \\ & \text { SEDAN } \\ & (2310-01-571-3859) \\ & \hline \end{aligned}$ | A |  | - | . | - | 33,033.00 | 2 | 0.066 | - | - | - | 33,033.00 | 1 | 0.033 | - | . | . | 33,033.00 | 1 | 0.033 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.066 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.033 |  | - | - |  | 1 | 0.033 |
| SEDAN, CMPT (2310-01-096-3343) | A |  | - | - | - | 18,155.00 | 6 | 0.109 | 20,083.00 | 14 | 0.281 | 22,083.00 | 26 | 0.574 | - | - | - | 22,083.00 | ${ }^{26}$ | 0.574 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 6 | 0.109 |  | 14 | 0.281 |  | 16 | 0.353 |  | - | - |  | 16 | 0.353 |
| AFNG |  |  |  | - | - |  | - | - |  | $\cdot$ | - |  | 10 | 0.221 |  | - | - |  | 10 | 0.221 |
| STN WGN CMPT CLII (2310-01-055-4948) | A |  | - | - | - | 21,152.00 | ${ }^{43}$ | 0.910 | 21,152.00 | ${ }^{43}$ | 0.910 | 23,171.00 | 4 | 0.093 | - | - | - | 23,171.00 | 4 | 0.093 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force | Date: February 2016 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 02$ / 1 | P-1 Line Item Number / Title: <br> $821800 /$ Passenger Carrying Vehicles | Aggregated Items Title: <br> Passenger Carrying Vehicles |

Remarks:
Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.
UNIT COSTS FOR FY17 ARE SUBJECT TO CHANGE.
 (A\&AS)

Footnotes:
${ }^{(1)}$ Only ANG requirement received.
Appropriation / Budget Activity / Budget Sub Activity:
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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 7.639 | 58.160 | 24.812 | 9.066 | 33.878 | 81.803 | 37.154 | 37.808 | 38.487 | - | 294.929 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 7.639 | 58.160 | 24.812 | 9.066 | 33.878 | 81.803 | 37.154 | 37.808 | 38.487 | - | 294.929 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 7.639 | 58.160 | 24.812 | 9.066 | 33.878 | 81.803 | 37.154 | 37.808 | 38.487 | - | 294.929 |
| (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:

The Family of Medium Tactical Vehicles (FMTV) has the capability to operate in austere and adverse terrain. These important tactical assets are used by Combat Communication Units, Air Support Operation Squadrons (ASOS), Explosive Ordinance Disposal units (EOD), and other tactical direct mission support units throughout the Air Force. FMTVs are a class of M-Series Vehicles.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY17 funding request was reduced by $\$ 4.634 \mathrm{M}$ to account for the availability of prior year execution balances.
Funding for the exhibit contained in PEs 0202834F, 0502834F, 0502844F, and 0702831F.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 173 | 281 | 174 | 44 | 218 | 521 | 105 | 162 | 174 |
|  | Total Obligation Authority | 4.440 | 52.425 | 21.617 | 9.066 | 30.683 | 78.554 | 33.870 | 34.449 | 35.069 |
| AFNG | Quantity | 10 | 13 | 12 | - | 12 | 10 | 35 | 10 | 23 |
|  | Total Obligation Authority | 1.914 | 2.342 | 1.980 | - | 1.980 | 2.017 | 2.062 | 2.091 | 2.131 |
| AFR | Quantity | 3 | 13 | 7 | - | 7 | 7 | 21 | 8 | 16 |
|  | Total Obligation Authority | 1.286 | 3.394 | 1.215 | - | 1.215 | 1.232 | 1.223 | 1.268 | 1.287 |
| Total: <br> Secondary Distribution | Quantity | 186 | 307 | 193 | 44 | 237 | 538 | 161 | 180 | 213 |
|  | Total Obligation Authority | 7.639 | 58.160 | 24.812 | 9.066 | 33.878 | 81.803 | 37.154 | 37.808 | 38.487 |


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

## Justification:

FY17 procurement dollars in the amount of $\$ 24.812 \mathrm{M}$ will procure, but is not limited to, 193 vehicles in support of the installation and unit mission requirements for Air Force personnel.
FY17 OCO dollars in the amount of $\$ 9.066$ will procure, but is not limited to, 44 vehicles in support of the Overseas Contingency Operations.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Medium Tactical Vehicle |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 822230 / Medium Tactical Vehicle |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \\ & \hline \end{aligned}$ | Total Cost (\$ 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 (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TRK, CGO, MTV, M1083A1P2, W/ OUT WINCH (2320-01-549-8610) (1) | A |  | - | - | - | 191,400.00 |  | $10 \quad 1.914$ | 191,400.00 | 110 | 21.054 | 202,000.00 | 1 | 0.202 | - | - | - | 202,000.00 | 1 | 0.202 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 102 | 19.523 |  | 1 | 0.202 |  | - | - |  | 1 | 0.202 |
| AFNG |  |  |  | - | - |  | 10 | $10 \quad 1.914$ |  | 5 | 0.957 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | 3 | 0.574 |  | - | - |  | - | - |  | - | - |
| TRK, CGO, LMTV, M1078A1P2, W/ OUT WINCH (2320-01-549-8577 | A |  | - | - | - | - | - | - | - | - | - | 145,000.00 | 4 | 0.580 | - | - | - | 145,000.00 | 4 | 0.580 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 4 | 0.580 |  | - | - |  | 4 | 0.580 |
| TRK TRACTOR (2320-01-318-9902) | A |  | - | - | - | - | - | - | - | - | - | 396,000.00 | 1 | 0.396 | - | - | - | 396,000.00 | 1 | 0.396 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.396 |  | - | - |  | 1 | 0.396 |
| $\begin{aligned} & \text { TRK CUCV CGO } \\ & (2320-01-123-2671) \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | - | 34,100.00 | 51 | 1.739 | 34,166.00 | 4 | 0.137 | 34,104.80 | 55 | 1.876 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 51 | 1.739 |  | 4 | 0.137 |  | 55 | 1.876 |
| $\begin{aligned} & \hline \text { TRK CGO 6X6 } \\ & \text { (2320-01-354-3385) } \end{aligned}$ | A |  | - | - | - | - | - | - - | - | - | - | 227,500.00 | 12 | 2.730 | 227,545.00 | 38 | 8.647 | 227,534.20 | 50 | 11.377 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 10 | 2.275 |  | 38 | 8.647 |  | 48 | 10.922 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.455 |  | - | - |  | 2 | 0.455 |
| $\begin{aligned} & \hline \text { TRK CGO 6X6 } \\ & (2320-01-354-3386) \end{aligned}$ | A |  | - | - | - | - | - | - - | - | - | - | 271,800.00 | 11 | 2.990 | 271,721.00 | 1 | 0.272 | 271,793.42 | 12 | 3.262 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 8 | 2.174 |  | 1 | 0.272 |  | 9 | 2.446 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 3 | 0.815 |  | - | - |  | 3 | 0.815 |
| $\begin{aligned} & \hline \text { TRUCK, DUMP } \\ & (2320-01-552-7787) \end{aligned}$ | A |  | - | - | - | 268,919.00 |  | 10.269 | - | - | - | 269,000.00 | 20 | 5.380 | - | - | - | 269,000.00 | 20 | 5.380 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | $1{ }^{1} 0.269$ |  | - | - |  | 20 | 5.380 |  | - | - |  | 20 | 5.380 |
| $\begin{aligned} & \hline \text { TRUCK DUMP } \\ & \text { (2320-01-354-4529) } \\ & \hline \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | - | 400,500.00 | 2 | 0.801 | - | - | - | 400,500.00 | 2 | 0.801 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 02$ / 2 |  |  |  |
| :--- | :---: | :---: | :---: |
| P-1 Line Item Number / Title: <br> $822230 /$ Medium Tactical Vehicle |  |  |  |


| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unit Cost (\$) | Qty | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) |
| AF |  |  |  | - | - |  | - | - |  | - | - |  |
| TRK, WRECKER, M1089A1P2 <br> W/WINCH (2320-01-552-7762) <br> (2) | A |  | - | - | - | 428,600.00 | 5 | 2.143 | 428,600.00 | 22 | 9.429 | 429,000.00 |

Secondary Distribution

| AF |  |  | - | - |  | 2 | 0.857 |  | 13 | 5.572 |  | 11 | 4.719 |  | - | - |  | 11 | 719 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AFNG |  |  | - | - |  | - | - |  | 3 | 1.286 |  | - | - |  | - | - |  |  | - |
| AFR |  |  | - | - |  | 3 | 1.286 |  | 6 | 2.572 |  | - | - |  | - | - |  |  | - |
| TRK WRECKER <br> (2320-01-354-4528) | A | - | - | - | - | - | - | - | - | - | 665,000.00 | 2 | 1.330 | - | - | - | 665,000.00 | 2 | 330 |


| AF |  |  |  | - |  |
| :--- | :--- | :--- | :--- | :--- | :---: |
| AFNG |  |  |  | - |  |
| TRK, CGO, MTV, | A |  |  |  |  |
| M1078A1P2, W/ |  |  |  |  |  |
| OUT WINCH <br> (2320-01-549-8611) <br> (3) |  |  | - | - |  |
| Secondary Distribution |  |  |  |  |  |


| AF |  |  | - | - |  | 10 | 1.690 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AFR |  |  | - | - |  | - | - |  |
| TLR TK WTR, M149A1 <br> (2330-00-060-6511) | A | - | - | - | 40,000.00 | 12 | 0.480 | 38,000.00 |

Date: February 2016

## Aggregated Items Title:

Medium Tactical Vehicle

| FY 2017 OCO |  | FY 2017 Total |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: |
| - | - | - | $429,000.00$ | 11 | 4.719 |
|  | - | Qty <br> (Each) | Cost <br> $(\$ M)$ | Unit Cost <br> $(\$)$ | Qty <br> (Each) |

$$
\begin{array}{|r|r|r|}
\hline- & - & \\
\hline- & - & \\
\hline & & \\
\hline 158 & 27.171 & 173,500.00 \\
& & \\
\hline
\end{array}
$$

$$
\begin{array}{|r|r|}
\hline 1 & 0.665 \\
\hline 1 & 0.665 \\
\hline & \\
7 & 1.215 \\
\hline
\end{array}
$$

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$\square$
$\square$

| - |  | - | - |
| ---: | ---: | ---: | :---: |
| - |  | 7 | 1.215 |
| - | $38,000.00$ | 13 | 0.494 | Secondary Distribution




## UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Medium Tactical Vehicle |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 822230 / Medium Tactical Vehicle |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | rior Years |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\left\|\begin{array}{l} \text { ID } \\ \text { CD } \end{array}\right\|$ | $\begin{array}{\|c\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (8) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (s) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| TLR, 2.5T CHS, M200 (2330-00-540-3950) | A |  | - | . |  | 7,238.00 | 147 | $147 \quad 1.064$ | 7,200.00 | 9 | 0.065 | 7,500.00 | 10 | 0.075 | - | . | . | 7,500.00 | 10 | 0.075 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - |  |  | 147 | 年\| 1.064 |  | 5 | 0.036 |  | 4 | 0.030 |  | - | - |  | 4 | 0.030 |
| AFNG |  |  |  | - | - |  | - | - |  | 4 | 0.029 |  | 6 | 0.045 |  | - | - |  | 6 | 0.045 |
| $\begin{aligned} & \hline \text { DOLLY SET } \\ & (2330-01-378-9997) \\ & \hline \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | - | 92,000.00 | 13 | 1.196 | - | - | - | 92,000.00 | 13 | 1.196 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 13 | 1.196 |  | - | - |  | 13 | 1.196 |
| PMA OTHER government costs | A |  | - | - | - | - | - | 0.009 | - | - | 0.009 | - |  | 0.008 | - | - | - | - | - | 0.008 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.009 |  | - | 0.009 |  | - | 0.008 |  | - | - |  | - | 0.008 |
| Subtotal: Uncategorized |  |  | $\cdot$ | - | - | - | - | 7.639 | - | - | 58.160 | - | - | 24.812 | - | - | 9.066 | - | - | 33.878 |
| Total |  |  | - | - | - | - | - | 7.639 | - |  | 58.160 | - | - | 24.812 | - |  | 9.066 | - |  | 33.878 |
| Note: Subtotals or Tota <br> Remarks: <br> Based on AF Mission c <br> Unit costs and quantitie <br> PMA Justification: <br> -- PROGRAM MANAG <br> Footnotes: <br> ${ }^{(1)}$ Quantities may chan <br> ${ }^{(2)}$ Quantities may chan <br> ${ }^{(3)}$ Quantities may chan | als in <br> chang <br> ies for <br> EME <br> nge u <br> nge u <br> nge u | this E <br> ges an <br> FY17 <br> ENT AD <br> upon re <br> upon r <br> upon re | xhibit P-40a <br> d/or AF Miss are subject <br> DMINISTRAT <br> elease of the elease of the elease of the | may not b <br> on prioriti <br> o change <br> ON (PMA) <br> Tactical W <br> Tactical W <br> Tactical W | exact or <br> NSNs <br> PMA su <br> eeled Ve <br> eeled Ve <br> eeled Ve | m exactly, d <br> d/or quantiti <br> ports the op <br> icle Strategy icle Strategy icle Strategy | e to round <br> s may ch <br> ration of the | nding. <br> hange during <br> the program | year of execu <br> office in its m | tion. <br> anageme | and overs | ight role via | ravel, proc | rement of | supplies and | Advisor | d adminis | trative Serv | es (A\&AS) |  |

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo
and Utility Vehicles

## P-1 Line Item Number / Title:

 822910 / Cap Vehiclesand Utility Vehicles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A Item MDAP/MAIS Code(s): N/A

| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |
| :--- | :--- |


| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 1.700 | 1.700 | 0.984 | - | 0.984 | 1.001 | 1.019 | 1.038 | 1.057 | - | 8.499 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 1.700 | 1.700 | 0.984 | - | 0.984 | 1.001 | 1.019 | 1.038 | 1.057 | - | 8.499 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 1.700 | 1.700 | 0.984 | - | 0.984 | 1.001 | 1.019 | 1.038 | 1.057 | - | 8.499 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | $\checkmark$ | - | - | - | - | $\square$ | - | - | - | - | - |
| 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: 0901223F

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo
P-1 Line Item Number / Title:
822910 / Cap Vehicles
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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | Cap Vehicles |  |  | 1 | - 11.700 | - 11.700 | - 10.984 | 1 | - 10.984 |
| P-40 | Total Gross/Weapon System Cost |  |  | 1 | - 11.700 | - 11.700 | - 10.984 | 1 | - 10.984 |


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

## Justification:

 citizens to the public welfare.
 transportation for over 24,000 CAP cadets to support execution of the Aerospace Education and Cadet Program missions as directed by 36 U.S.C Section 403 , 10 U.S.C. Section 9442 .

CAP is a grant recipient; as such, AF central procurement processes are not applicable.

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Cap Vehicles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 822910 / Cap Vehicles |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{array}{\|c} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \\ & \hline \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 PAX VAN | A |  | - | - | - | 0.029 | 16 | 0.471 | 0.030 | 15 | 0.443 | 0.030 | 8 | 0.240 | - | - | - | 0.030 | 8 | 0.240 |
| 12 PAX VAN | A |  | - | - | - | 0.033 | 19 | 0.618 | 0.031 | 20 | 0.624 | 0.032 | 13 | 0.417 | - | - | - | 0.032 | 13 | 0.417 |
| SEDAN | A |  | - | - | - | - | - | - | 0.027 | 2 | 0.053 | 0.027 | 1 | 0.027 | - | - | - | 0.027 | 1 | 0.027 |
| 8 PAX 4X4 | A |  | - | - | - | 0.037 | 8 | 0.295 | 0.037 | 8 | 0.296 | 0.038 | 3 | 0.113 | - | - | - | 0.038 | 3 | 0.113 |
| PICK-UP TRUCK | A |  | - | - | - | 0.033 | 6 | 0.201 | 0.034 | 5 | 0.169 | 0.034 | 3 | 0.101 | - | - | - | 0.034 | 3 | 0.101 |
| 5 PAX SUV | A |  | - | - | - | 0.029 | 4 | 0.114 | 0.029 | 4 | 0.115 | 0.029 | 3 | 0.086 | - | - | - | 0.029 | 3 | 0.086 |
| Subtotal: CAP Vehicles |  |  | - | - | - | - | - | 1.700 | - | - | 1.700 | - | - | 0.984 | - | - | - | - | - | 0.984 |
| Total |  |  | - | - | - | - | - | 1.700 | - | - | 1.700 | - | - | 0.984 | - | - | - | - | - | 0.984 |

## Remarks:

CAP is a grant recipient; as such, AF central procurement processes are not applicable. CAP procurement processes/standards are described in Department of Defense Grant \& Agreement Regulations.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo
and Utility Vehicles

## P-1 Line Item Number / Title:

 822990 / Items Less Than $\$ 5$ Million 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 27.778 | 12.483 | 11.191 | 12.264 | 23.455 | 14.161 | 8.478 | 8.886 | 9.106 | - | 104.347 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 27.778 | 12.483 | 11.191 | 12.264 | 23.455 | 14.161 | 8.478 | 8.886 | 9.106 | - | 104.347 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 27.778 | 12.483 | 11.191 | 12.264 | 23.455 | 14.161 | 8.478 | 8.886 | 9.106 | - | 104.347 |
| (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 Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

FY15 funding totals include \$3M appropriated for Overseas Contingency Operations.



 these replacement vehicles, the Air Force will not have the ability to support broad spectrum Air Force operations.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs: 0202834F, 0207597F, 028028F, 0305114F, 0401221F, 0502834F, 0502844F, 0702831F.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 759 | 267 | 241 | 381 | 622 | 311 | 48 | 150 | 193 |
|  | Total Obligation Authority | 27.778 | 10.040 | 7.862 | 12.264 | 20.126 | 10.820 | 4.610 | 5.522 | 5.678 |
| AFNG | Quantity | - | - | 9 | - | 9 | 8 | 9 | 3 | 8 |
|  | Total Obligation Authority | - | - | 0.284 | - | 0.284 | 0.280 | 0.279 | 0.297 | 0.303 |
| AFR | Quantity | - | 79 | 88 | - | 88 | 57 | 77 | 83 | 71 |
|  | Total Obligation Authority | - | 2.443 | 3.045 | - | 3.045 | 3.061 | 3.589 | 3.067 | 3.125 |
| Total: | Quantity | 759 | 346 | 338 | 381 | 719 | 376 | 134 | 236 | 272 |

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 822990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |
| 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 | de: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Secondary Distribution | Total Obligation Authority | 27.778 | 12.483 | 11.191 | 12.264 | 23.455 | 14.161 | 8.478 | 8.886 | 9.106 |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 822990 / Items Less Than $\$ 5$ Million |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready) |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item | m MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | Items Less Than \$5 Million <br> Total Gross/Weapon System Cost |  |  |  | - 1 - | - 127.778 | - /12.483 | - /11.191 | - / 12.264 | - 123.455 |
| P-40 |  |  |  |  | - 1 - | - 127.778 | - /12.483 | - $/ 11.191$ | - /12.264 | - 123.455 |

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

## Justification:

FY17 procurement dollars in the amount of $\$ 11.191 \mathrm{M}$ will procure, but is not limited, to 338 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY17 OCO dollars in the amount of $\$ 12.264 \mathrm{M}$ will procure, but is not limited, to 381 vehicles in support of Overseas Contingency Operations.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 822990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \\ & \hline \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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) | $\underset{(\$)}{\text { Unit Cost }}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TRAILER, 38 FT. SEMI (2330-01-381-9477) | A |  | - | - | - | 43,249.00 | 99 | 4.282 | 44,000.00 | 40 | 1.760 | 44,000.00 | 12 | 0.528 | - | - | - | 44,000.00 | 12 | 0.528 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 99 | 4.282 |  | 40 | 1.760 |  | 5 | 0.220 |  | - | - |  | 5 | 0.220 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 5 | 0.220 |  | - | - |  | 5 | 0.220 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.088 |  | - | - |  | 2 | 0.088 |
| TRAILER, FLAT BED, 45 FT. AIR RIDE (2330-01-061-8609) | A |  | - | - | - | - | - | - | 40,751.00 | 6 | 0.245 | - | - | - | 41,000.00 | 1 | 0.041 | 41,000.00 | 1 | 0.041 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 6 | 0.245 |  | - | - |  | 1 | 0.041 |  | 1 | 0.041 |
| TRAILER, 50 TON LOWBED (2330-01-058-5911) | A |  | - | - | - | 61,592.00 | 4 | 0.246 | 78,055.00 | 15 | 1.171 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 0.246 |  | 15 | 1.171 |  | - | - |  | - | - |  | - | - |
| TRAILER, LOWBED, TILT DECK, 22 TON (2330-00-138-3011) | A |  | - | - | - | 67,833.00 | 9 | 0.610 | 68,000.00 | 5 | 0.340 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 9 | 0.610 |  | 5 | 0.340 |  | - | - |  | - | - |  | - | - |
| TRUCK, PICKUP, CREW CAB, 1/2T, 4X4 (2320-01-484-6748) | A |  | - | - | - | 30,397.00 | 96 | 2.918 | 32,000.00 | 9 | 0.288 | 33,000.00 | 9 | 0.297 | - | - | - | 33,000.00 | 9 | 0.297 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 96 | 2.918 |  | 7 | 0.224 |  | 9 | 0.297 |  | - | - |  | 9 | 0.297 |
| AFR |  |  |  | - | - |  | - | - |  | 2 | 0.064 |  | - | - |  | - | - |  | - | - |
| TRUCK, PICKUP CREW CAB <br> $4 \times 4,3 / 4 \mathrm{~T}$ CU <br> (2320-00-580-2955) | A |  | - | - | - | 28,243.00 | 78 | 2.203 | 32,000.00 | 22 | 0.704 | 34,000.00 | 25 | 0.850 | 34,000.00 | 56 | 1.904 | 34,000.00 | 81 | 2.754 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 78 | 2.203 |  | 15 | 0.480 |  | 14 | 0.476 |  | 56 | 1.904 |  | 70 | 2.380 |
| AFR |  |  |  | - | - |  | - | - |  | 7 | 0.224 |  | 11 | 0.374 |  | - | - |  | 11 | 0.374 |
| TRUCK, PICKUP CREW CAB 4X2, 3/4T CU (2320-00-580-2954) | A |  | - | - | - | 24,475.00 | 43 | 1.052 | 27,291.00 | 24 | 0.655 | 31,000.00 | 19 | 0.589 | 31,000.00 | 25 | 0.775 | 31,000.00 | 44 | 1.364 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 43 | 1.052 |  | 20 | 0.546 |  | 16 | 0.496 |  | 25 | 0.775 |  | 41 | 1.271 |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Items Less Than \$5 Million |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 02 \text { I } 2$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 822990 / Items Less Than \$5 Million |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Year |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\left\lvert\, \begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}\right.$ | $\begin{array}{\|l\|l\|} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (8) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| AFR |  |  |  | - | - |  | - | - |  | 4 | 0.109 |  | 3 | 0.093 |  | - | - |  | 3 | 0.093 |
| TRUCK, STAKE AND PLATFORM 4X2 10000GVW (2320-01-250-7367) | A |  | - | - | - | 41,943.00 | 16 | 0.671 | 30,000.00 | 8 | 0.240 | 30,000.00 | 7 | 0.210 | - | - | - | 30,000.00 | 7 | 0.210 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 16 | 0.671 |  | 3 | 0.090 |  | 7 | 0.210 |  | - | - |  | 7 | 0.210 |
| AFR |  |  |  |  | - |  | - | - |  | 5 | 0.150 |  | - | - |  | - | - |  | - |  |
| TRUCK, CARRYALL 4X2 8 PAX (2320-00-879-7662) | A |  | - | - | - | 24,604.00 | 8 | 0.197 | 25,000.00 | 15 | 0.375 | 27,000.00 | 11 | 0.297 | 27,000.00 | 25 | 0.675 | 27,000.00 | 36 | 0.972 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 8 | 0.197 |  | 15 | 0.375 |  | 11 | 0.297 |  | 25 | 0.675 |  | 36 | 0.972 |
| TRUCK, CARRYALL 4X2 15 PAX (2320-01-036-6569) | A |  | - | - | - | 26,409.00 | 11 | 0.290 | 28,000.00 | 13 | 0.364 | 28,000.00 | 13 | 0.364 | - | - | - | 28,000.00 | 13 | 0.364 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 0.290 |  | 10 | 0.280 |  | 13 | 0.364 |  | - | - |  | 13 | 0.364 |
| AFR |  |  |  | - | - |  | - | - |  | 3 | 0.084 |  | - | - |  | - | - |  | - |  |
| TRUCK, CARRYALL 4X2 7 PAX (2320-01-173-6113) | A |  | - | - | - | 22,715.00 | 2 | 0.045 | 24,245.00 | 8 | 0.194 | 24,300.00 | 33 | 0.802 | - | - | - | 24,300.00 | 33 | 0.802 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.045 |  | 8 | 0.194 |  | 30 | 0.729 |  | - | - |  | 30 | 0.729 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 3 | 0.073 |  | - | - |  | 3 | 0.073 |
| $\begin{aligned} & \text { TRUCK, PICKUP } \\ & 4 \times 1 / 2 \mathrm{~T} 4600 \\ & \& 5799 \text { GVW } \\ & (2320-00-811-6869) \\ & \hline \end{aligned}$ | A |  | - | - | - | 22,242.00 | 28 | 0.623 | 22,575.00 | 20 | 0.452 | 24,200.00 | 33 | 0.799 | - | - | - | 24,200.00 | 33 | 0.799 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 28 | 0.623 |  | 8 | 0.181 |  | 30 | 0.726 |  | - | - |  | 30 | 0.726 |
| AFR |  |  |  | - | - |  | - | - |  | 12 | 0.271 |  | 3 | 0.073 |  | - | - |  | 3 | 0.073 |
| $\begin{aligned} & \begin{array}{l} \text { SUV, 4x4 COMPACT } \\ 4500 \text { OWW } \\ (2320-01-563-7478) \end{array} \end{aligned}$ | A |  | - | - | - | 23,554.00 | 1 | 0.024 | 24,694.00 | 11 | 0.272 | 25,000.00 | 2 | 0.050 | - | - | . | 25,000.00 | 2 | 0.050 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.024 |  | 3 | 0.074 |  | 2 | 0.050 |  | - | - |  | 2 | 0.050 |
| AFR |  |  |  | - | - |  | - | - |  | 8 | 0.198 |  | - | - |  | - | - |  | - | - |
| VAN, MAINTENANCE UTILITY DELIVERY (2320-01-176-2223) | A |  | - | - | . | 34,391.00 | 90 | 3.095 | 36,899.00 | 43 | 1.587 | 37,000.00 | 37 | 1.369 | 37,000.00 | 37 | 1.369 | 37,000.00 | 74 | 2.738 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 822990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | mDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 (\$ 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) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| AF |  |  |  | - | - |  | 90 | 3.095 |  | 39 | 1.439 |  | 22 | 0.814 |  | 37 | 1.369 |  | 59 | 2.183 |
| AFR |  |  |  | - | - |  | - | - |  | 4 | 0.148 |  | 15 | 0.555 |  | - | - |  | 15 | 0.555 |
| TRUCK, TRACTOR 44.5G (2320-00-271-1432) | A |  | - | - | - | 139,327.00 | 11 | 1.533 | 132,000.00 | 8 | 1.056 | 134,000.00 | 9 | 1.206 | - | - | - | 134,000.00 | 9 | 1.206 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 1.533 |  | 6 | 0.792 |  | 7 | 0.938 |  | - | - |  | 7 | 0.938 |
| AFR |  |  |  | - | - |  | - | - |  | 2 | 0.264 |  | 2 | 0.268 |  | - | - |  | 2 | 0.268 |
| TRUCK, VAN PANEL 4X2 (2320-01-013-2754) | A |  | - | - | - | 20,798.00 | 32 | 0.666 | 21,100.00 | 19 | 0.401 | 22,000.00 | 7 | 0.154 | - | - | - | 22,000.00 | 7 | 0.154 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 32 | 0.666 |  | 11 | 0.232 |  | 1 | 0.022 |  | - | - |  | 1 | 0.022 |
| AFR |  |  |  | - | - |  | - | - |  | 8 | 0.169 |  | 6 | 0.132 |  | - | - |  | 6 | 0.132 |
| TRUCK, TRACTOR 39.5 G (2320-01-341-7627) (1) | A |  | - | - | - | 120,000.00 | 26 | 3.120 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 26 | 3.120 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRUCK, 1/2 T REG CAB 4X2 (2320-00-540-1428) | A |  | - | - | - | 20,322.00 | 40 | 0.813 | 21,300.00 | 13 | 0.277 | 24,000.00 | 28 | 0.672 | - | - | - | 24,000.00 | 28 | 0.672 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 40 | 0.813 |  | 13 | 0.277 |  | 23 | 0.552 |  | - | - |  | 23 | 0.552 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 5 | 0.120 |  | - | - |  | 5 | 0.120 |
| $\begin{aligned} & 1 / 4 \text { TON } 4 \times 4 \\ & \text { EXT CAB P/U } \\ & \text { (2320-01-500-9498) } \end{aligned}$ | A |  | - | - | - | 27,619.00 | 2 | 0.055 | 29,386.00 | 6 | 0.176 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.055 |  | 6 | 0.176 |  | - | - |  | - | - |  | - | - |
| TRUCK, COMPACT CREW CAB 4X4 (2320-01-500-5203) | A |  | - | - | - | 29,639.00 | 11 | 0.326 | 29,936.00 | 6 | 0.180 | 30,000.00 | 9 | 0.270 | 30,000.00 | 236 | 7.080 | 30,000.00 | 245 | 7.350 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 0.326 |  | 6 | 0.180 |  | 2 | 0.060 |  | 236 | 7.080 |  | 238 | 7.140 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 7 | 0.210 |  | - | - |  | 7 | 0.210 |
| TRUCK, PICKUP CREW CAB 4X2 (2320-01-504-1443) | A |  | - | - | - | 26,051.00 | 9 | 0.234 | 26,229.00 | 15 | 0.393 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 9 | 0.234 |  | 5 | 0.131 |  | - | - |  | - | - |  | - | - |

LI 822990 - Items Less Than $\$ 5$ Million Air Force

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## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 822990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| AFR |  |  |  | - | - |  | - | - |  | 10 | 0.262 |  | - | - |  | - | - |  | - | - |
| TRUCK, $1 / 4$ TON 4X2 EXT CAB (2320-01-496-0404) | A |  | - | - | - | 25,054.00 | 50 | 1.253 | 26,550.00 | 6 | 0.159 | 27,000.00 | 52 | 1.404 | - | - | - | 27,000.00 | 52 | 1.404 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 50 | 1.253 |  | 6 | 0.159 |  | 31 | 0.837 |  | - | - |  | 31 | 0.837 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 21 | 0.567 |  | - | - |  | 21 | 0.567 |
| TRUCK, 4X2 UTILITY 9 PAX (2320-01-441-6916) | A |  | - | - | - | 36,201.00 | 4 | 0.145 | 37,886.00 | 6 | 0.227 | 38,000.00 | 3 | 0.114 | - | - | - | 38,000.00 | 3 | 0.114 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 0.145 |  | 5 | 0.189 |  | 3 | 0.114 |  | - | - |  | 3 | 0.114 |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.038 |  | - | - |  | - | - |  | - | - |
| 12 TON STAKE PLATFM TRAILER (2330-01-331-8867) | A |  | - | - | - | 41,711.00 | 1 | 0.042 | 41,952.00 | 6 | 0.252 | 42,600.00 | 1 | 0.043 | - | - | - | 42,600.00 | 1 | 0.043 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.042 |  | 6 | 0.252 |  | 1 | 0.043 |  | - | - |  | 1 | 0.043 |
| TRUCK, $1 / 2$ TON CREW CAB 4X2 (2320-01-484-6745) | A |  | - | - | - | 22,732.00 | 2 | 0.045 | 24,000.00 | 6 | 0.144 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.045 |  | 6 | 0.144 |  | - | - |  | - | - |  | - | - |
| 1 TON STAKE PLATFORM 4X2 (2320-00-851-8481) | A |  | - | - | - | 25,568.00 | 9 | 0.230 | 25,768.00 | 10 | 0.258 | 30,000.00 | 7 | 0.210 | - | - | - | 30,000.00 | 7 | 0.210 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 9 | 0.230 |  | 2 | 0.052 |  | 2 | 0.060 |  | - | - |  | 2 | 0.060 |
| AFR |  |  |  | - | - |  | - | - |  | 8 | 0.206 |  | 5 | 0.150 |  | - | - |  | 5 | 0.150 |
| 20 TON 25 FT STLR (2330-00-899-7527) | A |  | - | - | - | 40,764.00 | 9 | 0.367 | - | - | - | 39,000.00 | 5 | 0.195 | - | - | - | 39,000.00 | 5 | 0.195 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 9 | 0.367 |  | - | - |  | 5 | 0.195 |  | - | - |  | 5 | 0.195 |
| $\begin{aligned} & \hline \text { STLR L/B } 35 \text { TON } \\ & \text { (2330-01-051-6648) } \end{aligned}$ | A |  | - | - | - | 45,446.00 | 7 | 0.318 | 51,243.00 | 6 | 0.307 | 62,000.00 | 4 | 0.248 | - | - | - | 62,000.00 | 4 | 0.248 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 7 | 0.318 |  | 1 | 0.051 |  | 1 | 0.062 |  | - | - |  | 1 | 0.062 |
| AFR |  |  |  | - | - |  | - | - |  | 5 | 0.256 |  | 3 | 0.186 |  | - | - |  | 3 | 0.186 |
| STLR VAN 30 FT12 TON (2330-00-865-5443) | A |  | - | - | - | 30,530.00 | 3 | 0.092 | - | - | - | 33,000.00 | 1 | 0.033 | - | - | - | 33,000.00 | 1 | 0.033 |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 822990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than \$5 Million |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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) | 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 <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| AF |  |  |  | - | - |  | 3 | 0.092 |  | - | - |  | 1 | 0.033 |  | - | - |  | 1 | 0.033 |
| TRK TRAC 80K GVW (2320-01-482-9775) | A |  | - | - | - | 154,784.00 | 2 | 0.310 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.310 |  | - | - |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \hline \text { STLR 20T 40FT } \\ & \text { (2320-01-094-0007) } \end{aligned}$ | A |  | - | - | - | 76,321.00 | 1 | 0.076 | - | - | - | 78,000.00 | 3 | 0.234 | - | - | - | 78,000.00 | 3 | 0.234 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.076 |  | - | - |  | 1 | 0.078 |  | - | - |  | 1 | 0.078 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.156 |  | - | - |  | 2 | 0.156 |
| TLR FLATBED 5-6T (2330-00-877-5646) | A |  | - | - | - | 16,925.00 | 11 | 0.186 | - | - | - | 19,000.00 | 1 | 0.019 | - | - | - | 19,000.00 | 1 | 0.019 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 0.186 |  | - | - |  | 1 | 0.019 |  | - | - |  | 1 | 0.019 |
| TRUCK PICKUP, REG CAB 4X4, 3/4T (2320-01-532-2772) | A |  | - | - | - | 25,058.00 | 1 | 0.025 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.025 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRK TRAC 55 GVW (23200-01-058-5724) | A |  | - | - | - | 131,476.00 | 1 | 0.131 | - | - | - | 134,400.00 | 1 | 0.134 | - | - | - | 134,400.00 | 1 | 0.134 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.131 |  | - | - |  | 1 | 0.134 |  | - | - |  | 1 | 0.134 |
| $\begin{aligned} & \text { CARGO VAN } \\ & (2320-01-543-6363) \\ & \hline \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | - | 16,000.00 | 6 | 0.096 | - | - | - | 16,000.00 | 6 | 0.096 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.032 |  | - | - |  | 2 | 0.032 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 4 | 0.064 |  | - | - |  | 4 | 0.064 |
| TRK TRACTOR (2320-01-482-9775) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TRUCK, CARRYALL 4X4 7500 GVW (2320-00-950-4238) | A |  | - | - | - | 34,500.00 | 22 | 0.759 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 22 | 0.759 |  | - | - |  | - | - |  | - | - |  | - | - |
| STLR LB 60 TON (2320-00-349-2572) | A |  | - | - | - | 78,867.00 | 2 | 0.158 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.158 |  | - | - |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \hline \text { STLR LB 25T } \\ & (2330-00-899-7526) \end{aligned}$ | A |  | - | - | - | 39,891.00 | 1 | 0.040 | - | - | - | - | - | - | - | - | - | - | - | - |

## UNCLASSIFIED

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| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 822990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than \$5 Million |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { MDAPI } \\ \text { MAls } \\ \text { Code } \\ \hline \end{array}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ |  | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ (\text { (Each }) \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 1 | 0.040 |  | - | - |  | - | - |  | - | - |  | - | - |
| TLR FB3 \& 8T (2330-00-014-0494) | A |  | - | - | - | 5,877.00 |  | 3 | 0.018 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 3 | 0.018 |  | - | - |  | - | - |  | - | - |  | - |  |
| $\begin{aligned} & \hline \text { TRK CGO 4DR } \\ & (2320-01-424-2760) \\ & \hline \end{aligned}$ | A |  | - | - | - | 34,495.00 |  | 12 | 0.414 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 12 | 0.414 |  | - | - |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \hline \text { TRK CGO 4X4 } \\ & (2320-00-801-7593) \\ & \hline \end{aligned}$ | A |  | - | - | - | 93,257.00 |  | 1 | 0.093 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 1 | 0.093 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRK STK 4X2 (2320-01-064-8540) | A |  | - | - | - | 69,585.00 |  | 1 | 0.070 | - | - | - | - | - | . | - | - | . | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | $\cdot$ | - |  |  | 1 | 0.070 |  | - | - |  | - | - |  | - | - |  | - | - |
| $4 \times 4$ CREWCAB UTILITY TRUCK ${ }^{(2320-01-395-1368)}$ (2) | A |  | - | - | - | - | - |  | - | - | - | - | - | - | - | 420,000.00 | 1 | 0.420 | 420,000.00 | 1 | 0.420 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | - |  | - | - |  | - | - |  | 1 | 0.420 |  | 1 | 0.420 |
| PMA OTHER GOVERNMENT costs | A |  | - | . | - | - | . |  | 0.003 | - | . | 0.007 | - | . | 0.004 | - | - | . | - | - | 0.004 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | 0.003 |  | - | 0.007 |  | - | 0.004 |  | - | - |  | - | 0.004 |
| AFR |  |  |  | - | - |  | - |  | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - |  | 27.778 | - | - | 12.483 | - | - | 11.191 | - | - | 12.264 | - | - | 23.455 |
| Total |  |  | - | - | - | $\cdot$ | - |  | 27.778 | - | - | 12.483 | - | - | 11.191 | - | - | 12.264 | - | - | 23.455 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force | Date: February 2016 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 02$ / 2 | P-1 Line Item Number / Title: <br> 822990 / Items Less Than \$5 Million | Aggregated Items Title: <br> Items Less Than \$5 Million |

## Remarks:

Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.
FY17 UNIT COSTS ARE SUBJECT TO CHANGE


## Footnotes:

${ }^{(1)}$ (Airfield Damage Repair) FY15 OCO REQ
${ }^{(2)}$ PEC 0305114F AIR TRAFFIC CONTROL, APPROACH AND LANDING SYSTEM (ATCALS).

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

| Appropriation / Budget Activit 3080F: Other Procurement, Air Purpose Vehicles | Budget / BA | ub Activity Vehicular | Equipment | BSA 3: Sp | P-1 <br> 8232 | ine Item N 30 / Securit | umber / Tit <br> And Tacti | cal Vehicles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Elem | ments for Co | B Items: |  |  | Other Related | Program Ele | ments: N/A |  |  |
| Line Item MDAP/MAIS Code: N/A | Item | AP/MAIS Cod | (s): N/A |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 10.027 | 4.728 | 5.361 | - | 5.361 | 4.986 | 35.290 | 35.739 | 36.382 | - | 132.513 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 10.027 | 4.728 | 5.361 | - | 5.361 | 4.986 | 35.290 | 35.739 | 36.382 | - | 132.513 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 10.027 | 4.728 | 5.361 | - | 5.361 | 4.986 | 35.290 | 35.739 | 36.382 | - | 132.513 |
| (The followi | esource Sur | nary rows are for | informational p | urposes only. The | corresponding | budget requests | are documente | d elsewhere.) |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Funding provides for a variety of security and tactical vehicles essential to strategic military operations. This program previously procured the standard diesel powered High Mobility Multi-purpose Wheeled Vehicle (HMMWV) and all configurations used by the Air Force, Guardian Angel Air-Deployable Rescue Vehicle (GAARV), and cargo trailers. In the future, funding will be used to procure next generation security and tactical vehicles

The M1101 and M1102 are light tactical trailers (designated by load weight) in a single axle, two wheel trailer designed to be towed by a HMMWV towing vehicle. The trailers have the same tires, wheels, and track width as the HMMWV. The only difference between the M1101 and the M1102 trailer is the model information and payload capacity. The trailers have various applications and provide the forces with a light, nimble, rugged trailer built primarily for hauling cargo.

Guardian Angel Air-Deployable Rescue Vehicle: The Guardian Angel Air-Deployable Rescue Vehicle (GAARV) is an air-deployable surface recovery platform capable of maneuvering over adverse terrain in order to search for and recover isolated personnel and/or equipment. It will provide increased survivability during "outside the wire" personnel recovery operations, more secure transportation capability to the recovery team and injured/isolated personnel from an area of high threat, and necessary training platforms for operators to familiarize themselves with vehicles they utilize in the area of operations. It also provides operators with increased protection from enemy fire and improvised explosive devices. Funding includes, but is not limited to procurement of end items, training, upgrades, retrofits, spares, repairs, deployment packages and returns. Due to rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements.

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

Funding for this exhibit contained in PEs 0202834F, 0207227F, 0502834F, 0502844F, 0702831F, 0804731F.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 833 | 109 | 97 | - | 97 | 14 | 379 | 331 | 304 |
|  | Total Obligation Authority | 8.875 | 4.728 | 5.361 | - | 5.361 | 4.986 | 34.396 | 34.830 | 35.464 |

## UNCLASSIFIED

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## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 823230 / Security And Tactical Vehicles |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A Pr |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS | de: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| AFNG | Quantity | 91 | - | - | - | - | - | 21 | 6 | 6 |
|  | Total Obligation Authority | 0.728 | - | - | - | - | - | 0.470 | 0.474 | 0.480 |
| AFR | Quantity | 53 | - | - | - | - | - | 55 | 3 | 3 |
|  | Total Obligation Authority | 0.424 | - | - | - | - | - | 0.424 | 0.435 | 0.438 |
| Total: <br> Secondary Distribution | Quantity | 977 | 109 | 97 | - | 97 | 14 | 455 | 340 | 313 |
|  | Total Obligation Authority | 10.027 | 4.728 | 5.361 | - | 5.361 | 4.986 | 35.290 | 35.739 | 36.382 |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: <br> 823230 / Security And Tactical Vehicles |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Read |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Ite | m MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | Security And Tactical Vehicles |  |  |  | - 1 - | - /10.027 | - 14.728 | - 15.361 | - 1 | - 15.361 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1- | - /10.027 | - 14.728 | - 15.361 | - 1 | - 15.361 |

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

## Justification:

FY17 funding procures, but is not limited to, 88 trailers and 9 Guardian Angel Air Deployable Rescue Vehicles in support of installation and unit mission requirements for Air Force Personnel.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force $\quad$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 823230 / Security And Tactical Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Security And Tactical Vehicles |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|l} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | 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 $\qquad$ | Unit Cost <br> (8) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HIGH MOBILITY TRAILER, LIGHT M1101 (NSN 2330-01-388-6662) | A |  | - | - | - | 5,000.00 | 460 | 0.2 .300 | 5,430.00 | 100 | 0.543 | - | - | - | - | - | - | - | - |  |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 460 | - 2.300 |  | 100 | 0.543 |  | - | - |  | - | - |  | - | - |
| M1102 TRAILER (NSN: 2330-01-387-5426) | A |  | - | - | - | 7,250.00 | 100 | 0.725 | - | . | - | 8,000.00 | 27 | 0.216 | - | - | - | 8,000.00 | 27 | 0.216 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 100 | - 0.725 |  | - | - |  | 27 | 0.216 |  | - | - |  | 27 | 0.216 |
| GUARDIAN ANGEL AIR-DEPLOYABLE RESCUE VEHICLE (GAARV) | A |  | - | - | . | 531,285.71 | 7 | $7 \quad 3.719$ | 431,666.67 | 9 | 3.885 | 435,555.56 | 9 | 3.920 | - | - | - | 435,555.56 | 9 | 3.920 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 7 | $7{ }^{7}$ 3.719 |  | 9 | 3.885 |  | 9 | 3.920 |  | - | - |  | 9 | 3.920 |
| HMMWV M1152A1 (2320-01-540-2007) (1) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | . | . | - | - | - | - | - | . |
| TRL CGO 1.5T M105 (2330-00-541-6466) | A |  | - | - | - | 8,000.00 | 410 | 0.3 .280 | - | - | - | 10,250.00 | 61 | 0.625 | - | - | - | 10,250.00 | 61 | 0.625 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 266 | - 2.128 |  | - | - |  | 61 | 0.625 |  | - | - |  | 61 | 0.625 |
| AFNG |  |  |  | - | - |  | 91 | $1{ }^{1} 0.728$ |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | 53 | 30.424 |  | - | - |  | - | - |  | - | - |  | - | - |
| PMA OTHER GOVERNMENT COSTS | A |  | - | - | . | - | - | 0.003 | - | . | 0.005 | - | - | 0.005 | - | - | - | - | . | 0.005 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.003 |  | - | 0.005 |  | - | 0.005 |  | - | - |  | - | 0.005 |
| PMA CONTRACTOR SERVICES | A |  | - | - | - | - | - | - | - | - | 0.295 | - | . | 0.595 | - | - | - | - | - | 0.595 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | 0.295 |  | - | 0.595 |  | - | - |  | - | 0.595 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 10.027 | - | $\cdot$ | 4.728 | - | - | 5.361 | - | - | - | $\cdot$ | - | 5.361 |
| Total |  |  | - | - | - | - | - | 10.027 | - | - | 4.728 | - | - | 5.361 | - | - | - | - | - | 5.361 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force | Date: February 2016 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 02$ / 3 | P-1 Line Item Number / Title: <br> $823230 ~ / ~ S e c u r i t y ~ A n d ~ T a c t i c a l ~ V e h i c l e s ~$ | Aggregated Items Title: <br> Security And Tactical Vehicles |

Remarks:
PMA Justification:

 requirements associated with JLTV.

Guardian Angel Air-Deployable Rescue Vehicle:
Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.
GAARV unit cost is approximately $\$ 275,000$ per vehicle and does not include training, upgrades, retrofits, spares, repairs, deployment packages and returns.
Unit costs for FY17 are subject to change
Footnotes:
${ }^{(1)}$ Currently being used as a placeholder for JLTV

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

| 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 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Code (A=Service Ready, $\mathrm{B}=$ 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | FY 2017 <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 9.781 | 4.662 | 4.623 | 16.789 | 21.412 | 8.690 | 15.520 | 16.333 | 16.344 | - | 92.742 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 9.781 | 4.662 | 4.623 | 16.789 | 21.412 | 8.690 | 15.520 | 16.333 | 16.344 | - | 92.742 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 9.781 | 4.662 | 4.623 | 16.789 | 21.412 | 8.690 | 15.520 | 16.333 | 16.344 | - | 92.742 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

FY15 funding totals include $\$ 1.878 \mathrm{M}$ for Overseas Contingency Operations.
The Special Purpose Vehicles group consists of various vehicles for flightline, maintenance, and facility operations used for a variety of purposes. Examples of these vehicles include the IW 40 tractor, 4 and 8 passenger over-the-snow-carriers, an assortment of wreckers and refuse trucks, potable and non-potable water distribution trucks, refueling vehicles, deicers, staircase trucks, lavatory service trucks, high reach maintenance trucks, glycol recovery vehicles, diable patient vehicles, and tow tractors. Tow tractors are used to tow aircrafts, munition trailers, and ground support equipment. The IW 40 tractor is a small farm tractor used primarily to pull a mower and for other light tasks; the snow carriers are tracked vehicles which move personnel in snowy conditions and are used in search and rescue missions; the wreckers are used to move disabled vehicles, haul vehicles or to deploy a heavy duty winch. The refuse trucks in this group include one which tilts and dumps a payload and one which compacts refuse prior to discharge. Aircraft refueling vehicles refuel and defual aircrafts. Potable water distribution trucks provide drinking water to personnel; non-potable water distribution trucks are used primarily to wet down and control dust at a construction site.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs 0202834F, 0207597F, 0401221F, 0402834F, 0502834F, 0702831F.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{aligned} & \text { FY } 2017 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 133 | 6 | 18 | 79 | 97 | 46 | 55 | 51 | 50 |
|  | Total Obligation Authority | 9.781 | 1.208 | 1.695 | 16.789 | 18.484 | 6.550 | 13.355 | 14.113 | 14.084 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | - | - | - |
| AFR | Quantity | - | 29 | 19 | - | 19 | 15 | 15 | 10 | 10 |
|  | Total Obligation Authority | - | 3.454 | 2.929 | - | 2.929 | 2.140 | 2.165 | 2.220 | 2.260 |

LI 823990 - Items Less Than $\$ 5$ Million Air Force

## UNCLASSIFIED

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## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 / Items Less Than $\$ 5$ Million |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A ${ }^{\text {A }}$ |  |  | Program Elements for Code B Items: N/A |  |  |  | ther Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS | de: N/A $\quad$ Item | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
|  | Quantity | 133 | 35 | 37 | 79 | 116 | 61 | 70 | 61 | 60 |
| Secondary Distribution | Total Obligation Authority | 9.781 | 4.662 | 4.623 | 16.789 | 21.412 | 8.690 | 15.520 | 16.333 | 16.344 |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 / Items Less Than $\$ 5$ Million |  |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready) |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Ite | m MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base |  | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | Items Less Than \$5 Million |  |  |  | - 1 - | - 19.781 | - 14.662 | - / 4.623 |  | - /16.789 | - 121.412 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 19.781 | - 14.662 | - 14.623 |  | - /16.789 | - 121.412 |

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

## Justification:

FY17 funding procures, but is not limited to, 37 vehicles in support of installation and unit mission requirements for Air Force personnel
FY17 OCO dollars procure, but is not limited to 79 vehicles in support of Overseas Contingency Operations.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 823990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C5 STAIRCASE TRK (1730-01-602-5661YW) | A |  | - | - | - | - | - | - | - | - | - | 0.301 | 1 | 0.301 | - | - | - | 0.301 | 1 | 0.301 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.301 |  | - | - |  | 1 | 0.301 |
| $\begin{aligned} & \hline \text { TRK HILIFT } \\ & (2320-00-540-3489) \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | - | 0.190 | 1 | 0.190 | - | - | - | 0.190 | 1 | 0.190 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.190 |  | - | - |  | 1 | 0.190 |
| 4000GAL DEICER (1730-01-605-7637YW) | A |  | - | - | - | - | - | - | - | - | - | 0.304 | 2 | 0.608 | 0.304 | 8 | 2.434 | 0.304 | 10 | 3.042 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.608 |  | 8 | 2.434 |  | 10 | 3.042 |
| TRAC ACFT TWG MB-4 (1740-00-580-7990YW) | A |  | - | - | - | 0.094 | 2 | 0.188 | - | - | - | 0.111 | 1 | 0.111 | - | - | - | 0.111 | 1 | 0.111 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.188 |  | - | - |  | 1 | 0.111 |  | - | - |  | 1 | 0.111 |
| TOW TRACTOR, MB-2 <br> (1740-00-143-8464YW) | A |  | - | - | - | 0.132 | 2 | 0.264 | - | - | - | 0.130 | 1 | 0.130 | - | - | - | 0.130 | 1 | 0.130 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.264 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.130 |  | - | - |  | 1 | 0.130 |
| FLIGHT LINE TOW TRACTOR, 4X2 (1740-01-068-8945YW | A |  | - | - | - | 0.045 | 61 | 2.727 | 0.043 | 14 | 0.602 | 0.045 | 6 | 0.270 | 0.045 | 16 | 0.720 | 0.045 | 22 | 0.990 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 61 | 2.727 |  | - | - |  | 6 | 0.270 |  | 16 | 0.720 |  | 22 | 0.990 |
| AFR |  |  |  | - | - |  | - | - |  | 14 | 0.602 |  | - | - |  | - | - |  | - | - |
| TRUCK, HI- LIFT 9T (2320-00-540-3991) | A |  | - | - | - | - | - | - | 0.274 | 1 | 0.274 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.274 |  | - | - |  | - | - |  | - | - |
| TRUCK, MAINTENANCE <br> 3/4T 4X4 <br> (2320-00-541-1714) | A |  | - | - | . | 0.028 | 7 | 0.197 | 0.031 | 1 | 0.031 | 0.033 | 1 | 0.033 | - | . | - | 0.033 | 1 | 0.033 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 7 | 0.197 |  | - | - |  | 1 | 0.033 |  | - | - |  | 1 | 0.033 |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.031 |  | - | - |  | - | - |  | - | - |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 823990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
|  | ID | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\underset{\text { (Each) }}{\text { Qty }}$ | 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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| TRUCK, <br> TELEPHONE MAINT STD UTIL 4×2 (2320-00-801-9193) | A |  | - | - | - | 0.026 | 11 | 0.282 | - | - | - | 0.035 | 6 | 0.210 | - | - | - | 0.035 | 6 | 0.210 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 0.282 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 6 | 0.210 |  | - | - |  | 6 | 0.210 |
| 3 TON STAKE AND PLATFORM (2320-00-935-4696) | A |  | - | - | - | - | - | - | - | - | - | 0.166 | 3 | 0.498 | - | - | - | 0.166 | 3 | 0.498 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 3 | 0.498 |  | - | - |  | 3 | 0.498 |
| $\begin{aligned} & \text { TRK TANK } \\ & \text { 1200G 4X2 } \\ & (2320-00-177-6777) \end{aligned}$ | A |  | - | - | - | - | - | - | 0.117 | 4 | 0.468 | 0.126 | 1 | 0.126 | - | - | - | 0.126 | 1 | 0.126 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFR |  |  |  | - | - |  | - | - |  | 4 | 0.468 |  | 1 | 0.126 |  | - | - |  | 1 | 0.126 |
| TRK TNK FUEL 6000GAL R-11 (2320-00-433-5695) | A |  | - | - | - | 0.147 | 2 | 0.294 | 0.197 | 9 | 1.770 | 0.200 | 4 | 0.800 | 0.200 | 3 | 0.600 | 0.200 | 7 | 1.400 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.294 |  | 3 | 0.591 |  | - | - |  | 3 | 0.600 |  | 3 | 0.600 |
| AFR |  |  |  | - | - |  | - | - |  | 6 | 1.179 |  | 4 | 0.800 |  | - | - |  | 4 | 0.800 |
| TRUCK, EXTENDED REACH DEICER (1730-01-495-5449YW) (1) | A |  | - | - | - | 0.626 | 3 | 1.878 | 0.643 | 1 | 0.643 | - | - | . | 0.663 | 6 | 3.980 | 0.663 | 6 | 3.980 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 3 | 1.878 |  | - | - |  | - | - |  | 6 | 3.980 |  | 6 | 3.980 |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.643 |  | - | - |  | - | - |  | - | - |
| TRK MNT DIGGER DERRICK (2320-01-397-7528) | A |  | - | - | - | - | - | - | 0.277 | 1 | 0.277 | 0.288 | 3 | 0.863 | - | - | - | 0.288 | 3 | 0.863 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.277 |  | 3 | 0.863 |  | - | - |  | 3 | 0.863 |
| GLYCOL RECOVERY VEHICLE (3825-01-584-7127) | A |  | - | - | - | - | - | - | 0.340 | 1 | 0.340 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.340 |  | - | - |  | - | - |  | - | - |
| TRLR MAINT (2330-01-308-8926) | A |  | - | - | - | - | - | - | - | - | - | 0.012 | 5 | 0.060 | - | - | - | 0.012 | 5 | 0.060 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 823990 / Items Less Than \$5 Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 5 | 0.060 |  | - | - |  | 5 | 0.060 |
| 2000GAL DEICER (1730-01-605-7636YW) | A |  | - | - | - | - | - | - | - | - | - | 0.210 | 2 | 0.420 | - | - | - | 0.210 | 2 | 0.420 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.420 |  | - | - |  | 2 | 0.420 |
| PMA OTHER GOVERNMENT COSTS | A |  | - | - | - | - | - | 0.001 | 0.003 | 1 | 0.003 | - | - | 0.002 | - | - | - | - | - | 0.002 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.001 |  | 1 | 0.003 |  | - | 0.002 |  | - | - |  | - | 0.002 |
| TRK VAN MSL CREWCAB (2320-01-375-5833) | A |  | - | - | - | 0.121 | 3 | 0.362 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 3 | 0.362 |  | - | - |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \hline \text { TRL CBL REEL } \\ & (2330-00-998-1058) \\ & \hline \end{aligned}$ | A |  | - | - | - | 0.024 | 2 | 0.048 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.048 |  | - | - |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \hline \text { TRK STK 4X2 } \\ & (2320-00-451-2184) \end{aligned}$ | A |  | - | - | - | 0.038 | 32 | 1.217 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 32 | 1.217 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRK MNT EXT CAB 4X4 (2320-01-513-8386) | A |  | - | - | - | 0.100 | 2 | 0.200 | 0.127 | 2 | 0.254 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.200 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | 2 | 0.254 |  | - | - |  | - | - |  | - | - |
| STAIRCASE TRK (1730-01-601-8086YW) | A |  | - | - | - | 0.146 | 1 | 0.146 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.146 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRUCK WRECKER TILT BED (2320-01-380-4755) | A |  | - | - | - | 0.094 | 1 | 0.094 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.094 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRUCK WRECKER 44M.4999G (2320-01-130-6353) | A |  | - | - | - | 0.420 | 2 | 0.840 | - | . | - | - | - | - | - | - | . | - | - | - |

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## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 823990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than \$5 Million |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{array}$ | 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 (\$ 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) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 2.0 .840 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRK <br> RETRIEVER 4X2 <br> (2320-01-454-0723) | A |  | - | - | - | 0.100 |  | $1 \quad 0.100$ | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | $1{ }^{1} 0.100$ |  | - | - |  | - | - |  | - | - |  | - | - |
| DEICER TRUCK MTD (1730-00-555-6205YW | A |  | - | - | - | 0.943 |  | $1 \quad 0.943$ | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | $1{ }^{1} 0.943$ |  | - | - |  | - | - |  | - | - |  | - | - |
| LAVATORY SERVICE TRK (1730-00-981-7605YW | ${ }^{\text {A }}$ |  | - | - | - | - | . | - | - | . | . | - | . | . | 0.109 | 12 | 1.311 | 0.109 | 12 | 1.311 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | 12 | 1.311 |  | 12 | 1.311 |
| TRAC ACFT TOW (1740-01-367-9485YW | ${ }^{\text {A }}$ |  | - | - | - | - | - | - | - | - | - | - | - | - | 0.314 | 16 | 5.017 | 0.314 | 16 | 5.017 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | 16 | 5.017 |  | 16 | 5.017 |
| TRK REFRGR 4X2 (2320-00-770-4467) | A |  | - | - | - | - | - | - | - | . | - | - | - | . | 0.115 | 4 | 0.460 | 0.115 | 4 | 0.460 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | 4 | 0.460 |  | 4 | 0.460 |
| TRK HYDRANT FUEL (2320-01-125-2481) | A |  | - | - | - | - | - | - | - | - | - | - | - | - | 0.211 | 4 | 0.844 | 0.211 | 4 | 0.844 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | 4 | 0.844 |  | 4 | 0.844 |
| TRK FUEL AVGAS (2320-01-597-1728) | A |  | - | - | - | - | - | - | - | . | . | - | - | . | 0.142 | 10 | 1.423 | 0.142 | 10 | ${ }^{1.423}$ |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | 10 | 1.423 |  | 10 | 1.423 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 9.781 | - | - | 4.662 | - | - | 4.623 | - | - | 16.789 | - | - | 21.412 |
| Total |  |  | - |  | - | - |  | 9.781 | - | $\cdot$ | 4.662 | - | - | 4.623 | - | - | 16.789 | - | - | 21.412 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force | Date: February 2016 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 02$ / 3 | P-1 Line Item Number / Title: <br> 823990 / Items Less Than \$5 Million | Aggregated Items Title: <br> Items Less Than \$5 Million |

## Remarks:

Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.
FY17 unit prices are subject to change.


## Footnotes:

${ }^{(1)}$ FY15 AMC OCO requirement

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## P-1 Line Item Number / Title:

824010 / FIRE FIGHTING/CRASH RESCUE VEHICLES 3080F: Other Procu
Fighting Equipment

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: N/A |  |  | Other Relat | Program E | ents: 020 | 34F, 0901279 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item M | MAIS Cod | (s): N/A |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2017$ <br> Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Millions) | - | 10.152 | 10.419 | 12.451 | 48.590 | 61.041 | 13.639 | 14.569 | 15.644 | 15.926 | - | 141.390 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 10.152 | 10.419 | 12.451 | 48.590 | 61.041 | 13.639 | 14.569 | 15.644 | 15.926 | - | 141.390 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 10.152 | 10.419 | 12.451 | 48.590 | 61.041 | 13.639 | 14.569 | 15.644 | 15.926 | - | 141.390 |
| (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 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.
 equipment access and improved storage compartments. This truck is assigned to the larger industrial bases.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 4: Fire

## P-1 Line Item Number / Title:

Fighting Equipment

| ID Code (A=Service Ready, $\mathrm{B}=$ 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 $\quad$ Item MDAP/MAIS Code(s): N/A

-- The P-31 Hazardous Material Vehicle is a dual purpose vehicle that stows and transports hazardous material response equipment for the purpose of mitigating chemical leaks, spills, and releases. This vehicle also provides an incident command workstation area for the purpose of research, command, control, and communications during containment/cleanup operations.
-- The P-33 Quint Truck is a fire fighting truck with a 75 foot aerial ladder. It provides improved agent delivery over older models as well as the capability to provide elevated delivery of agent involving high rise and warehouse facilities.
-- The P-34 is a first response Air Rescue and Fire Fighting (ARFF) vehicle which equips forces with initial "knock down" capability. The P-34 is the first fire truck to employ Ultra High Pressure (UHP) technology which allows the vehicle to discharge a mixture of water and foam at 1350 psi, this UHP technology makes the vehicle three times more effective than a conventional ARRF truck. The truck has a 400 gallon water tank and a 50 gallon foam tank along with a bumper turret and 200 feet of handline all mounted on an F-550 chassis.
-- The Rapid Intervention Vehicle (RIV) is a first response aircraft fire truck; it is the newest addition to the Air Force's fleet of crash response vehicles. The RIV is the first vehicle in the AF to use new ultra high pressure (UHP) fire fighting technology which makes this truck 3 to 3.5 times more efficient at knock-down than conventional ARFF vehicles. This feature increases the length of time the vehicle can remain on the scene without having to be resupplied. Perched on an F550 chassis, the RIV is equipped with a 4 -wheel drive train; it provides seating for four, equips fire fighters with limited storage for rescue equipment; has a bumper turret, a 200 ft hand line and a winch. Because of its size, speed and agility this truck can get to a crash scene quickly and perform fire fighting operations until the larger trucks can arrive at the scene.

These vehicles are all built to meet the performance standards of the National Fire Protection Association (NFPA), Occupational Safety and Health Administration (OSHA), Federal Aviation Administration (FAA), and Air Force safety regulations.

The FY17 funding request was reduced by $\$ 152 \mathrm{~K}$ to account for the availability of prior year execution balances.
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.

Funding for this exhibit contained in PE 0202834F and 0901279F.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 4: Fire Fighting Equipment |  |  |  |  |  | P-1 Line Item Number / Title: <br> 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \hline \end{array}$ | 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 | FIRE FIGHTING/CRASH RESCUE VEHICLES |  |  |  | - 1 - | - / 10.152 | - / 10.419 | - / 12.451 | - 148.590 | - /61.041 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1- | - /10.152 | - /10.419 | - / 12.451 | - 148.590 | - 161.041 |

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

## Justification:

FY17 funding procures, but is not limited to, 25 vehicles in support of installation and unit mission requirements for Air Force personnel
FY17 OCO dollars procure, but is not limited to, 92 vehicles in support of installation and unit mission requirements for the Air Force personnel.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 4$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 824010 / FIRE FIGHTING/CRASH RESCUE VEHICLES |  |  |  |  |  |  |  | Aggregated Items Title: <br> FIRE FIGHTING/CRASH RESCUE <br> VEHICLES |  |  |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
|  |  |  | Unit Cost <br> (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | 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) | 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 (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TRUCK, AERIAL P-21 4210-01-057-0696 | A |  | - | - | - | - | - | - | 913,063.00 | 1 | 0.913 | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \hline \text { TRUCK, PUMPER } \\ & 4 \times 2 \text { P-22 } \\ & 4210-00-224-4564 \end{aligned}$ | A |  | - | - | - | 382,000.00 | 7 | $7 \quad 2.674$ | 417,088.00 | 3 | 1.251 | 419,105.00 | 2 | 0.838 | 419,105.00 | 16 | 6.706 | 419,105.00 | 18 | 7.544 |
| TRUCK, CRASH P-23 4210-00-702-6801 | A |  | - | - | - | - | - | - | 875,216.00 | 1 | 0.875 | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { TRUCK, PUMPER } \\ & \text { 4X4 P-24 } \\ & 4210-00-233-1538 \end{aligned}$ | A |  | - | - | - | 397,000.00 | 4 | $4 \quad 1.588$ | 449,024.00 | 2 | 0.898 | 451,120.00 | 3 | 1.353 | 451,120.00 | 17 | 7.669 | 451,120.00 | 20 | 9.022 |
| TRUCK, WATER TANKER P-26 4210-01-356-4907 | A |  | - | - | - | 299,807.00 | 1 | $1 \quad 0.300$ | 304,500.00 | 1 | 0.305 | 306,500.00 | 4 | 1.226 | 306,500.00 | 4 | 1.226 | 306,500.00 | 8 | 2.452 |
| VEHICLE, MEDIUM RESCUE P-30 4210-01-452-5121 | A |  | - | - | - | - | - | - | - | - | - | 255,088.00 | 1 | 0.255 | - | - | - | 255,088.00 | 1 | 0.255 |
| TRUCK, QUINT P-33 4210-01-500-1083 | A |  | - | - | - | 618,770.00 | 2 | $2 \quad 1.237$ | - | - | - | 618,770.00 | 1 | 0.619 | 618,770.00 | 13 | 8.044 | 618,770.00 | 14 | 8.663 |
| TRUCK, <br> WILDLAND P-29 <br> 4210-01-483-1025 | A |  | - | - | - | - | - | - | 338,082.00 | 2 | 0.676 | 340,143.00 | 1 | 0.340 | - | - | - | 340,143.00 | 1 | 0.340 |
| TRUCK, HEAVY RESCUE P-28 4210-01-369-6048 | A |  | - | - | - | - | - | - | 463,285.00 | 1 | 0.463 | - | - | - | 458,333.00 | 1 | 0.458 | 458,333.00 | 1 | 0.458 |
| TRUCK, QUICK ATTACK P-34 4210-01-553-4534 | A |  | - | - | - | - | - | - | - | - | - | 203,470.00 | 1 | 0.203 | - | - | - | 203,470.00 | 1 | 0.203 |
| TRUCK, HAZMAT FIRE FIGHTING P31 4210-01-396-5219 | A |  | - | - | - | 461,000.00 | 1 | $1 \quad 0.461$ | 461,000.00 | 1 | 0.461 | 461,292.00 | 1 | 0.461 | 461,292.00 | 11 | 5.074 | 461,292.00 | 12 | 5.536 |
| $\begin{aligned} & \text { TRUCK, ARFF } \\ & \text { P19UHP } \\ & 4210-01-608-7285 \end{aligned}$ | A |  | - | - | - | 627,328.00 |  | $3 \quad 1.882$ | 629,281.00 | 3 | 1.888 | 620,179.00 | 5 | 3.101 | 620,179.00 | 15 | 9.303 | 620,179.00 | 20 | 12.404 |
| $\begin{aligned} & \text { TRUCK, ARFF } \\ & \text { P23UHP } \\ & 4210-01-608-7287 \end{aligned}$ | A |  | - | - | - | 667,010.00 |  | $3 \quad 2.001$ | 670,272.00 | 4 | 2.681 | 674,000.00 | 6 | 4.044 | 674,000.00 | 15 | 10.110 | 674,000.00 | 21 | 14.154 |
| PMA OTHER GOVERNMENT costs | A |  | - | - | - | - | - | 0.009 | - | - | 0.008 | - | - | 0.010 | - | - | - | - | - | 0.010 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 10.152 | - | - | 10.419 | - | - | 12.451 | - | - | 48.590 | - | - | 61.041 |
| Total |  |  | - | - | - | - | - | 10.152 | - | - | 10.419 | - | - | 12.451 | - | - | 48.590 | - | - | 61.041 |

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## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force | Date: February 2016 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 02$ / 4 | P-1 Line Item Number / Title: <br> 824010 / FIRE FIGHTING/CRASH RESCUE VEHICLES | Aggregated Items Title: <br> FIRE FIGHTING/CRASH RESCUE <br> VEHICLES |

Remarks:
Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.
Unit Costs for FY17 are subject to change
PMA Justification


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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 5: Materials Handling Equipment
Materials Handling Equipment
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
825990 / Items Less Than $\$ 5$ Million

| 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 20.239 | 23.320 | 18.114 | 2.366 | 20.480 | 10.516 | 17.193 | 17.357 | 17.810 | - | 126.915 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 20.239 | 23.320 | 18.114 | 2.366 | 20.480 | 10.516 | 17.193 | 17.357 | 17.810 | - | 126.915 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 20.239 | 23.320 | 18.114 | 2.366 | 20.480 | 10.516 | 17.193 | 17.357 | 17.810 | - | 126.915 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - |  |

## Description:

FY15 funding totals include $\$ 5.131 \mathrm{M}$ for Overseas Contingency Operations.
 critical to depot and base supply operations.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for these exhibits contained in PEs: 0202834F, 0207597F, 0208028F, 0401221F, 0402834F, 0502834F, 0702831F

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 136 | 148 | 134 | 23 | 157 | 69 | 115 | 118 | 128 |
|  | Total Obligation Authority | 20.239 | 20.505 | 15.297 | 2.366 | 17.663 | 7.681 | 13.734 | 12.667 | 13.048 |
| AFNG | Quantity | - | - | - | - | - | - | 12 | 9 | 30 |
|  | Total Obligation Authority | - | - | - | - | - | - | 0.622 | 1.817 | 1.815 |
| AFR | Quantity | - | 22 | 31 | - | 31 | 34 | 21 | 37 | 34 |
|  | Total Obligation Authority | - | 2.815 | 2.817 | - | 2.817 | 2.835 | 2.837 | 2.873 | 2.947 |
| Total: <br> Secondary Distribution | Quantity | 136 | 170 | 165 | 23 | 188 | 103 | 148 | 164 | 192 |
|  | Total Obligation Authority | 20.239 | 23.320 | 18.114 | 2.366 | 20.480 | 10.516 | 17.193 | 17.357 | 17.810 |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 5: Materials Handling Equipment |  |  |  |  |  | P-1 Line Item Number / Title: 825990 / Items Less Than \$5 Million |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready) |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line It | m MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit | Title* |  | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \end{aligned}$ | 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 | Items Less Than \$5 Million |  |  |  | - 1 - | - 120.239 | - 123.320 | - /18.114 | - 12.366 | - 120.480 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 120.239 | - 123.320 | - / 18.114 | - 12.366 | - 120.480 |

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

## Justification:

FY17 funding procures, but is not limited to 149 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY17 OCO dollars procure, but is not limited to 23 vehicles in support of Overseas Contingency Operations.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Items Less Than \$5 Million |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 825990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> mals <br> code | Unit Cost (\$) | Qty (Each) | Total Cost (\$M) | Unit Cost <br> (8) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ 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 Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13K AT NUC CERT FORKLIFT 011260457 | A |  | - | - | - | 241,149.00 | 2 | 20.482 | 243,175.00 | 7 | 1.702 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 2.0 .482 |  | 7 | 1.702 |  | - | - |  | - | - |  | - | - |
| FORKLIFT, 4K ELECTRIC STANDARD 000539175 | A |  | - | . | - | 40,260.00 | 1 | 10.040 | 42,257.00 | 3 | 0.127 | 45,800.00 | 5 | 0.229 | - | . | . | 45,800.00 | 5 | 0.229 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | $1{ }^{1} 0.040$ |  | 2 | 0.085 |  | 4 | 0.183 |  | - | - |  | 4 | 0.183 |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.042 |  | 1 | 0.046 |  | - | - |  | 1 | 0.046 |
| FORKLIFT, 2K ELECTRIC STANDARD 006782580 | A |  | - | - | - | - | - | . | - | - | - | 31,090.00 | 2 | 0.062 | - | . | - | 31,090.00 | 2 | 0.062 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.062 |  | - | - |  | 2 | 0.062 |
| $\begin{aligned} & \hline \text { FORKLIFT, 4K DED } \\ & 010130338 \\ & \hline \end{aligned}$ | A |  | - | - | - | 42,289.00 | 4 | 4.0 .169 | 43,250.00 | 8 | 0.346 | 44,090.00 | 12 | 0.529 | - | - | - | 44,090.00 | 12 | 0.529 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 4.0 .169 |  | 4 | 0.173 |  | 10 | 0.441 |  | - | - |  | 10 | 0.441 |
| AFR |  |  |  | - | - |  | - | - |  | 4 | 0.173 |  | 2 | 0.088 |  | - | - |  | 2 | 0.088 |
| FORKLIFT, 4K COMMERCIAL $014330885^{(1)}$ | A |  | - | - | . | 40,500.00 | 2 | 20.081 | 41,000.00 | 6 | 0.246 | 42,900.00 | 11 | 0.472 | - | . | . | 42,900.00 | 11 | 0.472 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 2.0 .081 |  | 4 | 0.164 |  | 11 | 0.472 |  | - | - |  | 11 | 0.472 |
| AFR |  |  |  | - | - |  | - | - |  | 2 | 0.082 |  | - | - |  | - | - |  | - | - |
| FORKLIFT, 15K COMMERCIAL 010471597 | A |  | - | . | . | - | . | . | 80,000.00 | 2 | 0.160 | 87,000.00 | 4 | 0.348 | - | . | - | 87,000.00 | 4 | 0.348 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.080 |  | 2 | 0.174 |  | - | - |  | 2 | 0.174 |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.080 |  | 2 | 0.174 |  | - | - |  | 2 | 0.174 |
| FORKLIFT, 6K RT 008792157 | A |  | - | - | - | - | - | - | - | - | - | 123,800.00 | 1 | 0.124 | - | - | - | 123,800.00 | 1 | 0.124 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 1 | 0.124 |  | - | - |  | 1 | 0.124 |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 5$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 825990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \\ & \hline \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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 <br> (\$ 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 <br> (\$) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| TRUCK MOUNTED CONVEYOR BELT 000195630 | A |  | - | - | - | - | - | - | - | - | - | 57,394.00 | 3 | 0.172 | 57,394.00 | 7 | 0.402 | 57,394.00 | 10 | 0.574 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.115 |  | 7 | 0.402 |  | 9 | 0.517 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.057 |  | - | - |  | 1 | 0.057 |
| TRUCK, FORKLIFT NARROW AISLE 6K 014214083 | A |  | - | - | - | - | - | - | - | - | - | 143,000.00 | 1 | 0.143 | - | - | - | 143,000.00 | 1 | 0.143 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.143 |  | - | - |  | 1 | 0.143 |
| $\begin{aligned} & \text { FORKLIFT, 6K DED } \\ & 010525219 \end{aligned}$ | A |  | - | - | - | 47,243.00 | 9 | 0.425 | 49,411.00 | 35 | 1.729 | 51,920.00 | 16 | 0.831 | 51,920.00 | 5 | 0.260 | 51,920.00 | 21 | 1.090 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 9 | 0.425 |  | 35 | 1.729 |  | 16 | 0.831 |  | 5 | 0.260 |  | 21 | 1.090 |
| 4K AT 23.5FT RT BOOM FL 012104756 | A |  | - | - | - | - | - | - | - | - | - | 120,770.00 | 2 | 0.242 | - | - | - | 120,770.00 | 2 | 0.242 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.242 |  | - | - |  | 2 | 0.242 |
| 6K FORKLIFT COMMERCIAL 014330887 | A |  | - | - | - | 40,496.00 | 3 | 0.121 | 41,352.00 | 9 | 0.372 | 42,490.00 | 15 | 0.637 | - | - | - | 42,490.00 | 15 | 0.637 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 3 | 0.121 |  | 9 | 0.372 |  | 12 | 0.510 |  | - | - |  | 12 | 0.510 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 3 | 0.127 |  | - | - |  | 3 | 0.127 |
| FAT 10K FORKLIFT AT 004889695 | A |  | - | - | - | 206,000.00 | 10 | 2.060 | 208,762.00 | 21 | 4.384 | 209,940.00 | 17 | 3.569 | 209,940.00 | 6 | 1.260 | 209,940.00 | 23 | 4.829 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 10 | 2.060 |  | 11 | 2.296 |  | 13 | 2.729 |  | 6 | 1.260 |  | 19 | 3.989 |
| AFR |  |  |  | - | - |  | - | - |  | 10 | 2.088 |  | 4 | 0.840 |  | - | - |  | 4 | 0.840 |
| 10K STANDARD FORKLIFT 008566897 | A |  | - | - | - | 84,625.00 | 27 | 2.285 | 87,417.00 | 12 | 1.049 | 89,000.00 | 44 | 3.916 | 89,000.00 | 5 | 0.445 | 89,000.00 | 49 | 4.361 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 27 | 2.285 |  | 8 | 0.699 |  | 29 | 2.581 |  | 5 | 0.445 |  | 34 | 3.026 |
| AFR |  |  |  | - | - |  | - | - |  | 4 | 0.350 |  | 15 | 1.335 |  | - | - |  | 15 | 1.335 |
| 3K ELECTRIC FORKLIFT 011022185 | A |  | - | - | - | - | . | - | - | - | - | 24,800.00 | 1 | 0.025 | - | . | . | 24,800.00 | 1 | 0.025 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.025 |  | - | - |  | 1 | 0.025 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 825990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | Unit Cost (\$) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | 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 <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 6K ELECTRIC F/L 010471157 | A |  | - | - | - | - | - | - | - | - | - | 40,930.00 | 1 | 0.041 | - | - | - | 40,930.00 | 1 | 0.041 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.041 |  | - | - |  | 1 | 0.041 |
| 10K 55' REACH TELEHANDLER $015769312^{(2)}$ | A |  | - | - | - | 194,301.00 | 74 | 14.378 | 196,662.00 | 67 | 13.176 | 198,390.00 | 8 | 1.587 | - | - | - | 198,390.00 | 8 | 1.587 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 74 | 14.378 |  | 67 | 13.176 |  | 8 | 1.587 |  | - | - |  | 8 | 1.587 |
| 4K WHSE TRAC 010070115 | A |  | - | - | - | 48,127.00 | 4 | 0.193 | - | - | - | 49,750.00 | 8 | 0.398 | - | - | - | 49,750.00 | 8 | 0.398 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 0.193 |  | - | - |  | 5 | 0.249 |  | - | - |  | 5 | 0.249 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 3 | 0.149 |  | - | - |  | 3 | 0.149 |
| TRK CNTR LIFT SIDELOAD 012280190 | A |  | - | - | - | - | - | - | - | - | - | 466,500.00 | 4 | 1.866 | - | - | - | 466,500.00 | 4 | 1.866 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 4 | 1.866 |  | - | - |  | 4 | 1.866 |
| $\begin{aligned} & \hline \text { 20K DED F/L } \\ & 010396763 \\ & \hline \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | - | 155,000.00 | 1 | 0.155 | - | - | - | 155,000.00 | 1 | 0.155 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.155 |  | - | - |  | 1 | 0.155 |
| 3K ELECTRIC 011028903 | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { TRK FL } 22000 \text { DED } \\ & 012203657 \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | - | 178,000.00 | 1 | 0.178 | - | - | - | 178,000.00 | 1 | 0.178 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.178 |  | - | - |  | 1 | 0.178 |
| TRK F/L 50000 ATCNTR 013073658 | A |  | - | - | - | - | - | - | - | - | - | 740,630.00 | 2 | 1.481 | - | - | - | 740,630.00 | 2 | 1.481 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 1.481 |  | - | - |  | 2 | 1.481 |
| $\begin{aligned} & \text { 25K FORKLIFT } \\ & 013904562 \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | - | 215,730.00 | 5 | 1.079 | - | - | - | 215,730.00 | 5 | 1.079 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 5 | 1.079 |  | - | - |  | 5 | 1.079 |
| TRK F/L 2K COMM 014555463 | A |  | - | - | - | - | - | - | - | - | - | 29,500.00 | 1 | 0.030 | - | - | - | 29,500.00 | 1 | 0.030 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.030 |  | - | - |  | 1 | 0.030 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Items Less Than \$5 Million |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 825990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAPI MAIS Code | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| TRK F/L ELEC SEATED 3K 014981187 | A |  | . | . | 0.000 | - |  | - . | - | . | . | - | . | . | . | . | . | - | . | . |
| TRK F/L 12K ELEC 015027497 | A |  | - | - | 0.000 | - |  | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| PMA OTHER GOVERNMENT COSTS | A |  | - | - | - | - |  | 0.004 | - | - | 0.028 | - | - | 0.001 | - | - | - | - | - | 0.001 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 0.004 |  | - | 0.028 |  | - | 0.001 |  | - | - |  | - | 0.001 |
| Subtotal: Uncategorize |  |  | - | - | - | - |  | 20.239 | - | - | 23.320 | - | - | 18.114 | - | - | 2.366 | - | - | 20.480 |
| Total |  |  | $\cdot$ | - | - | - |  | - 20.239 | - | - | 23.320 | - | - | 18.114 | - | - | 2.366 | - | - | 20.480 |
| 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 cost for FY17 are subject to change. <br> PMA JUSTIFICATION: <br> PROGRAM MANAGEMENT ADMINISTRATION (PMA): PMA supports the operation of the program office in its management and oversight role via travel, procurement of supplies and Advisory and Administrative Services (A\&AS) <br> Footnotes: <br> ${ }^{(1)} \mathrm{FY} 15 \mathrm{OCO} \$ .061 \mathrm{M}$ <br> ${ }^{(2)}$ FY15 OCO $\$ 5.070 \mathrm{M}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
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:

826210 / Runway Snow Remov \& Cleaning Equip Maintenance Support

| 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 11.946 | 6.215 | 2.310 | 6.468 | 8.778 | 3.792 | 2.976 | 2.970 | 3.024 | - | 39.701 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 11.946 | 6.215 | 2.310 | 6.468 | 8.778 | 3.792 | 2.976 | 2.970 | 3.024 | - | 39.701 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 11.946 | 6.215 | 2.310 | 6.468 | 8.778 | 3.792 | 2.976 | 2.970 | 3.024 | - | 39.701 |
| (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:

FY15 funding totals include $\$ 1.734 \mathrm{M}$ in Overseas Contingency Operations.


 FOD-related engine accidents.
 closing of airfields due to debris and/or snow and ice buildup.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs: 0202834F, 0208028F, 0402834F, 0502834F, 0502844F, 0702831F.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2017$ Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 48 | 31 | 6 | 38 | 44 | 10 | 6 | 6 | 6 |
|  | Total Obligation Authority | 9.754 | 5.339 | 1.896 | 6.468 | 8.364 | 3.372 | 2.548 | 2.535 | 2.582 |
| AFNG | Quantity | 6 | 5 | 2 | - | 2 | 2 | 2 | 2 | 2 |
|  | Total Obligation Authority | 1.888 | 0.730 | 0.340 | - | 0.340 | 0.359 | 0.365 | 0.371 | 0.377 |
| AFR | Quantity | 2 | 2 | 1 | - | 1 | 1 | 1 | 1 | 1 |
|  | Total Obligation Authority | 0.304 | 0.146 | 0.074 | - | 0.074 | 0.061 | 0.063 | 0.064 | 0.065 |

LI 826210 - Runway Snow Remov \& Cleaning Equip Air Force

## UNCLASSIFIED

Page 1 of 5

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> 826210 / Runway Snow Remov \& Cleaning 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | FY 2017 <br> Base | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Total: | Quantity | 56 | 38 | 9 | 38 | 47 | 13 |  | 9 | 9 |
| Secondary Distribution | Total Obligation Authority | 11.946 | 6.215 | 2.310 | 6.468 | 8.778 | 3.792 | 2.976 | 2.970 | 3.024 |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> 826210 / Runway Snow Remov \& Cleaning Equip |  |  |  |  |
| 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | Runway Snow Remov \& Cleaning Equip |  |  |  | - 1 | - /11.946 | - 16.215 | - 12.310 | - 16.468 | - 18.778 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - / 11.946 | - 16.215 | - 12.310 | - 16.468 | - 18.778 |

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

## Justification:

FY17 funding procures, but is not limited to, 9 vehicles in support of installation and unit mission requirements for Air Force Personnel.
FY17 OCO funding procures, but is not limited to, 38 vehicles in support of Overseas contingency operations.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 02 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826210 / Runway Snow Remov \& Cleaning Equip |  |  |  |  |  |  |  | Aggregated Items Title: <br> Runway Snow Remov \& Cleaning Equip |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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 <br> (\$ 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 (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLEANER, VAC MULTIPURPOSE $(2438)^{(1)}$ | A |  | - | - | - | 152,000.00 | 26 | 3.952 | 164,131.00 | 28 | 4.596 | 170,000.00 | 2 | 0.340 | 170,000.00 | 20 | 3.400 | 170,000.00 | 22 | 3.740 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 23 | 3.496 |  | 24 | 3.939 |  | - | - |  | 20 | 3.400 |  | 20 | 3.400 |
| AFNG |  |  |  | - | - |  | 1 | 0.152 |  | 4 | 0.657 |  | 2 | 0.340 |  | - | - |  | 2 | 0.340 |
| AFR |  |  |  | - | - |  | 2 | 0.304 |  | - | - |  | - | - |  | - | - |  | - | - |
| RAPID RUNWAY REPAIR DIRT SWEEPER (1997) ${ }^{(2)}$ | A |  | - | - | - | 72,000.00 | 13 | 0.936 | 73,233.00 | 5 | 0.366 | 74,071.00 | 2 | 0.148 | 74,071.00 | 10 | 0.741 | 74,071.00 | 12 | 0.889 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 12 | 0.864 |  | 2 | 0.146 |  | 1 | 0.074 |  | 10 | 0.741 |  | 11 | 0.815 |
| AFNG |  |  |  | - | - |  | 1 | 0.072 |  | 1 | 0.073 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | 2 | 0.146 |  | 1 | 0.074 |  | - | - |  | 1 | 0.074 |
| 54K PLOW (7657) | A |  | - | - | - | 307,000.00 | 1 | 0.307 | 310,720.00 | 1 | 0.311 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.307 |  | 1 | 0.311 |  | - | - |  | - | - |  | - | - |
| DUMP W/SNOW PLOW (3963) | A |  | - | - | - | 194,000.00 | 2 | 0.388 | 195,000.00 | 1 | 0.195 | - | - | - | 215,830.00 | 6 | 1.295 | 215,830.00 | 6 | 1.295 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.194 |  | 1 | 0.195 |  | - | - |  | 6 | 1.295 |  | 6 | 1.295 |
| AFNG |  |  |  | - | - |  | 1 | 0.194 |  | - | - |  | - | - |  | - | - |  | - | - |
| SNOW BROOM AND BLOWER (3770) | A |  | - | - | - | 435,000.00 | 2 | 0.870 | - | - | - | 516,154.00 | 1 | 0.516 | 516,154.00 | 2 | 1.032 | 516,154.00 | 3 | 1.548 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.870 |  | - | - |  | 1 | 0.516 |  | 2 | 1.032 |  | 3 | 1.548 |
| SNOW REMOVAL UNIT 3K TON PER HOUR (5554) | A |  | - | - | - | 490,000.00 | 9 | 4.410 | - | - | - | 522,184.00 | 1 | 0.522 | - | - | - | 522,184.00 | 1 | 0.522 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 6 | 2.940 |  | - | - |  | 1 | 0.522 |  | - | - |  | 1 | 0.522 |
| AFNG |  |  |  | - | - |  | 3 | 1.470 |  | - | - |  | - | - |  | - | - |  | - | - |
| 45K REVERSIBLE <br> PLOW (1944) ${ }^{(3)}$ | A |  | - | - | - | 357,000.00 | 3 | 1.071 | 372,663.00 | 2 | 0.745 | 390,006.00 | 2 | 0.780 | - | - | - | 390,006.00 | 2 | 0.780 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 3 | 1.071 |  | 2 | 0.745 |  | 2 | 0.780 |  | - | - |  | 2 | 0.780 |
| PMA OTHER GOVERNMENT COSTS | A |  | - | - | - | - | - | 0.012 | 2,000.00 | 1 | 0.002 | 4,000.00 | 1 | 0.004 | - | - | - | 4,000.00 | 1 | 0.004 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826210 / Runway Snow Remov \& Cleaning Equip |  |  |  |  |  |  |  | Aggregated Items Title: <br> Runway Snow Remov \& Cleaning Equip |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | Prior Year |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Bas |  |  | FY 2017 OC |  |  | Y 2017 Total |  |  |
| Item Number / Title [DODIC] |  | MDAP/ MAIS code | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | 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) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  |  |  |  |  | 0.012 |  |  | 0.002 |  |  | 0.004 |  | - |  |  | 1 | 0.004 |
| Subtotal: Uncategorized |  |  |  |  |  |  |  | 11.946 |  |  | 6.215 |  |  | 2.310 |  |  | 6.468 |  |  | 8.77 |
| Total |  |  |  |  |  |  |  | 11.946 |  |  | 6.215 |  |  | 2.310 |  |  | 6.468 | - | - | 8.778 |
| 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 FY17 are subject to change. <br> PROGRAM MANAGEMENT ADMINISTRATION (PMA): PMA supports the operation of the program office in its management and oversight role via travel, procurement of supplies and Advisory and Administrative Services (A\&AS). <br> Footnotes: <br> ${ }^{(1)}$ FY15 OCO Airfield Damage Repair <br> ${ }^{(2)}$ FY15 OCO Airfield Damage Repair <br> ${ }^{(3)}$ FY15 OCO AMC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## P-1 Line Item Number / Title:

826990 / Items Less Than $\$ 5$ Million

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base Maintenance Support

| 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 57.069 | 87.781 | 46.868 | 9.271 | 56.139 | 60.982 | 60.636 | 61.029 | 62.076 | - | 445.712 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 57.069 | 87.781 | 46.868 | 9.271 | 56.139 | 60.982 | 60.636 | 61.029 | 62.076 | - | 445.712 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 57.069 | 87.781 | 46.868 | 9.271 | 56.139 | 60.982 | 60.636 | 61.029 | 62.076 | - | 445.712 |
| (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:

FY15 funding totals include $\$ 22.0 \mathrm{M}$ appropriated for Overseas Contingency Operations.


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

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 399 | 515 | 237 | 77 | 314 | 352 | 399 | 396 | 399 |
|  | Total Obligation Authority | 57.069 | 85.441 | 44.137 | 9.271 | 53.408 | 58.250 | 57.937 | 58.275 | 59.275 |
| AFNG | Quantity | - | 8 | 9 | - | 9 | 25 | 24 | 13 | 11 |
|  | Total Obligation Authority | - | 2.060 | 2.404 | - | 2.404 | 2.404 | 2.378 | 2.424 | 2.462 |
| AFR | Quantity | - | 5 | 6 | - | 6 | 4 | 3 | 5 | 5 |
|  | Total Obligation Authority | - | 0.281 | 0.327 | - | 0.327 | 0.328 | 0.321 | 0.329 | 0.339 |
| Total: | Quantity | 399 | 528 | 252 | 77 | 329 | 381 | 426 | 414 | 415 |

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 826990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |
| 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 | de: N/A $\quad$ Item | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Secondary Distribution | Total Obligation Authority | 57.069 | 87.781 | 46.868 | 9.271 | 56.139 | 60.982 | 60.636 | 61.029 | 62.076 |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 / Items Less Than $\$ 5$ Million |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Read): |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line It | m MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | Items Less Than \$5 Million |  |  |  | - 1 - | - / 57.069 | - 187.781 | - /46.868 | - 19.271 | - / 56.139 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 - | - 157.069 | - 187.781 | - /46.868 | - 19.271 | - 156.139 |

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

## Justification:

FY17 funding procures, but is not limited to 252 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY17 OCO funding procures, but is not limited to 77 vehicles in support of Overseas Contingency Operations.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 826990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Year |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (8) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DUMP TRUCK, 6X4, 64k GVW (2320-01-524-6043) | A |  | - | - | - | 161,683.00 | 1 | 0.162 | 163,600.00 | 1 | 0.164 | 163,683.00 | 2 | 0.327 | - | - | - | 163,683.00 | 2 | 0.327 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.162 |  | 1 | 0.164 |  | 2 | 0.327 |  | - | - |  | 2 | 0.327 |
| BATCHING PLANT (3895-01-063-2722) | A |  | - | - | - | 1,522K | 1 | 1.522 | 1,522k | 1 | 1.522 | - | - | - | - | - | - | - | - |  |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 1.522 |  | 1 | 1.522 |  | - | - |  | - | - |  | - |  |
| TRNHR FRA MTD (3805-01-068-4303) | A |  | - | - | - | 155,656.00 | 1 | 0.156 | 156,600.00 | 1 | 0.157 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.156 |  | 1 | 0.157 |  | - | - |  | - | - |  | - |  |
| TRENCHER 45HP (3805-01-395-2699) | A |  | - | - | - | 116,612.00 | 1 | 0.117 | 120,600.00 | 1 | 0.121 | - | - | - | - | - | - | - | - |  |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.117 |  | 1 | 0.121 |  | - | - |  | - | - |  | - |  |
| MKR TRAFFIC (3825-00-542-2515) | A |  | - | - | - | 310,000.00 | 1 | 0.310 | - | - | - | 310,000.00 | 1 | 0.310 | - | - | - | 310,000.00 | 1 | 0.310 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.310 |  | - | - |  | 1 | 0.310 |  | - | - |  | 1 | 0.310 |
| TRK PIPE SEWER CLNR (2320-00-196-0811) | A |  | - | - | - | 225,736.00 | 1 | 0.226 | - | - | - | - | - | - | - | - | - | - | - | . |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.226 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRAC WHLD IND 4WD (2420-01-205-8579) | A |  | - | - | - | 48,990.00 | 3 | 0.147 | 53,300.00 | 5 | 0.267 | 53,312.00 | 4 | 0.213 | - | - | - | 53,312.00 | 4 | 0.213 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 3 | 0.147 |  | 5 | 0.267 |  | 4 | 0.213 |  | - | - |  | 4 | 0.213 |
| TRAC FTRACD SZT4 (2410-00-166-4176) | A |  | - | - | - | 118,239.00 | 1 | 0.118 | - | - | - | 118,239.00 | 1 | 0.118 | - | - | - | 118,239.00 | 1 | 0.118 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.118 |  | - | - |  | 1 | 0.118 |  | - | - |  | 1 | 0.118 |
| 25T R TERRAIN (3810-01-479-9745) | A |  | - | - | - | 375,000.00 | 1 | 0.375 | 375,000.00 | 2 | 0.750 | 375,000.00 | 7 | 2.625 | - | - | - | 375,000.00 | 7 | 2.625 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.375 |  | 2 | 0.750 |  | 7 | 2.625 |  | - | - |  | 7 | 2.625 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 826990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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 (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| FRONT HOIST REF TRK (2320-01-470-6102) | A |  | - | - | - | 208,124.00 | 1 | 0.208 | - | - | - | 208,124.00 | 1 | 0.208 | - | - | - | 208,124.00 | 1 | 0.208 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.208 |  | - | - |  | 1 | 0.208 |  | - | - |  | 1 | 0.208 |
| SCOOP LOADER (3805-00-260-1967) | A |  | - | - | - | 135,225.00 | 1 | 0.135 | 148,500.00 | 2 | 0.297 | 148,527.00 | 3 | 0.446 | - | - | - | 148,527.00 | 3 | 0.446 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.135 |  | 2 | 0.297 |  | 3 | 0.446 |  | - | - |  | 3 | 0.446 |
| TRK DP 24000-33000G 4X2 (2320-00-833-6117) | A |  | - | - | - | 79,917.00 | 5 | 0.400 | 81,500.00 | 3 | 0.245 | 81,599.00 | 6 | 0.490 | - | - | - | 81,599.00 | 6 | 0.490 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 0.400 |  | 2 | 0.163 |  | 6 | 0.490 |  | - | - |  | 6 | 0.490 |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 0.082 |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \text { 8.5T CRANE } \\ & \text { (3810-01-538-4647) } \end{aligned}$ | A |  | - | - | - | 140,974.00 | 1 | 0.141 | - | - | - | 145,974.00 | 1 | 0.146 | - | - | - | 145,974.00 | 1 | 0.146 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.141 |  | - | - |  | 1 | 0.146 |  | - | - |  | 1 | 0.146 |
| CARRIER <br> CARGO 4PAX <br> (2350-01-615-0415) | A |  | - | - | - | 164,760.00 | 1 | 0.165 | - | - | - | 164,760.00 | 1 | 0.165 | - | - | - | 164,760.00 | 1 | 0.165 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.165 |  | - | - |  | 1 | 0.165 |  | - | - |  | 1 | 0.165 |
| DUMP TRK W/ SNOWPLOW (2320-01-206-9156) | A |  | - | - | - | 136,568.00 | 1 | 0.137 | - | - | - | 136,568.00 | 1 | 0.137 | - | - | - | 136,568.00 | 1 | 0.137 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.137 |  | - | - |  | 1 | 0.137 |  | - | - |  | 1 | 0.137 |
| 5 TON DUMP TRUCK (2320-00-706-5348) | A |  | - | - | - | 107,531.00 | 4 | 0.430 | 107,530.00 | 1 | 0.108 | 107,531.00 | 1 | 0.108 | - | - | - | 107,531.00 | 1 | 0.108 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 0.430 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 0.108 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.108 |  | - | - |  | 1 | 0.108 |
| 2.5 CY SCOOP LOADER FT (3805-00-728-9718) | A |  | - | - | - | 251,022.00 | 1 | 0.251 | 251,000.00 | 3 | 0.753 | 251,022.00 | 1 | 0.251 | - | - | - | 251,022.00 | 1 | 0.251 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.251 |  | 3 | 0.753 |  | 1 | 0.251 |  | - | - |  | 1 | 0.251 |
| EXCAVATOR DIESEL ENGINE DRIVEN PT | A |  | - | - | - | 257,373.00 | 23 | 5.920 | 229,840.00 | 27 | 6.206 | 239,849.00 | 8 | 1.919 | 239,848.00 | 19 | 4.557 | 239,848.30 | 27 | 6.476 |

LI 826990 - Items Less Than $\$ 5$ Million Air Force

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## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Items Less Than \$5 Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & C D \end{aligned}$ | mDAP/ MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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) | 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) |
| $\begin{aligned} & \text { (3805-01-106-7176) } \\ & \text { (1) } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 23 | 5.920 |  | 27 | 6.206 |  | 8 | 1.919 |  | 19 | 4.557 |  | 27 | 6.476 |
| WHEELED DITCHING MACHINE (3805-01-032-9974) | A |  | - | - | - | - | - | - | - | - | - | 143,838.00 | 6 | 0.863 | - | - | - | 143,838.00 | 6 | 0.863 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 6 | 0.863 |  | - | - |  | 6 | 0.863 |
| 1.5 CY SCOOP LDR W/Q CPLR (3805-01-074-8111) | A |  | - | - | - | 117,220.00 | 1 | 0.117 | 125,320.00 | 1 | 0.125 | 125,326.00 | 3 | 0.376 | - | - | - | 125,326.00 | 3 | 0.376 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.117 |  | 1 | 0.125 |  | 3 | 0.376 |  | - | - |  | 3 | 0.376 |
| 4 CY SCOOP LDR PT (3805-01-075-1816) (2) | A |  | - | - | - | 228,930.00 | 28 | 6.410 | 228,930.00 | 23 | 5.265 | 228,930.00 | 5 | 1.145 | - | - | - | 228,930.00 | 5 | 1.145 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 28 | 6.410 |  | 23 | 5.265 |  | 5 | 1.145 |  | - | - |  | 5 | 1.145 |
| $\begin{aligned} & \text { SCOOP LDR } \\ & \text { W/BKHOE } \\ & (3805-00-148-2169) \end{aligned}$ | A |  | - | - | - | 80,952.00 | 1 | 0.081 | 82,952.00 | 4 | 0.332 | 82,952.00 | 10 | 0.830 | - | - | - | 82,952.00 | 10 | 0.830 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.081 |  | 3 | 0.249 |  | 10 | 0.830 |  | - | - |  | 10 | 0.830 |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 0.083 |  | - | - |  | - | - |  | - | - |
| SCOOP LOADER, SKID STEER 1CY (3805-01-257-5636) | A |  | - | - | - | 46,594.00 | 1 | 0.047 | 119,172.00 | 4 | 0.477 | 119,172.00 | 4 | 0.477 | - | - | - | 119,172.00 | 4 | 0.477 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.047 |  | 4 | 0.477 |  | 4 | 0.477 |  | - | - |  | 4 | 0.477 |
| DISTR BIT TRK MTD (3895-00-352-8105) | A |  | - | - | - | - | - | - | 153,987.00 | 1 | 0.154 | 153,987.00 | 1 | 0.154 | - | - | - | 153,987.00 | 1 | 0.154 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.154 |  | 1 | 0.154 |  | - | - |  | 1 | 0.154 |
| PAVING MACH BITU (3895-01-057-5288) | A |  | - | - | - | - | - | - | 327,568.00 | 3 | 0.983 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 2 | 0.655 |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 0.328 |  | - | - |  | - | - |  | - | - |
| ROLLER MOT PT SP 15T (3895-00-078-5898) | A |  | - | - | - | 72,450.00 | 7 | 0.507 | 86,722.00 | 23 | 1.995 | 86,722.00 | 4 | 0.347 | - | - | - | 86,722.00 | 4 | 0.347 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Items Less Than \$5 Million |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 826990 / Items Less Than \$5 Million |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 7 0.507 |  | ${ }^{23}$ | 1.995 |  | 4 | 0.347 |  | - | - |  | 4 | 0.347 |
| RLR RD MTZ TANDEM (3895-00-243-6797) | A |  | - | - | - | - | - | . | . | . | - | 33,417.00 | 1 | 0.033 | . | - | - | 33,417.00 | 1 | 0.033 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.033 |  | - | - |  | 1 | 0.033 |
| $\begin{aligned} & \hline \text { RLR VIB TYPE II } \\ & (3895-01-071-5625) \\ & \hline \end{aligned}$ | A |  | - | - | - | 111,261.00 | 10 | $0 \quad 1.113$ | 148,129.00 | 7 | 1.037 | 148,129.00 | 29 | 4.296 | - | - | - | 148,129.00 | 29 | 4.296 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 10 | 10 1.113 |  | 7 | 1.037 |  | 28 | 4.148 |  | - | - |  | 28 | 4.148 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.148 |  | - | - |  | 1 | 0.148 |
| 1500 G WATER DISTR (3825-00-554-1808) | A |  | - | . | - | 129,671.00 | 28 | 83.631 | 190,920.00 | 23 | 4.391 | 190,920.00 | 4 | 0.764 | - | - | - | 190,920.00 | 4 | 0.764 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 28 | 88.3 .631 |  | 23 | 4.391 |  | 4 | 0.764 |  | - | - |  | 4 | 0.764 |
| $\begin{aligned} & \hline \text { TRAC IND IW-70 } \\ & (2420-00-113-8984) \\ & \hline \end{aligned}$ | A |  | - | - | - | 43,586.00 |  | 2 0.087 | 48,346.00 | ${ }^{6}$ | 0.290 | 48,269.00 | 17 | 0.821 | - | - | - | 48,269.00 | 17 | 0.821 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 2 0.087 |  | 4 | 0.193 |  | 14 | 0.676 |  | - | - |  | 14 | 0.676 |
| AFR |  |  |  | - | - |  | - | - |  | 2 | 0.097 |  | 3 | 0.145 |  | - | - |  | 3 | 0.145 |
| DOZER T7 (2410-00-756-1161) | A |  | - | - | - | 269,697.00 | 2 | $2 \quad 0.539$ | 281,399.00 | ${ }^{2}$ | 0.563 | 281,399.00 | 4 | 1.126 | - | - | - | 281,399.00 | 4 | 1.126 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 2 0.539 |  | 2 | 0.563 |  | 3 | 0.844 |  | - | - |  | 3 | 0.844 |
| AFNG |  |  |  | - | - |  | $\cdot$ | - |  | - | - |  | 1 | 0.281 |  | - | - |  | 1 | 0.281 |
| GRADER, SIZE <br> V, TYPE III <br> (3805-01-337-4624) | A |  | - | - | - | - | . | - | 311,615.00 | 6 | 1.870 | 311,615.00 | 4 | 1.246 | - | . | . | 311,615.00 | 4 | 1.246 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 6 | 1.870 |  | 4 | 1.246 |  | - | - |  | 4 | 1.246 |
| TRACTOR, WHLD IND. (2420-01-536-8542) | A |  | - | - | - | 143,866.00 | 1 | $1 \quad 0.144$ | 143,866.00 | 1 | 0.144 | 143,866.00 | 1 | 0.144 | - | - | - | 143,866.00 | 1 | 0.144 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | $1{ }^{1} 0.144$ |  | 1 | 0.144 |  | 1 | 0.144 |  | - | - |  | 1 | 0.144 |
| SEWER TRK TANDEM AXLE (2320-01-500-5501) | A |  | - | - | - | - | - | - | 289,769.00 | 1 | 0.290 | 299,769.00 | 1 | 0.300 | - | . | . | 299,769.00 | 1 | 0.300 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $3080 \mathrm{~F} / 02$ / 6 |
| :--- | :--- |

826990 / Items Less Than $\$ 5$ Million

Date: February 2016

## Aggregated Items Title:

Items Less Than $\$ 5$ Million

| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & C D \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 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 (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.290 |  | 1 | 0.300 |  | - | - |  | 1 | 0.300 |
| WATER WAGON (3825-01-539-6813) | A |  | - | - | - | - | - | - | - | - | - | 109,407.00 | 1 | 0.109 | - | - | - | 109,407.00 | 1 | 0.109 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.109 |  | - | - |  | 1 | 0.109 |
| TLR DITCHING MACH (2330-01-079-4053) | A |  | - | - | - | 17,565.00 | 10 | 0.176 | 29,456.00 | 13 | 0.383 | 30,000.00 | 6 | 0.180 | - | - | - | 30,000.00 | 6 | 0.180 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 10 | 0.176 |  | 13 | 0.383 |  | 5 | 0.150 |  | - | - |  | 5 | 0.150 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.030 |  | - | - |  | 1 | 0.030 |
| $\begin{aligned} & \text { CR HYD TRK } \\ & \text { 100-150T } \\ & (3810-01-259-9992) \\ & \hline \end{aligned}$ | A |  | - | - | - | - | - | - | 968,353.00 | 1 | 0.968 | 968,353.00 | 1 | 0.968 | - | - | - | 968,353.00 | 1 | 0.968 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.968 |  | 1 | 0.968 |  | - | - |  | 1 | 0.968 |
| $\begin{aligned} & \text { GRADER, SZ } 6 \\ & (3805-01-373-5314) \end{aligned}$ | A |  | - | - | - | 187,412.00 | 2 | 0.375 | 200,855.00 | 1 | 0.201 | 200,855.00 | 1 | 0.201 | - | - | - | 200,855.00 | 1 | 0.201 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.375 |  | 1 | 0.201 |  | 1 | 0.201 |  | - | - |  | 1 | 0.201 |
| $\begin{aligned} & \hline 7.5 \text { T CRANE } \\ & (3810-01-106-3991) \end{aligned}$ | A |  | - | - | - | - | - | - | 375,805.00 | 1 | 0.376 | 375,805.00 | 1 | 0.376 | - | - | - | 375,805.00 | 1 | 0.376 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.376 |  | 1 | 0.376 |  | - | - |  | 1 | 0.376 |
| GRADER SZ 7 (3805-01-375-1906) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TLR MANHOLE CLNR (2330-00-307-3295) | A |  | - | - | - | - | - | - | 54,821.00 | 3 | 0.164 | 54,821.00 | 2 | 0.110 | - | - | - | 54,821.00 | 2 | 0.110 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 3 | 0.164 |  | 2 | 0.110 |  | - | - |  | 2 | 0.110 |
| TRUCK, DUMP (2320-01-344-9282) | A |  | - | - | - | 131,481.00 | 38 | 4.996 | 143,753.00 | 33 | 4.744 | 143,753.00 | 16 | 2.300 | - | - | - | 143,753.00 | 16 | 2.300 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 38 | 4.996 |  | 33 | 4.744 |  | 16 | 2.300 |  | - | - |  | 16 | 2.300 |
| COMPACTOR TRACK LOADER (3805-01-603-8653) | A |  | - | - | - | 102,651.00 | 101 | 10.368 | 148,066.00 | 100 | 14.807 | 148,066.00 | 20 | 2.961 | - | - | - | 148,066.00 | 20 | 2.961 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 101 | 10.368 |  | 100 | 14.807 |  | 20 | 2.961 |  | - | - |  | 20 | 2.961 |
| DRIER-MXR, BIT CONCR | A |  | - | - | - | 188,621.00 | 47 | 8.865 | 253,553.00 | 40 | 10.142 | 253,553.00 | 8 | 2.028 | - | - | - | 253,553.00 | 8 | 2.028 |

## UNCLASSIFIED



## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
|  |  |  | 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 (\$) | Qty (Each) | 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 <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| CONTRACT MAINT TRK (2320-01-590-4213YW) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEMI TRAILER DUMP (2330-00-141-5567) | A |  | - | - | - | - | - | - - | 42,400.00 | 2 | 0.085 | 42,432.00 | 1 | 0.042 | - | - | - | 42,432.00 | 1 | 0.042 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | 2 | 0.085 |  | 1 | 0.042 |  | - | - |  | 1 | 0.042 |
| TRK CNTRNMAINT 4X2 SZ 5 (2320-01-030-7370) | A |  | - | - | - | - | - | - - | - | - | - | 106,167.00 | 2 | 0.212 | - | - | - | 106,167.00 | 2 | 0.212 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 1 | 0.106 |  | - | - |  | 1 | 0.106 |
| AFNG |  |  |  | - | - |  | - | - - |  | - | - |  | 1 | 0.106 |  | - | - |  | 1 | 0.106 |
| CLNR SEWER JET RODDER (2320-01-372-1823) | A |  | - | - | - | - | - | - - | - | - | - | 289,769.00 | 1 | 0.290 | - | - | - | 289,769.00 | 1 | 0.290 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 1 | 0.290 |  | - | - |  | 1 | 0.290 |
| STLR CG 6000PSI 47700SC (2330-01-112-3836) | A |  | - | - | - | - | - | - - | 389,000.00 | 3 | 1.167 | 389,097.00 | 3 | 1.167 | - | - | - | 389,097.00 | 3 | 1.167 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | 3 | 1.167 |  | 3 | 1.167 |  | - | - |  | 3 | 1.167 |
| CARR PERS ARMD (2350-00-968-6321) | A |  | - | - | - | - | - | - - | - | - | - | 77,714.00 | 1 | 0.078 | - | - | - | 77,714.00 | 1 | 0.078 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 1 | 0.078 |  | - | - |  | 1 | 0.078 |
| TRAC WHLD <br> W-DOZER <br> (2420-00-540-3881) | A |  | - | - | - | - | - | - - | 528,490.00 | 2 | 1.057 | 528,494.00 | 3 | 1.585 | - | - | - | 528,494.00 | 3 | 1.585 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | 2 | 1.057 |  | 3 | 1.585 |  | - | - |  | 3 | 1.585 |
| TRACTOR <br> WHLD IND <br> 90HP(2420-01-406-299 | $\begin{gathered} \text { A } \\ \text { 95) } \end{gathered}$ |  | - | - | - | - | - | - - | 43,260.00 | 11 | 0.476 | 43,265.00 | 4 | 0.173 | - | - | - | 43,265.00 | 4 | 0.173 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 11 | 0.476 |  | 4 | 0.173 |  | - | - |  | 4 | 0.173 |
| LOADER SKID STEER TRACK MTD (3805-00-278-1245) | A |  | - | - | - | - | . | - | - | - | - | 119,172.00 | 2 | 0.238 | - | - | - | 119,172.00 | 2 | 0.238 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 2 | 0.238 |  | - | - |  | 2 | 0.238 |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 (\$) | Qty (Each) | 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 (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| 50 TON CRANE (3810-00-272-9031) | A |  | - | - | - | - | - | - | 624,100.00 | 1 | 0.624 | 624,130.00 | 2 | 1.248 | - | - | - | 624,130.00 | 2 | 1.248 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.624 |  | 1 | 0.624 |  | - | - |  | 1 | 0.624 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.624 |  | - | - |  | 1 | 0.624 |
| CR WHLD HYD 15T (3810-00-329-4154) | A |  | - | - | - | - | - | - | 352,400.00 | 1 | 0.352 | 352,418.00 | 6 | 2.115 | - | - | - | 352,418.00 | 6 | 2.115 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.352 |  | 6 | 2.115 |  | - | - |  | 6 | 2.115 |
| CR MSL ENG CHG 8 1-2T (3810-00-827-9352) | A |  | - | - | - | - | - | - | - | - | - | 511,970.00 | 1 | 0.512 | - | - | - | 511,970.00 | 1 | 0.512 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.512 |  | - | - |  | 1 | 0.512 |
| CR HYD TRK MTD 60-65T (3810-01-038-8315) | A |  | - | - | - | - | - | - | 695,200.00 | 1 | 0.695 | 695,279.00 | 1 | 0.695 | - | - | - | 695,279.00 | 1 | 0.695 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | , | 0.695 |  | 1 | 0.695 |  | - | - |  | 1 | 0.695 |
| CRANE <br> HYDRAULIC 15 T (3810-01-485-8693) | A |  | - | - | - | - | - | - | 196,300.00 | 1 | 0.196 | 196,330.00 | 1 | 0.196 | - | - | - | 196,330.00 | 1 | 0.196 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.196 |  | 1 | 0.196 |  | - | - |  | 1 | 0.196 |
| CRANE TRK MTD 28 TON (3810-001-506-6637) | A |  | - | - | - | - | - | - | - | - | - | 265,635.00 | 1 | 0.266 | - | - | - | 265,635.00 | 1 | 0.266 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.266 |  | - | - |  | 1 | 0.266 |
| DISTR WTR STLR (3825-00-570-3417) | A |  | - | - | - | - | - | - | 121,000.00 | 3 | 0.363 | 121,031.00 | 1 | 0.121 | - | - | - | 121,031.00 | 1 | 0.121 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.121 |  | 1 | 0.121 |  | - | - |  | 1 | 0.121 |
| AFNG |  |  |  | - | - |  | - | - |  | 2 | 0.242 |  | - | - |  | - | - |  | - | - |
| PAVEMENT PROFILER (3895-01-108-3606) | A |  | - | . | - | - | . | . | - | - | - | 357,960.00 | 5 | 1.790 | - | - | - | 357,960.00 | 5 | 1.790 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 5 | 1.790 |  | - | - |  | 5 | 1.790 |
| ROLLER MOTORIZED (3895-01-603-8654) | A |  | - | - | - | - | . | - | 40,000.00 | 7 | 0.280 | 40,200.00 | 2 | 0.080 | - | - | - | 40,200.00 | 2 | 0.080 |

## UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $3080 \mathrm{~F} / 02$ / 6 |
| :--- | :--- |
| 826990 / Items Less Than \$5 Million |  |

826990 / Items Less Than $\$ 5$ Million
FY 2016

| FY 2015 |  |  | FY 2016 |  |
| :---: | :---: | :---: | :---: | :---: |
| Unit Cost <br> $(\$)$ | Qty <br> (Each) | Total <br> Cost <br> $(\$ M)$ | Unit Cost <br> (\$) | Qty <br> (Each) |

Date: February 2016

## Aggregated Items Title:

Items Less Than \$5 Million
FY 2017 OCO $\quad$ FY 2017 Total Total
Cost
$(\$ M)$

| FY 2017 OCO |  |  | FY 2017 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Unit Cost <br> $(\$)$ | Qty <br> $($ Each $)$ | Total <br> Cost <br> $(\$ M)$ | Unit Cost <br> $(\$)$ | Qty <br> (Each) | Total <br> Cost <br> $(\$ M)$ |


|  | 2 | 0.080 |
| ---: | ---: | ---: |
| $103,653.00$ | - | - |


|  |  | - |
| ---: | ---: | ---: |
|  |  | 1 |
|  |  | - |
| $173,914.00$ | 2 | - |

${ }_{\text {Secondary Distribution }}$


Secondary Distribution

| AF |  |  | - | - |  | - | - |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AFNG |  |  | - | - |  | - | - |  |
| CRUSHING PLANT <br> (3820-01-218-0595) | A | - | - | - | - | - | - | 500,900.00 |


| - |  |
| ---: | ---: |
| - |  |
| 1 |  |


| - |  |  |
| ---: | ---: | :--- |
| - |  |  |
| 0.501 | - |  |


| - | - |  | - | - |  | - | - |
| :---: | :---: | ---: | ---: | ---: | ---: | ---: | :---: |
| 1 | 0.290 |  | - | - |  | 1 | 0.290 |
| - | - | - | - | - | - | - | - |


| AF |  |  | - | - |  | - | - |  | 1 | 0.501 |  | - | - |  | - |  |  | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PAVING <br> (3895-00-190-3313) | A | - | - | - | - | - | - | 611,300.00 | 1 | 0.611 | - | - | - | - | - | - | - | - |



## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than \$5 Million |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | Unit Cost (\$) | $\underset{\text { Qty }}{\text { Qach })}$ | Total Cost (\$ M) | 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 (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| EXCAVATOR TRK MTD (3805-00-618-7337) | A |  | - | - | - | - |  | - | 266,000.00 | 1 | 0.266 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.266 |  | - | - |  | - | - |  | - | - |
| DIGGER <br> STRAINER TWD (3805-00-202-7377) | A |  | - | - | - | - | - | - | 63,200.00 | 1 | 0.063 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFNG |  |  |  | - | - |  | - | - - |  | 1 | 0.063 |  | - | - |  | - | - |  | - | - |
| WELL DRLG MACH (3820-00-286-9196) | A |  | - | - | - | - | - | - | 1,155K | 1 | 1.155 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 1.155 |  | - | - |  | - | - |  | - | - |
| DRIER MXR BIT-CNRT (3895-00-554-5162) | A |  | - | - | - | - | - | - | 30,400.00 | 9 | 0.274 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | 9 | 0.274 |  | - | - |  | - | - |  | - | - |
| COMPACT SHEEPS FOOT (3805-01-359-7626) | A |  | - | - | - | - | - | - | 437,100.00 | 2 | 0.874 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 2 | 0.874 |  | - | - |  | - | - |  | - | - |
| SEWER TRK SINGLE AXLE (2320-01-501-8524) | A |  | - | - | - | - | - | - | 264,000.00 | 1 | 0.264 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | 1 | 0.264 |  | - | - |  | - | - |  | - | - |
| 50T CRANE (3810-01-079-8358) | A |  | - | - | - | - | - | - | 385,000.00 | 2 | 0.770 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 2 | 0.770 |  | - | - |  | - | - |  | - | $\checkmark$ |
| WHLD HYD 15T (3810-00-554-4103) | A |  | - | - | - | - | - | - | 624,100.00 | 1 | 0.624 | 657,000.00 | 1 | 0.657 | - | - | - | 657,000.00 | 1 | 0.657 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.624 |  | 1 | 0.657 |  | - | - |  | 1 | 0.657 |
| PAVER CONCRETE SLIP (3895-01-535-4275) | A |  | - | - | - | - | - | - | 399,800.00 | 1 | 0.400 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | 1 | 0.400 |  | - | - |  | - | - |  | - | - |


|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Items Less Than \$5 Million |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 826990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\underset{\text { (Each) }}{\text { (Eat }}$ | Total Cost <br> (\$ M) | 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 (\$) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| RUBER <br> REMOVAL TRK <br> (3805-01-592-7853) | A |  | - | . | . | - |  | - . | 553,800.00 | 1 | 0.554 | - | . | . | - | . | - | - | . | . |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - - |  | 1 | 0.554 |  | - | - |  | - | - |  | - |  |
| CARRIER CARGO (2350-01-132-9099) | A |  | - |  | - | - |  | - - | 245,900.00 | 2 | 0.492 | - | - | - | - |  | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  |  | - |  |  | - - |  | 2 | 0.492 |  | - | - |  | - | - |  | - |  |
| $\begin{aligned} & \hline \text { TAC WHLD MULTI } \\ & (2420-01-366-6796) \\ & \hline \end{aligned}$ | A |  | - | - | - | - |  | - - | 28,000.00 | 3 | 0.084 | 45,000.00 | 1 | 0.045 | - | - | - | 45,000.00 | 1 | 0.045 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - - |  | 3 | 0.084 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  |  | - - |  | - | - |  | 1 | 0.045 |  | - | - |  | 1 | 0.045 |
| TRK WB ACFT LDR 15K (3930-01-132-6891CT) | ${ }^{\text {A }}$ |  | - | - | - | - |  | - - | 138,500.00 | 1 | 0.139 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - - |  | 1 | 0.139 |  | - | - |  | - | - |  | - | - |
| PMA OTHER GOVERNMENT costs | A |  | - | - | - |  |  | 0.004 | - | - | 0.004 | - |  | 0.020 | - | - | - | - | . | 0.020 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 0.004 |  | - | 0.004 |  | - | 0.020 |  | - | - |  | - | 0.020 |
| Subtotal: Uncategorized |  |  | $\cdot$ | - | - | $\cdot$ |  | 57.069 | - | $\cdot$ | 87.781 | - | - | 46.868 | - | - | 9.271 | - | - | 56.139 |
| Total |  |  | - | - | - | - |  | - 57.069 | - | - | 87.781 | - | - | 46.868 | - | $\cdot$ | 9.271 | - | - | 56.139 |
| 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 FY17 ARE SUBJECT TO CHANGE. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PROGRAM MANAGE <br> Footnotes: <br> ${ }^{(1)}$ AIRFIELD DAMAG <br> ${ }^{(2)}$ AIRFIELD DAMAG <br> ${ }^{(3)}$ AIRFIELD DAMAG |  | T ADM <br> PAIR PAIR PAIR | MINISTRATIO <br> (ADR) FY17 <br> (ADR) FY15 <br> (ADR) FY15 | N(PMA): <br> REQUIR OCO RE CO RE | MA supp <br> ENTS <br> IREMEN <br> IREMEN | rts the opera <br> ; ADR OCO: <br> ; 30 ADR | : \$17M <br> CO | he program offic <br> PLACEHOLD | ice in its man <br> DER; FUNDS | agement a <br> WERE N | d oversigh <br> SENT D | ht role via trav <br> OWN FOR P | el, procur <br> ROCURE | ment of sup <br> ENT | pplies and A | dvisory an | administrativ | ative Services | (A\&AS). |  |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 91.987 | 139.244 | 72.359 | - | 72.359 | $93.613^{(a)}$ | $86.474{ }^{\text {(b) }}$ | $70.740{ }^{(c)}$ | $72.138{ }^{\text {(d) }}$ | - | $626.555^{(\mathrm{e})}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 91.987 | 139.244 | 72.359 | - | 72.359 | 93.613 | 86.474 | 70.740 | 72.138 | - | 626.555 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 91.987 | 139.244 | 72.359 | - | 72.359 | 93.613 | 86.474 | 70.740 | 72.138 | - | 626.555 |
| (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:

PE 0207448F C2ISR TACTICAL DATA LINK
Assistant Secretary of Defense/Command, Control, Communications and Intelligence (ASD/C3I) directed implementation of the DoD Cryptographic Modernization Initiative (CMI) on 23 February 2001. Chairman, Joint Chiefs of Staff (CJCS) Notice 6510/NSA 3-9 direct the modernization of all cryptography in military systems in the US, NATO and Coalition nations. To prevent information compromise, the National Security Agency (NSA) mandate requires Link 16 cryptographic systems be upgraded. The CJCS directed a modernization effort at the recommendation of the NSA to modernize equipment and provide enhanced security for Link 16 tactical networks (Cryptographic Modernization Initiative (CM). Likewise, a radio frequency spectrum memorandum of agreement between the DoD and the Department of Transportation mandate the internal frequency remapping of our Link 16 family of terminals to avoid conflict with next generation Federal Aviation Administration radio aids to navigation. These two mandates, among other operational reliability and capability improvements will be satisfied under a Block Upgrade (BU2) effort planned for the Link 16 Multifunctional Information Distribution System (MIDS) Low Volume Terminal (LVT). BU2 will procure new Signal Message Processor (SMP) cards that incorporate the most current NSA mandated cryptographic standards. BU2 will also procure a new Tailored Processor/Ground Multiplexer card, update software and firmware in the MIDS LVT to improve operational reliability and provide the radio the ability to remap the lower frequency range of the terminal. The new cards will be installed in all terminals and spare cards will also be purchased. Crypto mod kit being developed by the Navy as part of MIDS LVT Block Upgrade 2.

PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS
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.

PE 0303135F PUBLIC KEY INFRASTRUCTURE (PKI)
This program funds procurement of PUBLIC KEY INFRASTRUCTURE (PKI). PKI provides identity management (IDM) services to support warfighter requirements. PKI provides the basic framework and services implemented within DoD to ensure information systems security. It provides the capability to attach digital signatures to electronic documents for identity management, and to encrypt and decrypt electronic documents for secure transmission. PKI-enabled applications afford confidentiality and authentication services to communications and/or network transactions, as well as verification of the data integrity and non-

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
P-1 Line Item Number / Title:
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 $\quad$ Item MDAP/MAIS Code(s): N/A

repudiation of those transactions. PKI is one of many security solutions used to protect information and provide attributes to enable access to critical resources in the Global Information Grid (GIG) and is used concurrently with other solutions. Funding supports several different requirement areas to procure infrastructure equipment for the field in support of Secret Internet Protocol Routed Network (SIPRNET), PKI, and Evolutionary PKI End User Equipment.

## PE 0303140F INFORMATION SYSTEMS SECURITY PROGRAM:

This program funds procurement of Communications Security (COMSEC) equipment, ancillary encryption/decryption devices, and related equipment to enable the secure transport of
information. United States Air Force (AF) and the Department of Defense (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. 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 significant and/or devastating mission degradation that can result in loss of life and resources and/or cede information that could be used against the United States in a public forum. The COMSEC program includes equipment upgrades and replacements which incorporate latest and/or best technologies mandated to provide mission critical warfighter secure voice and data communications in space, tactical, strategic, and network applications for our globally-deployed COMSEC crypto assets supporting both AF and DoD missions. Details of the assets are included in each section's narrative.

## PE 0305251F CYBERSPACE OPS AND FORCE SUPPORT

Provides training systems to support defensive counter cyberspace capability training requirements for units that protect the AFNet and DoD network enclaves, to include their associated computer systems, software applications and sensitive operational information. Also supports other procurement requirements related to all Cyber Mission Force (CMF) teams to include the Cyber Protection Teams (CPT), Combat Mission Teams (CMT), Combat Support Teams (CST), National Mission Teams (NMT) and National Protection Teams (NPTs).

Funding for this exhibit contained in PE 0207448F; PE 0208088F; PE 0303135F; PE 0303140F; PE 0305251F.

| 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 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \hline \end{array}$ | 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 | C2ISR Tactical Data Link |  |  | - 10.000 | - 1 - | - 12.246 | - 1 - | - 1 | 1 |
| P-5 | AF DEFENSIVE CYBERSPACE OPERATIONS |  | A | - 1 - | - 12.882 | - 123.377 | - 122.678 | 1 | - 122.678 |
| P-5 | Public Key Infrastructure (PKI) |  | A | 1 | 75,381/4.862 | 35,060 / 2.442 | 67,240/4.005 | - 1 | 67,240/4.005 |
| P-5 | Information Systems Security Program |  | A | 1 | - 184.243 | - /107.551 | - / 45.676 | - 1 - | - / 45.676 |
| P-5 | Cyberspace Operations Forces and Force Support |  | A | - 10.000 | - 1 | - 13.628 | - 1 | - 1 - | 1 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 10.000 | - 191.987 | - /139.244 | - 172.359 | 1 | - 172.359 |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | C2ISR Tactical Data Link |  |  | - 1 | - 1 - | - 1 | - 1 | - 1 | - 12.246 |
| P-5 | AF DEFENSIVE CYBERSPACE OPERATIONS |  | A | -1 | - 1 - | - 1 | - 1 | - 1 | - 1 |
| P-5 | Public Key Infrastructure (PKI) |  | A | - 1 | - 1 | - 1 | 1 | - 1 | 1 |
| P-5 | Information Systems Security Program |  | A | - 1 | - 1 - | - 1 | 1 | - 1 - | 1 |
| P-5 | Cyberspace Operations Forces and Force Support |  | A | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1- |
| P-40 | Total Gross/Weapon System Cost |  |  | - 193.613 | - 186.474 | - 170.740 | - 172.138 | - 1 - | - 1626.555 |

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

## Justification:

PE 0207448F C2ISR TACTICAL DATA LINK

 CJCSI 6510.02E and the NSA, as of 1 APR 14. Funding will be executed in BPAC 834010.

PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS






 new technologies and architectures being integrated into AF networks.

| 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

| 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 $\quad$ Item MDAP/MAIS Code(s): N/A

2. AFCERT: FY17 funding provides equipment and modification to the AF Cyber Defense (ACD) weapon systems to increase weapon system utility.
3. CYBERSPACE VULNERABILITY ASSESSMENT /HUNTER: FY17 funding provides a full level and an initial level of CVA/Hunter equipment to 12 active duty Cyber Protection Teams and 6 Air National Guard (ANG) CPT units.
4. CYBER DEFENSE ANALYSIS: FY17 funding provides equipment for three RF Monitor Systems (Digital Receiver Technology) with extended warranty.

PE 0303135F PUBLIC KEY INFRASTRUCTURE (PKI):

1. EVOLUTIONARY PKI END USER EQUIPMENT: Funding supports PKI Identity and Access Management needs that must be procured rapidly to strengthen and defend the Air Force Information Network (AFIN) from new and evolving vulnerabilities. Funding and quantities directly support PKI-based software authentication and hardware security afforded by smartcards or other hardware methods, enabling users to authenticate securely to the network.
2. AIR FORCE DIRECTORY SERVICES (AFDS): AFDS is one of three pillars of DoD Identity Management. The others are PKI and CAC. 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 through the use of 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 (both in-garrison and tactical), by providing AF user credentials to the AF Network Enterprise and AF system applications. AFDS addresses challenges and enhances AF mission performance through seamless integrated access to the right information anywhere, anytime. 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. FY17 funds will procure hardware, software, and support upgrades.

## PE 0303140F INFORMATION SYSTEMS SECURITY PROGRAM:

1. Space COMSEC Mission: Space COMSEC procures crypto products for ground nodes that link to space assets. Space COMSEC equipment is a foundational element in achieving Air Force space and information superiority. Space COMSEC is an enabler for space system compliance with DoD I 8581.01 - Information Assurance (IA) Policy for Space Systems used by the Department of Defense. Space COMSEC mission provides communications security products and lifecycle sustainment support to all DoD satellite systems and commercial systems supporting DoD missions. It enables secure Command and Control (C2) of satellites and prevents unauthorized access and destruction. It enables secure transmission of satellite system's health status telemetry data (satellite health and relative orbital position) to ground control stations, thus protecting critical information about the capabilities of DoD satellite systems. The capability of a system must be protected from an adversary to avoid exploitation of a system weakness/ limitation, knowledge of which could assist an adversary in a successful mission against DoD military forces and potential loss of life. Space COMSEC also provides secure transmission of information collected by satellite sensors, which provides the warfighter an integrated view of the battle space. Space COMSEC provides for secure SATCOM, positioning, navigation, timing, weather, nuclear detection and early warning missions. Space COMSEC also enables transmission security (TRANSEC) for space platforms. Space COMSEC mission procures crypto end items and logistics elements to support developing and operational space systems. Funding for this effort is in PE 0303140F.
a. PRODUCTS: FY17 funding moved to APPN 3021 Space Procurement. FY16 funding provides for the production of Space COMSEC products to meet developing and operational space program needs. Space COMSEC products include End Crypto Units (ECU), Embedment Solutions (ES), TRANSEC, and ancillaries. Due to low volume production quantities and high reliability design, Space COMSEC products can range in price from $\$ 10 \mathrm{~K}$ per unit to $\$ 2 \mathrm{M}$ per unit. As a commodity item, Space COMSEC procures standard crypto products, which enable minimized lifecycle footprints. Space COMSEC procures from multiple crypto vendors, however, with the low volume consumption by space programs the space crypto industry base is less than a dozen companies.
b. LOGISTICS: FY17 funding moved to APPN 3021 Space Procurement. FY16 funding provides for the production of Space COMSEC logistics elements. Space COMSEC products typically have a 20 to 40 year life cycles to support development, launch, and operation of multiple AF and DoD space systems. Space COMSEC is provided as Government Furnished Equipment (GFE) to the space system developing contractors and operational ground stations. Space COMSEC products are high-cost critical assets. They are organically sustained to include component level maintenance exclusively by the AF. Logistics

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

| 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


| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |
| :--- | :--- |

procures the necessary lifecycle sustainment elements required to meet the 40 year mission requirements. Logistics elements include specialized test sets, certified training materials and courses, maintenance manuals, provisioning, and modifications.
2. 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 National Security Agency's 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 FY17 to comply with NSA's Advance Cryptographic Capabilities (ACC) directives. The program supports space, tactical, strategic, and network applications for globally deployed cryptologic assets supporting Air Force and DoD. Supported systems fall within Air Force Information Systems Security and Information Assurance arenas. Funding for this effort is in PE 0303140F.
a. IN-LINE NETWORK ENCRYPTORS: Previously called "Network Encryption Systems." FY17 funding fields the new In-Line Network Encryptors (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 Version 6 capability that will improve security and expand the bandwidth of USAF secure Internet Protocol networks.
b. LINK ENCRYPTION FAMILY (LEF): FY17 funds provide for the replacement of the legacy LEF with new more secure crypto modernization compliant LEF devices . The LEF provide 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.
c. AIR AND GROUND COMSEC CONSOLIDATED: The following 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. FY17 funds procure secure voice/data equipment, DOD Type I 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 aggregate of numerous items. Each year the type and/or quantity of items utilized to meet requirements varies; an average unit cost is based on number/type of units planned for purchase.
3. CRYPTOGRAPHIC MODERNIZATION: 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, and ensured Global Information Grid-compatibility. The Global Information Grid (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, National Security Agency mandates, and mission environments. The future inventory will provide security devices that ease logistics, support joint interoperability, improve interoperability with allies and coalition partners, 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 without increasing communication transient and information holding risk. Current CM programs will ensure modernized, secure communications capability to VINSON/ANDVT radios, the Identification Friend Foe (IFF) Mode 5 system, a Remote ReKey system for multiple Homeland Defense and other radar sites, the few remaining, unmodernized-Nuclear Command and Control (NC2) networks, miniaturized crypto for small unmanned systems, and all future satellite control systems and mission data downlinks. Current programs will replace/upgrade over 30,000 devices out of the Air Force's $245,000+$ crypto devices and proved over 100,000 new devices where none were previously available. Other potential programs are undergoing development under the auspices of this line of this PE in order to meet emerging COMSEC requirements for Key Management Infrastructure compatibility, as well as various enterprise-wide technological upgrades mandated under the National Security Agency assessments and Policy \#3-9. FY17 Funding for this effort is in PE 0303140F.
a. IDENTIFICATION FRIEND OR FOE (IFF) MODE 5 CRYPTO MODERNIZATION: This program developed and is procuring devices to encrypt/decrypt IFF Mode 4 and Mode 5 interrogator and transponder operations. These devices, built to Air Traffic Control Radar Beacon System (ATCRBS), IFF, Mark XIIA, System (AIMS) 04-900 Cryptographic Interface Standard, are integrated into all airborne platforms and ground radar applications to provide critical, immediate tactical aircraft identification data to ground and airborne systems. Procurement of the two primary devices, KIV-77 and KIV-78 will conclude in FY15 for the KIV-78 and FY18 for KIV-77 (required to outfit most of the USAF fleet) and a remote form factor for certain C2 AF aircraft:

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)

| ode (A=Service Ready, B=Not Service Ready): A | m Elements for Code B Items: 0207448F |  |
| :---: | :---: | :---: |

## Line Item MDAP/MAIS Code: N/A $\quad$ Item MDAP/MAIS Code(s): N/A

(1) KIV-77 DEVICES: The FY17 funding procures KIV-77s. KIV-77 is a cryptographic device developed by the USAF to integrate into the APX-119 IFF host box used in the majority of USAF aircraft and ground surveillance /control systems.
(2) KIV-78 DEVICES: The FY16 funding procures the technical support and travel CLINS for the KIV-78s. KIV-78 is a cryptographic device developed by the USAF in conjunction with Navy IFF Mode 5 upgrades for USAF F-16s and U.S. Navy /U.S. Marine Corps F /A-18s.
b. REMOTE REKEY (RRK) (CI-33) DEVICES: The RRK modernization program, a part of the AF Key Management Enterprise (KME), will include the current CI-13 capabilities, expand ability to store keying material and rekey other cryptographic devices, and add capability to key/rekey the new Identification Friend or Foe Mode 5 system. RRK uses existing Defense Information Systems Network (DISN) infrastructure communications to distribute key material produced via the Electronic Key Management System (EKMS) or the Key Management Infrastructure (KMI) capabilities, to manage the distribution network, and to configure/status remote End Cryptographic Units (ECUs). FY17 funding procures integration of devices with KMI.
c. VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM): The VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) program is an element of the USAF CM Program designed to replace the legacy capability on VINSON/ANDVT secure voice communications on aircraft, ships, and ground fixed and mobile platforms including critical Nuclear Command and Control (NC2) and other Top Secret and Secret networks (Devices: KY-57/58,KY-99/100 and USC-43). The VACM Embedded Project upgrades the BBIO module as a permanent modification of the ARC-234.
(1) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) COMPONENTS (ARC-234): The VACM Embedded Project was established to modernize cryptographic devices that are integrated within various Vinson/ANDVT radios. The Baseband Input/Output (BBIO) module performs COMSEC functions for the ARC-234. The Permanent Sustainment Modification of the ARC-234 will retain Embedded Communications Security (COMSEC) capability by upgrading the BBIO module with reprogrammable hardware and modern crypto algorithms.
(1a) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) COMPONENTS (ARC-234), Installation: The upgraded BBIOs will be installed/modified into the ARC-234 radios beginning in FY16.
(2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) INTERIM CONTRACTOR SUPPORT (ICS): Logistics is required for the initial period of operation for the VACM device. For the purposes of this contract, ICS includes material management, supply distribution, repair functions for the VACM device, technical manuals revisions and software management and maintenance.
(3) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES: The VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) program is procuring devices. The production line will replace five crypto device types on critical national leadership networks including airborne, ground and mobile platforms.
d. Missile Electronic Encryption Device (MEED): The MEED Modification will procure the modified legacy Missile Entry Control System (MECS) devices used to securely authenticate personnel attempting access to this Nation's ground-based Intercontinental Ballistic Missile (ICBM) facilities. This effort will bring the MEED equipment into compliance with current NSA information assurance (IA) security design guidance.
e. Technology Development (TD): Technical Development (TD) conducts concept development and early systems engineering activities to analyze evolving threats and Communications Security (COMSEC) capability gaps across AF mission areas. Develops, plans and executes foundational technology maturation efforts to inform COMSEC requirements, build capability roadmaps and support cost estimates prior to Materiel Development Decision (MDD). Mitigates risk for thousands of AF users affected by algorithm security issues and ensures required security upgrades can be integrated into the AF enterprise. Works with NSA and other services to develop standards that increase security of communication and information products and facilitate efficient crypto and COMSEC enterprise management.

FY17 Plans:
(1) Distributed Common Ground System (DCGS) Crypto: No action planned
(2) Classified Data at Rest (CDAR) Crypto: Continued procurement of legacy encryption solutions for application to unprotected legacy Air Force platforms.

## 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 Item MDAP/MAIS Code(s): N/A

 weapon system.
(4) Integrated Data Denial (IDD) Crypto: No action planned
(5) Advanced Crypto Capabilities (ACC): Planned modification activity in support of KG-245A.
 activities.


 effort is in program element 0303140F.
 an audit trail for COMSEC materials.
 Equipment Replacement began in FY10 and will continue until the Air Force Last Mile Load Element is fielded.

 communications in the battlefield. Capital Equipment Replacement continues incrementally across the FYDP until the Air Force Last Mile Load Element is fielded.



 that have been under previous years DOD development. Funding for this effort is in program element 0303140F.


 (SKLs) and Really Simple Key Loaders(RASKL) in the key management enterprise.
 capabilities.

PE 0305251F CYBERSPACE OPS FORCES AND FORCE SUPPORT CYBERSPACE VULNERABILITY ASSESSMENT (CVA) TRAINING SUITE: No funding in FY17.

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
P-1 Line Item Number / Title:
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

 Item MDAP/MAIS Code(s): N/A follows:
${ }^{(a)}$ FY 2018 Cost Delta: 93.613 million
(b) FY 2019 Cost Delta: 86.474 million
(c) FY 2020 Cost Delta: 70.740 million
${ }^{(d)}$ FY 2021 Cost Delta: 72.138 million
${ }^{(e)}$ FY Total Cost Delta: 624.309 million

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 831010 / Comsec Equipment |  |  |  |  |  |  |  | Aggregated Modification Items Title: C2ISR Tactical Data Link |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | Unit Cost (\$) | $\underset{(\text { (Each) }}{\text { Qty }}$ | 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 (\$) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) |
| C2ISR1 / C2ISR Tactical Data Link |  |  | - | - | - | - | - | - | - | - | 2.246 | - | . | - | - | - | - | - |  | - |
| Total |  |  | - | - | 0.000 | - | - | - | - | - | 2.246 | - | - | - | - |  | - | - |  | - |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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 (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| C2ISR1 / C2ISR Tactical Data Link |  |  | - | - | - | - | - | - | - | - | - | . | - | - | - | - | - | - |  | 2.246 |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.246 |

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 |
| :--- | :--- | :--- |
| C2ISR1 / C2ISR Tactical Data Link | $\mathrm{E}-3, \mathrm{E}-8 \mathrm{C}, \mathrm{RC}-135$, AOC | Capability Improvement |

UNCLASSIFIED


## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Air Force
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: February 2016

## Item Number / Title [DODIC]

- / Public Key Infrastructure (PKI)

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Procurement Quantity (Units in Each) | - | 75,381 | 35,060 | 67,240 | - | 67,240 |
| Gross/Weapon System Cost (\$ in Millions) | - | 4.862 | 2.442 | 4.005 | - | 4.005 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 4.862 | 2.442 | 4.005 | - | 4.005 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 4.862 | 2.442 | 4.005 | - | 4.005 |
| (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 Dollars) | - | 64.50 | 69.65 | 59.56 | - | 59.56 |


| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Cost Elements | 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 (\$) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |



## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Air Force
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1

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

Date: February 2016

## Item Number / Title [DODIC]:

- / Information Systems Security Program

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

| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 84.243 | 107.551 | 45.676 | - | 45.676 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 84.243 | 107.551 | 45.676 | - | 45.676 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 84.243 | 107.551 | 45.676 | - | 45.676 |
| (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 Dollars) | - | - | - | - | - | - |

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

|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | 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 <br> (\$ M) | 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 <br> (\$ M) |

Hardware - 1. SPACE COMSEC (PE 0303140F Cost

## Recurring Cost

| a. PRODUCTS | - | - | - | 14,311.63 | 860 | 12.308 | 17,163.00 | 1,192 | 20.458 | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| b. LOGISTICS | - | - | - | 651,076.92 | 13 | 8.464 | 2,885K | 7 | 20.194 | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | - | - | - | 20.772 | - | - | 40.652 | - | - | - | - | - | - | - |
| Subtotal: Hardware - 1 . SPACE COMSEC (PE 0303140F Cost | - | - | - | - | - | 20.772 | - | - | 40.652 | - | - | - | - | - | - | - |

Hardware - 2. AIR and GROUND COMSEC (PE 0303140F) Cost

| Recurring Cost |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| a. IN-LINE NETWORK ENCRYPTORS | - | - | - | 16,091.61 | 1,156 | 18.602 | 16,108.45 | 627 |
| b. LINK ENCRYPTION FAMILY | - | - | - | 8,982.93 | 103 | 0.925 | 9,386.82 | 698 |
| c. AIR AND GROUND CONSOLIDATED | - | - | - | 2,795.34 | 2,175 | 6.080 | 2,578.98 | 1,570 |
| Subtotal: Recurring Cost | - | - | - | - | - | 25.607 | - | - |
| Subtotal: Hardware - 2. AIR and GROUND COMSEC (PE 0303140F) Cost | - | - | - | - | - | 25.607 | - | - |

Hardware - 3. CRYPTOGRAPHIC MODERNIZATION (PE 0303140F) Cost
Recurring Cost


UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

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

Date: February 2016
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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Cost Elements | 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 (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ 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 <br> (\$ M) |
| b. (1) REMOTE <br> REKEY (RRK) (Cl-33) DEVICES | - | - | - | 176,222.22 | 18 | 3.172 | - | - | 1.864 | - | - | 0.142 | - | - | - | - | - | 0.142 |
| b. (2) REMOTE REKEY (RRK) (CI-33) INTERIM CONTRACTOR SUPPORT (ICS LABOR) | - | - | - | - | - | 0.506 | - | - | - | - | - | - | - | - | - | - | - | - |
| c. (1) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) COMPONENTS (ARC-234) | - | - | - | 53,703.39 | 118 | 6.337 | 39,608.85 | 167 | 6.615 | 50,457.64 | 43 | 2.170 | - | - | - | 50,457.64 | 43 | 2.170 |
| c. (1a) VINSON/ ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) COMPONENTS (ARC-234) INSTALLATION | - | - | - | - | - | - | 18,392.86 | 179 | 3.292 | 18,672.62 | 222 | 4.145 | - | - | - | 18,672.62 | 222 | 4.145 |
| c. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) INTERIM CONTRACTOR SUPPORT (ICS) | - | - | - | - | - | - | - | - | 0.864 | - | - | - | - | - | - | - | - | - |
| c. (3) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES | - | - | - | 9,802.44 | 820 | 8.038 | 9,793.25 | 919 | 9.000 | 9,809.66 | 1,035 | 10.153 | - | - | - | 9,809.66 | 1,035 | 10.153 |
| d. MISSILE ELECTRONIC ENCRYPTION DEVICES (MEED) | - | - | - | - | - | - | - | - | - | 10,750.00 | 320 | 3.440 | - | - | - | 10,750.00 | 320 | 3.440 |
| e. PROGRAM MANAGEMENT (PMA) | - | - | - | - | - | 2.055 | - | - | 2.869 | - | - | 2.564 | - | - | - | - | - | 2.564 |
| f. DISTRIBUTED GROUND COMM SYSTEM (DCGS) | - | - | - | 57,324.84 | 157 | 9.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| g. CLASSIFIED DATA AT REST (CDAR) | - | - | - | - | - | - | 4,285.71 | 350 | 1.500 | - | - | - | - | - | - | - | - | - |


| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 \text { / } 1$ |  |  |  |  |  | P-1 Line Item Number / Title: 831010 / Comsec Equipment |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> - / Information Systems Security Program |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Cost Elements | 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 (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ 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 (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| h. TRUSTED SENSORS | - | - | - | - | - | - | 20,270.27 | 74 | 1.500 | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | - | - | - | 31.558 | - | - | 36.326 | - | - | 23.469 | - | - | - | - | - | 23.469 |
| Subtotal: Hardware 3. CRYPTOGRAPHIC MODERNIZATION (PE 0303140F) Cost | - | - | - | - | - | 31.558 | - | - | 36.326 | - | - | 23.469 | - | - | - | - | - | 23.469 |
| Hardware - 4. AF EKMS (PE 0303140F) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a. TECHNICAL UPDATES | - | - | - | - | - | 0.914 | - | - | 0.680 | - | - | 1.047 | - | - | - | - | - | 1.047 |
| b. SIMPLE KEY LOADER (SKL) and REFRESH | - | - | - | 2,502.02 | 494 | 1.236 | 2,500.00 | 1,708 | 4.270 | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | - | - | - | 2.150 | - | - | 4.950 | - | - | 1.047 | - | - | - | - | - | 1.047 |
| Subtotal: Hardware - 4. AF EKMS (PE 0303140F) Cost | - | - | - | - | - | 2.150 | - | - | 4.950 | - | - | 1.047 | - | - | - | - | - | 1.047 |
| Hardware - 5. AF KMI (PE 0303140F) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a. KMI HARDWARE | - | - | - | 18,977.17 | 219 | 4.156 | 21,875.56 | 225 | 4.922 | 41,108.43 | 83 | 3.412 | - | - | - | 41,108.43 | 83 | 3.412 |
| b. KMI Last Mile Production | - | - | - | - | - | - | - | - | - | 3,540.19 | 3,023 | 10.702 | - | - | - | 3,540.19 | 3,023 | 10.702 |
| Subtotal: Recurring Cost | - | - | - | - | - | 4.156 | - | - | 4.922 | - | - | 14.114 | - | - | - | - | - | 14.114 |
| Subtotal: Hardware - 5. AF KMI (PE 0303140F) Cost | - | - | - | - | - | 4.156 | - | - | 4.922 | - | - | 14.114 | - | - | - | - | - | 14.114 |
| Gross/Weapon System Cost | - | - | - | - | - | 84.243 | - | - | 107.551 | - | - | 45.676 | - | - | - | - | - | 45.676 |

## Remarks:

 \$19K for the KIV-78


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| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications <br> Equip / BSA 1: Comm Security Equipment(Comsec) |  |  |  |  |  | P-1 Line Item Number / Title: 831970 / Modifications (COMSEC) |  |  |  |  |  |  |
| 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | FY 2017 Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 1.363 | 0.677 | - | - | - | - | - | - | - | - | 2.040 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 1.363 | 0.677 | - | - | - | - | - | - | - | - | 2.040 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 1.363 | 0.677 | - | - | - | $\cdot$ | $\cdot$ | - | - | - | 2.040 |
| (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:

The Communications Security (COMSEC) modification activity ensures the integration, installation, and sustainment of cryptographic equipment. This activity is a critical component in providing robust, secure
 modification of selected COMSEC equipment. These modification efforts ensure legacy equipment can meet current COMSEC operational environment requirements. Funding for this effort is in program element (PE) 0303140F.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
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> 831970 / Modifications (COMSEC)

Equip / BSA 1: Comm Security Equipment(Comsec)

| 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | Modifications (COMSEC) |  |  | 1 | - 11.363 | - 10.677 | 1 | 1 | - 1 |
| P-40 | Total Gross/Weapon System Cost |  |  | 1 | - 11.363 | - 10.677 | 1 | 1 - | - 1 - |

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

## Justification:

FY17 funding provides replacement of critical components to maintain mission data life cycle requirements. As the obsolescence of parts
occurs in the sustainment of the products, modifications must be implemented to keep the products operational for satellite programs. Funds are used to update both cryptographic product end items and logistics lifecycle support elements.

FY17-specific modifications include upgrades to new KS-252 crypto modernization product. The KS-252 is next generation command control encryption and telemetry decryption product enabled with 5 algorithms used in satellite ground control stations. Current delivered units have an inadvertent timer rollover event which results in the unit resting every 49 days with impacts to satellite operations. There are also classified "features" that need to be fixed and the product re-certified by NSA.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
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:

832060 / Intelligence Training 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: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 2.832 | 4.041 | 6.982 | - | 6.982 | 5.836 | 5.476 | 5.572 | 5.673 | - | 36.412 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 2.832 | 4.041 | 6.982 | - | 6.982 | 5.836 | 5.476 | 5.572 | 5.673 | - | 36.412 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 2.832 | 4.041 | 6.982 | - | 6.982 | 5.836 | 5.476 | 5.572 | 5.673 | - | 36.412 |
| (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 FY17 funding request was reduced by $\$ 1.122 \mathrm{M}$ to account for the availability of prior year execution balances.



 supports intelligence training for Air Force (AF) personnel and members of all Department of Defense (DoD) services at Goodfellow Air Force Base (GAFB), Texas.

PE 0804733F GENERAL INTELLIGENCE SKILL TRAINING (GIST)
 enterprise architecture, which consolidates multiple networks and systems into an integrated GITA.

The FY17 funding request includes an increase to account for additional Air Force requirements.
Funding for this exhibit contained in PE 0804733F.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |  |  |  |
| 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 Ite | m MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base |  | FY 2017 OCO | FY 2017 Total |
| $\begin{gathered} \text { Exhibit } \\ \text { Type } \\ \hline \end{gathered}$ | Inteligence Trainin Equipment ${ }^{\text {Title* }}$ |  | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Con } \end{array}$ | 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 |  |  | Intelligence Training Equipment Total Gross/Weapon System Cost |  |  |  | - 1 - | - 12.832 | - /4.041 | - /6.982 |  | - 1 - | - 16.982 |
| P-40 |  |  |  |  |  |  | -1- | - 12.832 | - 14.041 | - 16.982 |  | -1- | - 16.982 |

 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
GOODFELLOW INTELLIGENCE TRAINING ARCHITECTURE (GITA) Upgrade: FY17 funding includes a portion of an overall $\$ 25 \mathrm{M}$ increase within Air Education \& Training Command (AETC) to fix numerous training disconnects and mitigate training aircraft obsolescence in avionics, software, and ground based training systems (GBTS). This budget line will also continue to fund the GAFB Intelligence Training System (ITS) and GITA infrastructure consisting of the hardware and associated software replacements to the training network backbone. The GITA effort procures additional hardware for interactive courseware development labs, workstations supporting scenario-based exercise training, and servers and network equipment needed to support software used in the field and combatant commands.

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Intelligence Training Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832060 / Intelligence Training Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| UNCATEGORIZED |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GITA UPGRADE | A |  | - | - | - | - | - | 2.832 | - | - | 4.041 | - | - | 6.982 | - | - |  | - |  | 6.982 |
| Subtotal: UNCATEGORIZED |  |  | - | - | - | - | - | 2.832 | - | - | 4.041 | - | - | 6.982 | - | - | - | - | - | 6.982 |
| Total |  |  | - | - | $\cdot$ | - | - | 2.832 | - | - | 4.041 | - | - | 6.982 | - | - | - | - | - | 6.982 |

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 2017 Air Force
Date: February 2016

## 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: 0305179F, 0305192F, 0305221F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 22.168 | 32.329 | 22.573 | 30.504 | - | 30.504 | $31.955^{\text {(a) }}$ | $30.437^{(b)}$ | $28.989{ }^{\text {(c) }}$ | $29.512^{\text {(d) }}$ | - | $228.467^{(\mathrm{e})}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 22.168 | 32.329 | 22.573 | 30.504 | - | 30.504 | 31.955 | 30.437 | 28.989 | 29.512 | - | 228.467 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 22.168 | 32.329 | 22.573 | 30.504 | - | 30.504 | 31.955 | 30.437 | 28.989 | 29.512 | - | 228.467 |
| (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:

FY17 funding was reduced by $\$ .754 \mathrm{M}$ to account for the availability of prior year execution balances.
Combat Air Intelligence System Activities PE 0207431F - P-40A



 Weapon System Video (WSV) as an optional load, all previously fielded as separate systems. ULI simplifies unit deployment requirements with all-in-one standard system.

 imagery products and associated data to support their respective mission needs.




 national and theater-produced intelligence.
 (ISR) reports. The two ISR-related components of IOTA are the mission report (MISREP) analysis tool (MAT) and ISR Assessment Tool (IAT).

## P-1 Line Item Number / Title:

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: 0305179F, 0305192F, <br> 0305221F | Other Related Program Elements: N/A |
| :--- | :--- | :--- | :--- |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |

Intelligence Automated Data Processing Equipment (IADPE): Provides capital equipment replacement program funds for USAFE data processing systems and communications network. Provides unit operation access to authoritative data in support of mission planning and tactical operations, to include locally collected tactical imagery, live video streams, and other intelligence with national and theater-produced intelligence.

Targeting and Geospatial-Intelligence (T\&G) Program Management Office (PMO) Center of Excellence (COE): 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, GPL, IOTA, and any new T\&G capability not fielded via other paths commencing in FY17.

Defense Joint Counterintelligence Activities PE 0305146F - P-40A
Supports both Technical Surveillance and Technical Surveillance Countermeasures (TSCM to counterintelligence operations conducted by the Air Force Office of Special Investigations for AF and DoD entities to detect and deter covert activities conducted by Foreign Intelligence Services seeking to compromise classified or sensitive information. The technical equipment required for these investigations is unique and complex and is a part of the formally designated USAF TSCM weapons system.

Integrated Broadcast Service (IBS) PE 0305179F - Intelligence Comm Equipment
INTEGRATED BROADCAST SERVICE (IBS): The IBS is a multi-sensor, multisource system of systems for the dissemination of integrated threat warning and blue force tracking information. IBS provides intelligence producers and information sources the means to analyze and disseminate strategic, operational, and tactical intelligence and warning information directly to the warfighter. The IBS operational baseline represents the migration, integration, and consolidation of existing tactical data dissemination into a future common architecture message format.

Military Intelligence Program (MIP) Activities PE 0305192F - P-40A
Provides data recovery capabilities for mission critical intelligence information across the Service. AF DRP is working with the four Joint Worldwide Intelligence Systems (JWICS) Enterprise Service Centers (ESCs) to integrate Disaster Recovery capabilities for core services such as email, file, and print servers. After recovery solutions have been provided for these services, AF DRP will seek to secure critical mission data and applications. The AF DRP backup and recovery at the ESCs will provide support ranging from the AF Intelligence Center's strategic national intelligence role down to operational mission units. This is MIP funding.

Network-Centric Collaborative Targeting PE 0305221F - P-40A
Network Centric Collaborative Targeting (NCCT) is the Air Force program of record responsible for investing in core geo-location tools and technologies to horizontally and vertically integrate Battle Management/ Command and Control/Intelligence, Surveillance and Reconnaissance (BM/C2/ISR) sensor systems both within and across disciplines. NCCT consists of hardware and software standards, network management, cross-domain solutions, platform interface modules and data correlation services. Correlated information enables rapid geo-location and tracking to execute Air Superiority as well as support Joint and Coalition contributions to national security requirements. NCCT correlation and fusion services represent the software segment of the program and are responsible for ingest operations, targeting, and intelligence collection data to produce a single, composite track (identification and geo-location) of time-sensitive and high priority targets. NCCT software applications employ machine-to-machine interfaces and internet protocol (IP) communications connectivity to coordinate sensor cross-cues and collection activities. NCCT research and development funding supports evolutionary development of the NCCT message set and network management systems, the migration of the NCCT technologies to emerging network centric technologies (service oriented architectures and web services), and satisfaction of DoD standards and information assurance requirements.

Current NCCT-enabled systems and programmed efforts include, but are not limited to, RC-135 RIVET JOINT/COMBAT SENT/COBRA BALL systems, EC-130 COMPASS CALL, Distributed Common Ground Systems (DCGS), forward processing/exploitation/dissemination (FPED), Falconer Air Operations Centers (AOC), vehicle and dismount exploitation radar (VADER), Gorgon Stare QRC, MC-12W Liberty Project Aircraft, Overhead Intelligence Operations (OIO), national systems, and multiple coalition partner platforms.

The NCCT core technologies investments include, but are not limited to, operations interfaces, network controllers, fusion engines, and data guards for multilevel security hardware and software items based on operator specified rule-sets. NCCT core technology also supports Air Force and Joint experiments, demonstrations and exercises as necessary.

## Appropriation / Budget Activity / Budget Sub Activity:

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


Space Situation Awareness Operations - MIP PE 0305942F - P-40A
DISTRIBUTED SPACE COMMAND AND CONTROL - DAHLGREN (DSC2-D): The DSC2-D, located in Dahlgren, VA, is the alternate Command and Control facility to the Joint Space Operations Center (JSpOC) Space Situational Awareness Cell at Vandenberg AFB, CA. As the operational backup, it provides support to the Air Force Space Command mission responsibilities for cataloging and maintenance of satellite payloads and debris, New Foreign Launch orbit determination, and collision avoidance. Additionally, the DSC2-D is the sole provider for unique Navy SSA data products for Fleet and ashore support and also provides SSA data products to other National users.

COBRA DANE RADAR: The Cobra Dane Radar improves midcourse Ballistic Missile Defense System (BMDS) sensor coverage to provide tracking of threat ballistic missiles to commit the launch of interceptors and to update the target tracks while the interceptor is in flight.

Space Superiority Intelligence - P-40A
Cyber Situational Awareness Weapon System (C-SAWS) is a process for connecting 24 AF unfiltered AF traffic flow and moving it to 25 AF for PED (Processing, Analysis and Distribution) enabling the first AF Cyber ISR collection and processing capability to provide ISR based adversary cyber activity Indications and Warnings (I\&W) for Situational Awareness (SA). The program provides a dedicated AF Cyber ISR platform (Remote Data Collector and Remote Data Processor) array that connects to the highest level at the network gateway locations to obtain unfiltered netflow and packet capture (PCAP). This data is moved via long-haul to the 25 AF EI Dorado PED system for analysis. The fusion of all source intelligence and net flow analysis provides actionable CTA (Cyber Threat Advisories) reports to cyber operators for the appropriate and proactive actions.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016


P-1 Line Item Number / Title:
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: 0305179F, 0305192F, 0305221F |  |  |  | Other Related Program Elements: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | Combat Air Intelligence System Activities |  |  | 14.020 | - 15.110 | - 13.894 | - 16.242 | - 1- | - 16.242 |
| P-40a | Defense Joint Counterintelligence Activities |  |  | 10.756 | - 10.618 | - 10.460 | - 10.711 | - 1 - | - 10.711 |
| P-40a | Integrated Broadcast Service (IBS) |  |  | 14.000 | - 13.872 | - 11.905 | - 14.003 | - 1 - | - 14.003 |
| P-40a | Integrated Broadcast Service (IBS) |  |  | - /10.121 | - /11.082 | - 19.506 | - / 12.449 | - 1 - | - /12.449 |
| P-40a | Military Intelligence Program (MIP) Activities |  |  | - 10.000 | - 13.920 | - 12.900 | - 14.520 | - 1 - | - 14.520 |
| P-40a | Network-Centric Collaborative Targeting |  |  | - 10.000 | - 12.970 | - 12.420 | - 12.580 | - 1 - | - 12.580 |
| P-40a | Space Situation Awareness Operations - MIP |  |  | - 13.271 | - 14.757 | - 1 - | - 1 | - 1 - | 1 |
| P-40a | Space Superiority Intelligence |  |  | - 10.000 | - 1 | - 11.490 | 1 | 1 | 1 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 122.168 | - 132.329 | 122.573 | - 130.504 | 1 | 130.504 |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | Combat Air Intelligence System Activities |  |  | - 1 - | - 1 - | - 1 - | - 1 | - 1 - | - 1 - |
| P-40a | Defense Joint Counterintelligence Activities |  |  | - 1 - | - 1 | - 1 | - 1 | - 1 - | - 1 |
| P-40a | Integrated Broadcast Service (IBS) |  |  | - 1- | 1 | 1 - | - 1 - | 1 | 1 |
| P-40a | Integrated Broadcast Service (IBS) |  |  | - /11.936 | - /10.940 | - /11.266 | - /11.480 | 1 | - 188.780 |
| P-40a | Military Intelligence Program (MIP) Activities |  |  | - 14.390 | - 14.070 | - 14.140 | - 14.210 | 1 - | - 128.150 |
| P-40a | Network-Centric Collaborative Targeting |  |  | - 13.280 | - 13.090 | - 13.140 | - 13.200 | - 1 - | - 120.680 |
| P-40a | Space Situation Awareness Operations - MIP |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a | Space Superiority Intelligence |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  | - 131.955 | - 130.437 | - 128.989 | - 129.512 | - 1 - | - 1228.467 |

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

## Justification:

Combat Air Intelligence System Activities PE 0207431F - P-40A
 repository for intelligence threat assessment and combat mission planning support at over 260 units worldwide.

 over 327 units worldwide

## 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: 0305179F, 0305192F, 0305221F | Other Related Program Elements: N/A |
| :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A |  |  |
| INFORMATION STORAGE (iSToRE): FY17 funding provides for the capital equipment replacement of iSToRE systems to provide imagery analysts, cartographers, intelligence and operations personnel direct access to imagery products and associated data to support their respective mission needs at wing and below units, to include the Air Force Targeting Center. |  |  |
| GLOBAL COMMAND AND CONTROL SYSTEM -INTEGRATED IMAGERY AND INTELLIGENCE (GCCS-I3): FY17 funding provides for the capital equipment replacement of GCCS-I3 servers and associated equipment to provide a centralized targeting data infrastructure throughout the Air Force Targeting Enterprise (AFTE). |  |  |
| Information for Operational and Tactical Analysis (IOTA): FY17 funding provided installation costs in support of fielding into the Air Operations Centers (AOC). |  |  |
| Intelligence Automated Data Processing Equipment (IADPE): FY17 funding will be used to procure servers, storage devices, associated hardware upgrades and installation costs. |  |  |
| Targeting and Geospatial Intelligence (T\&G) PMO Center of Excellence (COE): FY17 funding will be used for site surveys and installation costs in support of fielding new capabilities. |  |  |

Defense Joint Counterintelligence Activities PE 0305146F - P-40A
 activities.

Integrated Broadcast Service (IBS) PE 0305179F - Intelligence Comm Equipment
FY17 funding for IBS procurement efforts are focused in the following areas:

 migration to Common Interactive Broadcast Uplink Sites.


 compliance to achieve threshold requirements.
 procures the infrastructure for dynamic software library updates for multiple operating systems essential to broadcast operation.

 environment.

 systems engineering activities.
 integration as necessitated by mission changes, system interoperability, and system security.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force | Date: February 2016 |  |
| :--- | :--- | :--- |
| 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=Serice Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: 0305179F, 0305192F, <br> $0305221 F$ | Other Related Program Elements: N/A |
| :--- | :--- | :--- | :--- |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |

Military Intelligence Program (MIP) Activities PE 0305192F - P-40A
FY17 funding will enable completion of AF JWICS Enterprise disaster recovery capabilities for core services at the four Enterprise Service Centers (ESCs). AF DRP will determine implementation strategy for the development and application of a disaster recovery solution for NASIC, PACAF, and possibly EUCOM to support their local Continuity of Operations/Disaster Recovery (COOP/DR) requirements by providing information recovery technology for Top Secret/Sensitive Compartmented Information (SCI) level networks. Funds will be used to conduct site surveys, procure servers, storage devices, associated software/ hardware upgrades, and installation costs.

Network-Centric Collaborative Targeting PE 0305221F - P-40A
FY17 funding is for NCCT hardware refresh at ground stations in support of a new software baseline roll out and user requested upgrades. The NCCT core technologies investments include, but are not limited to, operations interfaces, network controllers, fusion engines, and data guards for multi-level security hardware and software items based on operator specified rule-sets. NCCT core technology also supports Air Force and Joint experiments, demonstrations and exercises as necessary.

Space Situation Awareness Operations - MIP PE 0305942F - P-40A
No FY17 funding requested.
Space Superiority Intelligence - P-40A
No FY17 funding requested.

Efforts with funding starting in FY 2018 through FY 2021 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 2018 Cost Delta: 12.349 million
${ }^{(b)}$ FY 2019 Cost Delta: 12.337 million
${ }^{(c)}$ FY 2020 Cost Delta: 10.443 million
${ }^{\text {(d) }}$ FY 2021 Cost Delta: 10.622 million
${ }^{(\mathrm{e})}$ FY Total Cost Delta: 90.857 million

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] |  | MDAP/ MAIS Code | 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) | $\underset{\text { (Each) }}{\text { Qty }}$ | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CAIS PE 0207431F | A |  | - | - | 4.020 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| ULI | A |  | - | - | 0.000 | - | - | 5.110 | - | - | 1.368 | - | - | 2.228 | - | - | - | - | - | 2.228 |
| GPL | A |  | - | - | 0.000 | - | - | - - | - | - | 1.080 | - | - | 1.800 | - | - | - | - | - | 1.800 |
| IStore | A |  | - | - | 0.000 | - | - | - | - | - | 0.520 | - | - | 0.550 | - | - | - | - | - | 0.550 |
| GCCS-13 | A |  | - | - | 0.000 | - | - | - | - | - | 0.312 | - | - | 0.523 | - | - | - | - | - | 0.523 |
| IOTA | A |  | - | - | 0.000 | - | - | - - | - | - | 0.314 | - | - | - | - | - | - | - | - | - |
| COE T\&G Integrator | A |  | - | - | 0.000 | - | - | - - | - | - | 0.300 | - | - | 0.821 | - | - | - | - | - | 0.821 |
| IADPE | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | 0.320 | - | - | - | - | - | 0.320 |
| Subtotal: Uncategorized |  |  | - | - | 4.020 | - | - | 5.110 | - | - | 3.894 | - | - | 6.242 | - | - | - | - | - | 6.242 |
| Total |  |  | - | - | 4.020 | - | - | 5.110 | - | - | 3.894 | - | - | 6.242 | - | - | - | - | - | 6.242 |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 03 / 2$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  | Aggregated Items Title: Defense Joint Counterintelligence Activities |  |  |  |  |
|  |  |  |  | ior Yea |  |  | Y 2015 |  |  | FY 2016 |  |  | 2017 Ba |  |  | 2017 O |  |  | 2017 T |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAPI } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | 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 (\$ 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) | $\underset{(\$ M)}{\text { Unit Cost }}$ | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEFENSE JOINT COUNTERINTELLIG PROGRAM PE 0305146F | ACE |  | - | - | 0.756 | - | - | 0.618 | - | - | 0.460 | - | - | 0.711 | - | - | - | - | - | 0.711 |
| Subtotal: Uncategorized |  |  | - | - | 0.756 | - | - | 0.618 | - | - | 0.460 | - | - | 0.711 | - | - | - | - | - | 0.711 |
| Total |  |  | - | - | 0.756 | - |  | 0.618 | - | - | 0.460 | - | - | 0.711 | - | - | - | - | - | 0.711 |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  | Aggregated Items Title: Integrated Broadcast Service (IBS) |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IBS-NS PE 0305179F | A |  | - | - | 4.000 | - | - | 3.872 | - | - | 1.905 | - | - | 4.003 | - | - | - | - | - | 4.003 |
| Subtotal: Uncategorized |  |  | - | - | 4.000 | - | - | 3.872 | - | - | 1.905 | - | - | 4.003 | - | - | - | - | - | 4.003 |
| Total |  |  | - | - | 4.000 | - | - | 3.872 | - | - | 1.905 | - | - | 4.003 | - | - | - | - | - | 4.003 |

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

## Remarks:

 system interoperability, and system security.

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force ${ }^{\text {a }}$ ( ${ }^{\text {a }}$ ( |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Modification Items Title: Integrated Broadcast Service (IBS) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03/2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
| Item Number / Title | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \\ & \hline \end{aligned}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
|  |  |  | $\begin{array}{\|c} \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Mod 1 IBS / Mod 1 IBS |  |  | - | - | 2.616 | - |  | 2.642 | - |  | 1.548 | - | - | 3.741 | - | - |  | - | - | 3.741 |
| Mod $2 / \operatorname{Mod} 2$ |  |  | - | - | 3.108 | - |  | 3.167 | - |  | 3.167 | - | - | 3.167 | - | - | - | - |  | 3.167 |
| Mod $3 / \operatorname{Mod} 3$ |  |  | - |  | 1.274 | - |  | 1.298 | - |  | 0.816 | - | - | 1.298 | - | - | - | - | - | 1.298 |
| Mod $4 / \operatorname{Mod} 4$ |  |  | - |  | 2.063 | - |  | 2.102 | - |  | 2.102 | - | - | 2.370 | - | - |  | - | - | 2.370 |
| Mod 5/ $\operatorname{Mod} 5$ |  |  | - |  | 1.060 | - |  | 1.873 | - |  | 1.873 | - | - | 1.873 | - | - | - | - | - | 1.873 |
| Total |  |  | - |  | 10.121 | - |  | 11.082 | - |  | 9.506 | - | - | 12.449 | - | $\cdot$ | - | $\cdot$ | - | 12.449 |
|  |  |  |  | FY 2018 |  |  | Y 2019 |  |  | FY 2020 |  |  | Y 2021 |  |  | Comple |  |  | tal Cos |  |
| 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 <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 <br> 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 <br> Cost <br> (\$ M) |
| Mod 1 IBS / Mod 1 IBS |  |  | - | - | 3.354 | - | - | 2.500 | - | - | 2.573 | - | - | 2.622 | - | - | - | - | - | 21.596 |
| Mod $2 / \mathrm{Mod} 2$ |  |  | - | - | 3.133 | - | - | 3.167 | - | - | 3.262 | - | - | 3.324 | - | - | - | - | - | 25.495 |
| Mod $3 / \operatorname{Mod} 3$ |  |  | - | - | 1.300 | - | - | 1.298 | - |  | 1.337 | - | - | 1.362 | - | - | - | - | - | 9.983 |
| Mod $4 / \mathrm{Mod} 4$ |  |  | - | - | 2.276 | - | - | 2.102 | - |  | 2.165 | - | - | 2.206 | - | - | - | - | - | 17.386 |
| Mod $5 / \operatorname{Mod} 5$ |  |  | - | - | 1.873 | - | - | 1.873 | - | - | 1.929 | - | - | 1.966 | - | - | - | - | - | 14.320 |
| Total |  |  | - | - | 11.936 | - |  | 10.940 | - | - | 11.266 | - | - | 11.480 | - | - |  | - | - | 88.780 |

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 |  |
| :--- | :--- | :--- |
| Mod 1 IBS $/$ Mod 1 IBS | IBS | Reliability \& Maintainability |
| Mod 2 / Mod 2 | IBS | Reliability \& Maintainability |
| Mod $3 / \operatorname{Mod} 3$ | IBS | Reliability \& Maintainability |
| Mod 4 / Mod 4 | IBS | Reliability \& Maintainability |
| Mod $5 / \operatorname{Mod} 5$ | Reliability \& Maintainability |  |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Modification Items Title: <br> Military Intelligence Program (MIP) <br> Activities |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{array}{\|c\|} \hline \text { ID } \\ \mathrm{CD} \end{array}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | 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) |
| MIP1/JWICS |  |  | - | - | - | - |  | 3.920 | - |  | 2.900 | - | - | 4.520 | - | - | - | - |  | 4.520 |
| Total |  |  |  |  | 0.000 | . |  | 3.920 | - |  | 2.900 |  |  | 4.520 |  |  |  |  |  | 4.520 |
|  | $\begin{array}{\|c\|} \text { ID } \\ \text { CD } \end{array}$ | $\begin{aligned} & \text { MDAPI/ } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title |  |  | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| MIP1/JWICS |  |  | - | - | 4.390 | - | - | 4.070 | - | - | 4.140 | - | - | 4.210 | - | - | - | - | - | 28.150 |
| Total |  |  | - | $\cdot$ | 4.390 | - | - | 4.070 | - | $\cdot$ | 4.140 | - | - | 4.210 | - | $\cdot$ | - | - | - | 28.150 |

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 |
| :--- | :--- | :--- | :--- |
| MIP1 / JWICS | 0301592 F | Reliability \& Maintainability |

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  | Aggregated Modification Items Title: Network-Centric Collaborative Targeting |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title | $\begin{array}{\|c\|} \text { ID } \\ \text { CD } \end{array}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <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) | 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) |
| NCCT1 / Replacement of Ground Stations |  |  | - | - | - | - |  | 2.970 | - | - | 2.420 | - | - | 2.580 | - |  |  | - |  | 2.580 |
| Total |  |  |  |  | 0.000 | - |  | 2.970 | - |  | 2.420 | - |  | 2.580 | - |  |  |  |  | 2.580 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{array}{\|c\|} \text { ID } \\ \text { CD } \end{array}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| NCCT1 / Replacement of Ground Stations |  |  | - | - | 3.280 | - | - | 3.090 | - | - | 3.140 | - | - | 3.200 | - | - |  | - |  | 20.680 |
| Total |  |  | - | - | 3.280 | - |  | 3.090 | - | - | 3.140 | - | - | 3.200 | - | - |  | - |  | 20.680 |

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> NCCT1 / Replacement of Ground <br> Stations NA Reliability \& Maintainability |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  | Aggregated Items Title: Space Situation Awareness Operations MIP |  |  |  |  |
|  |  |  |  | ior Yea |  |  | FY 2015 |  |  | FY 2016 |  |  | 2017 B |  |  | 2017 O |  |  | 2017 To |  |
| Item Number / Title [DODIC] | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{array}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DSC2-D PE 0305942F | A |  | - | - | 3.271 | - | - | 4.757 | - | - | - | - | - | - | - | - | - | - | - | - |
| COBRA DANE RADAR | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | $\cdot$ | - | 3.271 | - | - | 4.757 | - | $\cdot$ | - | - | - | - | - | - | - | $\cdot$ | - | - |
| Total |  |  |  |  | 3.271 | - |  | 4.757 | - | - | - | - | - | - | - | - | - | - | - | - |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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 (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Space Superiority Intelligence PE 0301400F | A |  | - | - | 0.000 | - | - | - | - | - | 1.490 | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | 0.000 | - | - | - | - | - | 1.490 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 0.000 | - | - | - | - | - | 1.490 | - | - | - | - | - | - | - | - | - |

## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 30.588 | 23.912 | 28.823 | 55.803 | 42.650 | 98.453 | 62.739 | 59.049 | 56.533 | 47.198 | - | 407.295 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 30.588 | 23.912 | 28.823 | 55.803 | 42.650 | 98.453 | 62.739 | 59.049 | 56.533 | 47.198 | - | 407.295 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 30.588 | 23.912 | 28.823 | 55.803 | 42.650 | 98.453 | 62.739 | 59.049 | 56.533 | 47.198 | - | 407.295 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 3.306 | 1.011 | 3.406 | - | 3.406 | 3.119 | 1.072 | 1.390 | 3.563 | - | 16.867 |
| 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.





 will replace the 1970s era mobile precision approach radar. These investments will result in significant manpower and operations/ maintenance savings over the next 20 years.


 Tinker AFB. Approximately 5,200 radios will be replaced.

## 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 Item MDAP/MAIS Code(s): N/A


 AD/1 ANG/2 AFR), and 92 fixed-based TACANs (76 AD/10 ANG/6 AFR) will be procured from FY2012 through FY2018.
3. DEPLOYABLE INSTRUMENT LANDING SYSTEM (D-ILS): D-ILS is a deployable Category I ( 200 ft decision height/2400ft runway visual range) ILS with remote monitoring and maintenance capabilities. DILS will provide precision approach capability in adverse weather conditions for contingency operations and humanitarian or disaster relief operations. D-ILS will replace the current Air Force mobile Precision Approach Radar (PAR) system used to support operations at deployed locations. These systems were procured in the 1970s, are manpower intensive, and logistically unsupportable. On average, only $18 \%$ (three of 17 systems) of the mobile PAR systems are operational on a daily basis. D-ILS will support increased operations in the area of responsibility, allow phase out of the currently obsolete legacy systems and provide interoperability with the Civil Reserve Air Fleet.
4. Deployable Radar Approach Control (D-RAPCON): D-RAPCON will replace the 40 year old AN/MPN-14K and AN/TPN-19 Airport Surveillance Radar (ASR) and Operations Shelter (OPS) subsystems with state of the art digital systems. Modification and overhaul of the existing systems has proven to be ineffective due to diminishing manufacturing sources. On average, no more than three of the existing 17 systems are deployable at any given time. The current AN/TPN-19 and AN/MPN-14K Operational Availability rates are $69 \%$ and $67 \%$ respectively versus the a D-RAPCON requirement of $98 \%$. D-RAPCON will provide aircraft surveillance/sequencing, air traffic control communications, and automation capabilities for terminal area air traffic control operations. D-RAPCON will also be deployed with a fixed base or deployable Instrument Landing System and a fixed or mobile control tower to provide a complete air traffic control capability. The D-RAPCON will support tactical military and worldwide humanitarian operations and also provide a capability to support domestic disaster relief. The primary surveillance radar coverage (non-cooperative targets) is out to 60 nautical miles (nm) and the secondary surveillance radar coverage (cooperative targets) will increase from 120 nm to 200 nm . Due diminishing manufacturing sources, life of type purchases will be required each year. The D-RAPCON Capability Development Document was approved by the Air Force Requirements Oversight Council on 8 Feb 11.

Funding for this exhibit is contained in Program Element (PE) 0305114F.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 215 | 159 | 205 | - | 205 | 168 | 169 | 514 | 528 |
|  | Total Obligation Authority | 20.465 | 26.883 | 55.803 | 2.078 | 57.881 | 49.959 | 45.682 | 42.647 | 18.868 |
| AFNG | Quantity | 5 | 4 | - | 6 | 6 | 1 | 1 | 1 | 1 |
|  | Total Obligation Authority | 1.905 | 1.552 | - | 40.572 | 40.572 | 12.780 | 13.367 | 13.886 | 28.330 |
| AFR | Quantity | 4 | 1 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.542 | 0.388 | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 224 | 164 | 205 | 6 | 211 | 169 | 170 | 515 | 529 |
|  | Total Obligation Authority | 23.912 | 28.823 | 55.803 | 42.650 | 98.453 | 62.739 | 59.049 | 56.533 | 47.198 |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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- | - 13.777 | - 12.590 | - 13.282 | - 1 | - 13.282 |
| P-5 | Deployable Radar Approach Control (D-RAPCON) | P-5a | B | 1 | - 1 - | - 1 | 2/24.866 | - 1 | 2/24.866 |
| P-5 | FB NAVAIDs FOS TACAN/VORTAC | P-5a | A | - 18.418 | $26 / 17.045$ | $27 / 16.655$ | $30 / 16.249$ | - 1 | $30 / 16.249$ |
| P-5 | D-ILS | P-5a | A | $2 / 22.170$ | - 13.090 | $1 / 9.578$ | 1 / 11.406 | 6/42.650 | $7 / 54.056$ |
| P-40 | Total Gross/Weapon System Cost |  |  | - 130.588 | - 123.912 | - 128.823 | - 155.803 | - 142.650 | - 198.453 |

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

## Justification:

This program, D-RAPCON P-5, is a new start.

1. DIGITAL AIR TRAFFIC CONTROL (ATC) RADIO REPLACEMENT: FY17 funds procure 172 systems ( 172 AD/0 ANG/0 AFR).
2. ATCALS Fixed Base (FB) Navigational Aids (NAVAIDs) Family of Systems (FoS): FY17 funds procure 23 TACANs ( 23 AD/0 ANG/0 AFR) and 7 VORTACs (7 AD/0 ANG/0 AFR).
3. DEPLOYABLE INSTRUMENT LANDING SYSTEM (D-ILS): FY17 base funds procure 2 systems ( 2 AD/0 ANG/0 AFR); FY17 OCO funds procure 10 systems ( 2 AD/8 ANG/0 AFR).
4. DEPLOYABLE RADAR APPROACH CONTROL (D-RAPCON): FY17 funds procure 2 systems (2 AD/O ANG/O AFR).

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 833010 / Air Traffic Control \& Landing Sys |  |  |  |  |  |  |  | Aggregated Items Title: Digital Air Traffic Control Radio Replacement |  |  |  |  |
|  |  |  |  | ior Yea |  |  | Y 2015 |  |  | FY 2016 |  |  | 2017 Bas |  |  | 2017 O |  |  | 2017 Tot |  |
| 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Digital Air Traffic Control Radio | A |  | - | - | - | 0.019 | 198 | 年 3.777 | 0.019 | 136 | 2.590 | 0.019 | 172 | 3.282 | - | - | - | 0.019 | 172 | 3.282 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 198 | 缶 3.777 |  | 136 | 2.590 |  | 172 | 3.282 |  | - | - |  | 172 | 3.282 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 3.777 | - | - | 2.590 | - | - | 3.282 | - | - | - | - | - | 3.282 |
| Total |  |  | - | - | - | - | - | 3.777 | - | - | 2.590 | - | - | 3.282 | - | - | - | - | - | 3.282 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
Remarks:
Digital ATC Radios being procured through FAA contract awarded to General Dynamics with fixed price options extending through 2022.

## UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  | P-1 Line Item Number / Title: 833010 / Air Traffic Control \& Landing Sys |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> - / Deployable Radar Approach Control (D-RAPCON) |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2015 |  | FY 2016 |  | FY 2017 Base |  |  | FY 2017 OCO |  | FY 2017 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | - |  |  |  |  | 2 |  | - |  | 2 |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | 24.866 |  | - |  | 24.866 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | 24.866 |  | - |  | 24.866 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | 24.866 |  | - |  | 24.866 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  | 1.009 |  |  | - |  | 12.009 |  |
| Gross/Weapon System Unit Cost (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | 2.433 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \\ & \hline \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty <br> (Each) | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & \text { (\$M) } \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | Qty <br> (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ M) |
| Hardware - D-RAPCON Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PME Refurbished Unit ${ }^{(t)}$ | - | - | - | - |  | - | - | - | - | 3.571 | 1 | 3.571 | - |  | - | 3.571 | 1 | 3.571 |
| PME Production Unit ${ }^{(t)}$ | - | - | - | - |  | - - | - | - | - | 14.933 | 1 | 14.933 | - |  | - - | 14.933 | 1 | 14.933 |
| Subtotal: Recurring Cost | - | - | - | - |  | - - | - | - | - | - | - | 18.504 | - |  | - - | - | - | 18.504 |
| Subtotal: Hardware - D- <br> RAPCON Cost | - | - | - | . |  | - . | - | - | - | - | - | 18.504 | - |  | - | - | - | 18.504 |
| Support - D-RAPCON Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Procurement Cost | - | - | - | - |  | - | - | - | - | - | - | 5.287 | - |  | - - | - | - | 5.287 |
| Direct Mission Support/ GFE | - | - | - | . |  | - - | - | - | - | - | - | 0.462 | - |  | - - | - | - | 0.462 |
| PMA Contractor Services AFLCMC (Hanscom AFB) | - | - | - | - |  | - | - | - | - | - | - | 0.161 | - |  | - - | - | - | 0.161 |
| PMA Other Government Costs | - | - | - | - |  | - - | - | - | - | - | - | 0.452 | - |  | - - | - | - | 0.452 |
| Subtotal: Support - DRAPCON Cost | - | - | - | - |  | - - | - | - | - | - | - | 6.362 | - |  | - - | - | - | 6.362 |
| Gross/Weapon System Cost | - | - | - | - |  | - | - | - | - | 12.433 | 2 | 24.866 | - |  | - - | 12.433 | 2 | 24.866 |

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| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  | P-1 Line Item Number / Title: 833010 / Air Traffic Control \& Landing Sys |  |  | Item Number / Title [DODIC]: <br> - / Deployable Radar Approach Control <br> (D-RAPCON) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{aligned} & \text { FY } 2017 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { Total } \end{aligned}$ |
| AF | Quantity | - | - |  | 2 | 2 |
|  | Total Obligation Authority | - | - | 24.866 | 6 | 24.866 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - |
| Total: Secondary Distribution | Quantity | - | - | 2 | 2 | 2 |
|  | Total Obligation Authority | $\cdot$ | $\cdot$ | 24.866 | 6 | 24.866 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 (D-RAPCON) |  |  |  |  |
| Cost Elements | 0 <br> c <br> c | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| PME Refurbished Unit |  | 2017 | Raytheon IDS / Marlboro, MA | C/FPIF | AFLCMC Hanscom AFB | Sep 2017 | Apr 2018 | 1 | 3.571 | N | Jan 2017 | Jan 2017 |
| PME Production Unit |  | 2017 | Raytheon IDS / Marlboro, MA | C/FPIF | AFLCMC Hanscom AFB | Mar 2017 | Jun 2018 | 1 | 14.933 | N | Jan 2017 | Jan 2017 |

Remarks:
Raytheon Fixed Price Incentive Firm (FPIF) contract with production options

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 3
## P-1 Line Item Number / Title: 833010 / Air Traffic Control \& Landing Sys

Date: February 2016

## Item Number / Title [DODIC]:

- I FB NAVAIDs FOS TACAN/VORTAC

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

| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 26 | 27 | 30 | - | 30 |
| Gross/Weapon System Cost (\$ in Millions) | 8.418 | 17.045 | 16.655 | 16.249 | - | 16.249 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 8.418 | 17.045 | 16.655 | 16.249 | - | 16.249 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 8.418 | 17.045 | 16.655 | 16.249 | - | 16.249 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 3.172 | 0.955 | 1.875 | - | 1.875 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | 0.656 | 0.617 | 0.542 | - | 0.542 |

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

| Cost Elements | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |

Hardware - FB NAVAIDs FOS TACAN/VORTAC Cost

| Recurring Cost |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FB NAVAIDs FOS TACAN Replacement ${ }^{(\dagger)}$ | 0.338 | 21 | 7.098 | 0.381 | 20 | 7.620 | 0.388 | 20 |
| FB NAVAIDs FOS VORTAC Replacement ${ }^{(\dagger)}$ | 0.440 | 3 | 1.320 | 0.452 | 6 | 2.712 | 0.465 | 7 |
| Subtotal: Recurring Cost | - | - | 8.418 | - | - | 10.332 | - | - |
| Subtotal: Hardware - FB NAVAIDs FOS TACAN/ VORTAC Cost | - | - | 8.418 | - | - | 10.332 | - | - |


| 7.760 | 0.388 | 23 |  |
| ---: | ---: | ---: | ---: |
| 3.255 | 0.470 | 7 | - |
| 11.015 | - | - |  |
| 11.015 | - | - |  |


| 8.924 | - | - | - | 0.388 | 23 | 8.924 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 3.290 | - | - | - | 0.470 | 7 | 3.290 |
| 12.214 | - | - | - | - | - | 12.214 |
| $\mathbf{1 2 . 2 1 4}$ | - | - | - | - | - | $\mathbf{1 2 . 2 1 4}$ |

Support - FB NAVAIDs FOS TACAN/VORTAC Cost

| Tech Order Digitization | - | - | - | - | - | - | - | - | 1.244 | - | - | 0.260 | - | - | - | - | - | 0.260 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Interim Contractor Support | - | - | - | - | - | 0.400 | - | - | 0.325 | - | - | 0.250 | - | - | - | - | - | 0.250 |
| Depot Activation | - | - | - | - | - | 2.233 | - | - | 2.112 | - | - | 1.495 | - | - | - | - | - | 1.495 |
| Universal Remote Status System | - | - | - | - | - | 2.165 | - | - | - | - | - | - | - | - | - | - | - | - |
| Direct Mission Support | - | - | - | - | - | 0.643 | - | - | 0.664 | - | - | 0.590 | - | - | - | - | - | 0.590 |
| ATCALS PMA AFLCMC (Tinker AFB) Contractor Services | - | - | - | - | - | 0.822 | - | - | 0.835 | - | - | 0.980 | - | - | - | - | - | 0.980 |
| ATCALS PMA AFLCMC (Tinker AFB) Other Government Costs | - | - | - | - | - | 0.200 | - | - | 0.205 | - | - | 0.210 | - | - | - | - | - | 0.210 |

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| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  | P-1 Line Item Number / Title: 833010 / Air Traffic Control \& Landing Sys |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> - / FB NAVAIDs FOS TACAN/VORTAC |  |  |  |  |
| 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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Cost Elements | 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) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | $\underset{(\$ M)}{\text { Unit Cost }} \underset{\substack{\text { Qty } \\ \text { (Each) }}}{\text { ( }}$ |  | Total <br> 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) |
| Installation Travel | - |  | - | - | - | 0.250 | - | - | 0.255 | - |  | 0.250 | - |  | - | - | - | 0.250 |
| Subtotal: Support - FB NAVAIDS FOS TACAN/ VORTAC Cost | - | - | - | - | - | 6.713 | - | - | 5.640 | - | - | 4.035 | - |  | - | - | - | 4.035 |
| Gross/Weapon System Cost | - | - | 8.418 | 0.656 | 26 | 17.045 | 0.617 | 27 | 16.655 | 0.542 |  | 16.249 | - |  | - | 0.542 | 30 | 16.249 |
| Secondary Distribution |  |  |  |  |  |  | FY 2015 |  | FY 2016 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ |  |  | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ |  |
| AF |  | Quantity |  |  |  |  |  |  |  | 17 |  |  | 22 | 30 |  |  |  | - |  | 30 |
|  |  | Total Obligation Authority |  |  |  |  |  | 13.598 |  |  |  |  |  | 14.715 |  | 16.249 |  |  | - |  | 16.249 |
| AFNG |  | Quantity |  |  |  |  |  | 5 |  |  | 4 |  | - |  |  | - |  | - |
|  |  | Total Obligation Authority |  |  |  |  |  | 1.905 |  |  | 1.552 |  | - |  |  | - |  | - |
| AFR |  | Quantity |  |  |  |  |  | 4 |  |  | 1 |  | - |  |  | - |  | - |
|  |  | Total Obligation Authority |  |  |  |  |  | 1.542 |  |  | 0.388 |  | - |  |  | - |  | - |
| Total: <br> Secondary Distribution |  |  |  |  |  |  |  | 26 |  |  | 27 |  | 30 |  |  | - |  | 30 |
|  |  |  |  | 17.045 |  |  | 16.655 |  | 16.249 |  |  | $\cdot$ |  | 16.249 |

[^1]UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 03 / 3$ |  |  |  | P-1 Line Item Number / Title: 833010 / Air Traffic Control \& Landing Sys |  |  |  | Item Number / Title [DODIC]: <br> - / FB NAVAIDs FOS TACAN/VORTAC |  |  |  |  |
| Cost Elements | 0 <br> $C$ <br> 0 | 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 |
| FB NAVAIDs FOS TACAN Replacement |  | 2012 | Thales / Overland Park, Kansas | C/FFP | AFLCMC Tinker AFB | Feb 2013 | Jan 2016 | 10 | 0.338 | Y |  | Jan 2012 |
| FB NAVAIDs FOS TACAN Replacement |  | 2013 | Thales / Overland Park, Kansas | C/FFP | AFLCMC Tinker AFB | Mar 2014 | Apr 2016 | 11 | 0.338 | Y |  | Jan 2012 |
| FB NAVAIDs FOS TACAN Replacement |  | 2015 | Thales / Overland Park, Kansas | C/FFP | AFLCMC Tinker AFB | Feb 2015 | Sep 2016 | 20 | 0.381 | Y |  | Jan 2012 |
| FB NAVAIDs FOS TACAN Replacement |  | 2016 | Thales / Overland Park, Kansas | C/FFP | AFLCMC Tinker AFB | Feb 2016 | Apr 2017 | 20 | 0.388 | Y |  | Jan 2012 |
| FB NAVAIDs FOS TACAN Replacement |  | 2017 | Thales / Overland Park, Kansas | C/FFP | AFLCMC Tinker AFB | Feb 2017 | Dec 2017 | 23 | 0.388 | Y |  | Jan 2012 |
| FB NAVAIDs FOS VORTAC Replacement |  | 2013 | Thales / Overland Park, Kansas | C/FFP | AFLCMC Tinker AFB | Mar 2013 | Apr 2016 | 3 | 0.440 | Y |  | Jan 2012 |
| FB NAVAIDs FOS VORTAC Replacement |  | 2015 | Thales / Overland Park, Kansas | C/FFP | AFLCMC Tinker AFB | Feb 2015 | Sep 2016 | 6 | 0.452 | Y |  | Jan 2012 |
| FB NAVAIDs FOS VORTAC Replacement |  | 2016 | Thales / Overland Park, Kansas | C/FFP | AFLCMC Tinker AFB | Feb 2016 | Apr 2017 | 7 | 0.465 | Y |  | Jan 2012 |
| FB NAVAIDs FOS VORTAC Replacement |  | 2017 | Thales / Overland Park, Kansas | C/FFP | AFLCMC Tinker AFB | Feb 2017 | Dec 2017 | 7 | 0.470 | Y |  | Jan 2012 |

## Remarks:

Single contract with five equipment options and option for interim contractor support. Contract awarded to Thales in 2013.

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

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

## P-1 Line Item Number / Title: 833010 / Air Traffic Control \& Landing Sys

## Date: February 2016

## Item Number / Title [DODIC]:

- I D-ILS


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| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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]: - I D-ILS |  |  |  |  |
| Cost Elements | O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| D-ILS Systems |  | 2014 | Thales / Clarksburg, Maryland | SS/FFP | AFLCMC Hanscom AFB | Jul 2015 | May 2016 | 2 | 8.615 | Y |  | Dec 2014 |
| D-ILS Systems |  | 2016 | Thales / Clarksburg, Maryland | SS/FFP | AFLCMC Hanscom AFB | Jul 2016 | Jan 2017 | 1 | 7.107 | Y |  |  |
| D-ILS Systems |  | 2017 | Thales / Clarksburg, Maryland | SS/FFP | AFLCMC Hanscom AFB | Dec 2016 | May 2017 | 1 | 6.762 | Y |  |  |
| D-ILS Systems | $\checkmark$ | 2017 | Thales / Clarksburg, Maryland | SS/FFP | AFLCMC Hanscom AFB | May 2017 | Sep 2017 | 6 | 6.762 | Y |  |  |

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

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

P-1 Line Item Number / Title:
833020 / National Airspace System 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: 0305114F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 537 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 738.597 | 6.291 | 5.833 | 2.673 | - | 2.673 | 2.721 | 2.769 | 2.818 | 2.869 | - | 764.571 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 738.597 | 6.291 | 5.833 | 2.673 | - | 2.673 | 2.721 | 2.769 | 2.818 | 2.869 | - | 764.571 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 738.597 | 6.291 | 5.833 | 2.673 | - | 2.673 | 2.721 | 2.769 | 2.818 | 2.869 | - | 764.571 |
| (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 0305137F NATIONAL AIRSPACE SYSTEM (NAS)
NAS is an Acquisition Category (ACAT) IC (Component) program which entered full rate production on 15 Jun 05. It modernizes the Department of Defense (DoD) Air Traffic Control (ATC) system in concert with the Federal Aviation Administration (FAA) modernization effort. The FAA is the overall NAS program lead and the Air Force (AF) is the DoD lead. NAS increases safety of flight, provides systems and facilities interoperable with FAA modernization, replaces aging DoD ATC systems, provides identical service to military and civilian aircraft, and reduces DoD flight cancellations/delays and maintenance. Equipment procured includes ATC automation systems, surveillance radars, voice switches, military site-unique equipment (at test range facilities), associated Pre-Planned Product Improvements, site preparation, installation support, ancillary equipment and supplies, direct production support, flight, periodic security interoperability, and information technology certifications. For the AF, this includes procurement funding for 91 DoD Advanced Automation Systems (DAASs) [ 45 Radar Approach Control Facilities and 46 Air Traffic Control Towers], 48 Digital Airport Surveillance Radars (DASRs), and other equipment required to interface with the FAA.

DAAS is comprised of equipment tailored to support two types of ATC operations facilities: Radar Approach Control (RAPCON) and military control tower facilities. It provides digital radar displays, consoles, automation hardware and software to replace systems approaching the end of their life cycle. DASR consists of two subsystems: a primary and a secondary surveillance radar. DASR provides aircraft position and other data to controller displays in the RAPCON and at select control tower locations. DASR replaces the current generation of DoD analog ATC surveillance radars.

The NAS modernization program will complete equipment procurement and installation in FY2017 and is now transitioning to the operations and support phase which will focus on mitigation of DAAS/DASR diminishing manufacturing source (DMS) and sustainment issues.

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. Reserve component allocations are subject to Total Force priorities and demand.

PE 0305114F AIR TRAFFIC CONTROL AND LANDING SYSTEMS (ATCALS)

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

P-1 Line Item Number / Title:
833020 / National Airspace System
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: 0305114F

## Line Item MDAP/MAIS Code: 537 Item MDAP/MAIS Code(s): N/A


 DMS issues (replacement of obsolete DAAS processors and displays), and procurement of one DAAS to support the ATCALS/DAAS Operational Support Facility (OSF).
 defense missions, domestic emergency responses, and providing military support to civil authorities. Reserve component allocations are subject to Total Force priorities and demand.
 Schedule.

Funding for this exhibit is contained in PE 0305137F and PE 0305114F

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 264 |  | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 6.291 | 5.833 | 2.673 | - | 2.673 | 2.721 | 2.769 | 2.818 | 2.869 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 264 | 1 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 6.291 | 5.833 | 2.673 | - | 2.673 | 2.721 | 2.769 | 2.818 | 2.869 |

Exhibit P-40, Budget Line Item Justification: PB 2017 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: <br> 833020 / National Airspace System

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: 0305114F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 537 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | Air Traffic Control, Approach, and Landing System (ATCALS) |  |  | 1 | - / 4.114 | - 13.628 | - 1 | 1 | 1 |
| P-5 | National Airspace System (NAS) Plan | P-5a, P-21 | A | 139 /738.597 | - 12.177 | - 12.205 | - 12.673 | - | - 12.673 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1738.597 | - $/ 6.291$ | - 15.833 | - 12.673 | - 1 | - 12.673 |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 Traffic Control, Approach, and Landing System (ATCALS) |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 17.742 |
| P-5 | National Airspace System (NAS) Plan | P-5a, P-21 | A | - $/ 2.721$ | - 12.769 | - $/ 2.818$ | - 12.869 | - 1 | 139 / 756.829 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 12.721 | - 12.769 | - 12.818 | - 12.869 | - 1 - | - 1764.571 |

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

## Justification:

PE 0305114F AIR TRAFFIC CONTROL AND LANDING SYSTEMS (ATCALS): Equipment procurements under the ATCALS PE include the following:


3. ATCALS/DAAS OSF EQUIPMENT: No FY17 funds requested.
 site characteristics, and continue NAS program support.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 833020 / National Airspace System |  |  |  |  |  |  |  | Aggregated Items Title: <br> Air Traffic Control, Approach, and Landing System (ATCALS) |  |  |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
|  |  |  | 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) | 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) |
| NAS Capital Equipment Replacement |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Processors ${ }^{(1)}$ | A |  | - | - | - | 0.010 | 221 | 2.141 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 221 | 2.141 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Displays ${ }^{(2)}$ | A |  | - | - | - | 0.046 | 43 | 1.973 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 43 | 1.973 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| ATCALS/NAS Equip (3) | A |  | - | - | - | - | - | - | 3.628 |  | 3.628 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  |  | 3.628 |  | - | - |  | - | - |  | - | - |
| Subtotal: NAS Capital Equipment Replacement |  |  | - | - | - | - | - | 4.114 | - | - | 3.628 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | - | 4.114 | - | - | 3.628 | - | - | - | - | - | - | - | - | - |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| NAS Capital Equipment Replacement |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Processors ${ }^{(1)}$ | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.010 | 221 | 2.141 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Displays ${ }^{(2)}$ | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.046 | 43 | 1.973 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| ATCALS/NAS Equip (3) | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.628 | 1 | 3.628 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 833020 / National Airspace System |  |  |  |  |  |  |  | Aggregated Items Title: <br> Air Traffic Control, Approach, and Landing System (ATCALS) |  |  |  |  |
|  | $\begin{array}{\|l\|} \text { ID } \\ \text { CD } \end{array}$ | $\begin{array}{\|l} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \begin{array}{c} \text { Qty } \\ \text { (Each) } \end{array} \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: NAS Capital Equipment Replacement |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.742 |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.742 |

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

## Footnotes:

${ }^{(1)}$ Option to the Federal Aviation Administration Standard Terminal Automated Replacement System contract (also known as DAAS).
${ }^{(2)}$ Option to the Federal Aviation Administration Standard Terminal Automated Replacement System contract (also known as DAAS).
${ }^{(3)}$ Option to the Federal Aviation Administration Standard Terminal Automated Replacement System contract (also known as DAAS).

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F/03/3
## P-1 Line Item Number / Title:

833020 / National Airspace System

Date: February 2016

## Item Number / Title [DODIC]:

- / National Airspace System (NAS) Plan

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

| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 139 | - | - | - | - | - | - | - | - | - | - | 139 |
| Gross/Weapon System Cost (\$ in Millions) | 738.597 | 2.177 | 2.205 | 2.673 | - | 2.673 | 2.721 | 2.769 | 2.818 | 2.869 | - | 756.829 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 738.597 | 2.177 | 2.205 | 2.673 | - | 2.673 | 2.721 | 2.769 | 2.818 | 2.869 | - | 756.829 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 738.597 | 2.177 | 2.205 | 2.673 | - | 2.673 | 2.721 | 2.769 | 2.818 | 2.869 | - | 756.829 |

> (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)
) $\quad 5.3$

| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |



Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

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


Logistics - Logistics End Item Cost

| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DASR Site Activation | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Logistics - <br> Logistics End Item Cost | - | - | - | - | - | - | - | - | - | - | - |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |
| Program Management Administration Contractor Services | - | - | 2.627 | - | - | 2.670 | - | - | 2.717 | - | - |
| Program Management Administration Other Government Costs | - | - | 0.094 | - | - | 0.099 | . | - | 0.101 | - | - |
| Subtotal: Support - Support End Item Cost | - | - | 2.721 | - | - | 2.769 | - | - | 2.818 | - | - |
| Gross/Weapon System Cost | - | - | 2.721 | - | - | 2.769 | - | - | 2.818 | - | - |

Remarks:
 approximately one year after option exercise. DASR INCO is completed approximately two years after option exercise.

| Secondary Distribution |  | FY 2015 | FY 2016 | FY 2017 Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.177 | 2.205 | 2.673 | - | 2.673 | 2.721 | 2.769 | 2.818 | 2.869 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.177 | 2.205 | 2.673 | - | 2.673 | 2.721 | 2.769 | 2.818 | 2.869 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  | P-1 Line Item Number / Title: 833020 / National Airspace System |  |  |  | Item Number / Title [DODIC]: <br> - / National Airspace System (NAS) Plan |  |  |  |  |
| Cost Elements | O <br> c <br> 0 | 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 |
| DAAS/DASR ${ }^{(\dagger)}$ |  | 2010 | Raytheon / Marlboro, MA | C/FFP | AFLCMC Hanscom AFB | May 2010 | May 2011 | 5 | 3.325 | $Y$ |  | Oct 2009 |
| DAAS/DASR ${ }^{(\dagger)}$ |  | 2012 | Raytheon / Marlboro, MA | C/FFP | AFLCMC Hanscom AFB | Jan 2012 | Jun 2013 | 6 | 4.169 | $Y$ |  | Oct 2011 |
| DAAS/DASR ${ }^{(\dagger)}$ |  | 2013 | Raytheon / Marlboro, MA | C/FFP | AFLCMC Hanscom AFB | Jan 2013 | Jan 2014 | 9 | 0.936 | Y |  | Sep 2012 |

${ }^{(t)}$ indicates the presence of a P-21


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| Exhibit P-21, Production Schedule: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Item Number / Title [DODIC]: <br> - / National Airspace System (NAS) Plan |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 833020 / National Airspace System |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2010 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2011 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2010 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2011 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \hline \text { FRIUR } \\ \text { TO } 1 \\ \text { OCT } \\ 2009 \end{array}$ | $\begin{gathered} \mathrm{BALE} \\ \text { DUE } \\ \text { ASOF } \\ 1 \mathrm{OCT} \end{gathered}$ | - | N O v | D E C | J A N | $\underset{\mathrm{E}}{\mathrm{E}}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | J U N | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { v } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A P R | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~N} \end{aligned}$ | J u L | A | S E P |  |
| DAAS/ | DASR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | ears De | eliveries: 119 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2010 | $\mathrm{AF}^{(4)}$ | 5 | - | 5 |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - |
| 1 | 2010 | $\mathrm{NAVY}{ }^{(+)}$ | 1 | - | 1 |  |  |  |  |  |  |  | A | - | - | - | - | - | - | - | - | - | - |  | - |  |  |  | - | 1 |
| 1 | 2010 | Total | 6 | - | 6 |  |  |  |  |  |  |  | - | - | - | - | . | - | - | - | - | - | - | - | 5 | - | - | - | - | 1 |
| 1 | 2012 | $\mathrm{AF}^{(5)}$ | 6 | - | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6 |
| 1 | 2012 | NAVY ${ }^{(*)}$ | 3 | - | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| 1 | 2012 | Total | 9 | - | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9 |
| 1 | 2013 | $\mathrm{AF}^{(6)}$ | 9 | - | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9 |
| 1 | 2013 | NAVY ${ }^{(*)}$ | 1 | - | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| 1 | 2013 | Total | 10 | - | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | F E B | M <br>  <br> R | A P R | M A Y | J U N | J | A U G | S <br> $\mathbf{E}$ <br> $\mathbf{P}$ | O C T | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline J \\ & A \\ & \mathrm{~N} \end{aligned}$ | F E B | M A R | A <br>  <br> $\mathbf{R}$ | M A Y | J N | J u L | A | S $\mathbf{E}$ $\mathbf{P}$ |  |

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| Exhibit P-21, Production Schedule: PB 2017 Air Force |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  | P-1 Line Item Number / Title: <br> 833020 / National Airspace System |  |  |  |  | Item Number / Title [DODIC]: <br> - / National Airspace System (NAS) Plan |  |  |
| $\begin{array}{\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2017 | 1-8-5 For 2017 | MAX For 2017 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  |  | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT After Oct 1 | $\begin{gathered} \text { Manufacturing } \\ \text { PLT } \end{gathered}$ | Total After Oct 1 |
| 1 | theon - Marlboro, MA | 5 | 24 | 48 |  |  | - |  |  |  | 12 |  |

## Remarks:

 in turn delays upgrade of the AF towers

DAAS AF Reserve (AFR) and Air National Guard (ANG) deliveries:
Qty FY14 FY15-FY21
AFR 0
${ }^{(\ddagger)}$ Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule
"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:

${ }^{(4)}$ Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2014 loaded in the month of first delivery
${ }^{(5)}$ Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2014 loaded in the month of first delivery
${ }^{(6)}$ Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2014 loaded in the month of first delivery

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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: 0102326F |  |  |  |  | Other Related Program Elements: 0102326F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 14.409 | 2.704 | 1.682 | 5.677 | - | 5.677 | $7.380^{\text {(a) }}$ | $4.047^{\text {(b) }}$ | $4.118^{\text {(c) }}$ | $4.192^{\text {(d) }}$ | - | $44.209{ }^{(\mathrm{e})}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 14.409 | 2.704 | 1.682 | 5.677 | - | 5.677 | 7.380 | 4.047 | 4.118 | 4.192 | - | 44.209 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 14.409 | 2.704 | 1.682 | 5.677 | - | 5.677 | 7.380 | 4.047 | 4.118 | 4.192 | - | 44.209 |


| (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 NORAD/NORTHCOM homeland defense and air sovereignty mission for fixed Air Defense Sectors.

1. BATTLE CONTROL SYSTEM-FIXED (BCS-F): BCS-F is a bi-national program with Canada. The BCS-F Program supports a battle management command and control system with capability to integrate data from existing and future civil and military defense surveillance systems into a comprehensive recognized air picture. BCS-F systems serve as Air Force Homeland Defense battle management Command and Control hubs and integrators for data from radar sensors, data links and supporting communications architecture. 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. BCS-F Increment 3 program ended after reaching full deployment in November 2012. BCSF baseline also includes Remote Tactical Air Picture/Remote Work Station (RTAP/RWS).
2. NATIONAL CAPITAL REGION - INTEGRATED AIR DEFENSE SYSTEM (NCR-IADS): NCR-IADS provides ground-based air defense of the National Capital 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.
3. BATTLE CONTROL SYSTEM MODERNIZATION UPGRADES: Provides for capital equipment replacement activities at the Region Air Operations Center-Air Defense Sector (RAOC-ADS) under the Modernization Upgrade effort for Release 3.2.3 and beyond, which include, but are not limited to, Tactical Data Link Interface Device (TDLID) replacement, Automatic Dependent Surveillance Broadcast(ADSB),Mode 5/Mode S, Computer Network Defense Service Provider (CNDSP), infrastructure upgrades and future Diminishing Manufacturing Sources replacement of other equipment that do not qualify for Centralized Asset Management (CAM) funding. Some aspects of the development are classified and will be provided on a need to know basis.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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: 0102326F |  |  |  | Other Related Program Elements: 0102326F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \end{aligned}$ | 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 | BCSMU |  |  |  | - 10.000 | - 11.202 | - 11.582 | - 13.279 | - 1 | - 13.279 |
| P-40a | NCR IADS |  |  |  | - / 14.409 | - 11.502 | - 10.100 | - 12.398 | - 1 | - 12.398 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 14.409 | - 12.704 | - 11.682 | - 15.677 | - 1 | 15.677 |
| Exhibits Schedule |  |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* |  | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \end{aligned}$ | 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 | BCSMU |  |  |  | - 10.500 | - 1 | - 1 - | - 1 | - 1 - | - 16.563 |
| P-40a | NCR IADS |  |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 17.380 | - 14.047 | - 14.118 | - 14.192 | - 1 - | - 144.209 |

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

## Justification:

Justification:

1. BCS-F
a. BCS-F INC 3 UPGRADES: No FY17 funds requested.
2. NCR-IADS


3. BATTLE CONTROL SYSTEM MODERNIZATION UPGRADES:
 capability. It will also provide hardware for increased cyber security capability.
 follows:
${ }^{(a)}$ FY 2018 Cost Delta: 6.880 million
${ }^{\text {(b) }}$ FY 2019 Cost Delta: 4.047 million
${ }^{(c)}$ FY 2020 Cost Delta: 4.118 million
${ }^{(d)}$ FY 2021 Cost Delta: 4.192 million
${ }^{(e)}$ FY Total Cost Delta: 37.646 million

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833030 / Battle Control System - Fixed |  |  |  |  |  |  |  | Aggregated Modification Items Title: BCSMU |  |  |  |  |
|  |  |  |  | ior Years |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{array}{\|l} \text { MDAP/ } \\ \text { MAIS } \\ \text { code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$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 (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| BCSMU-1 / BCS MOD UPGRADES |  |  | - | . | - | - | - | 1.202 | - | - | 1.582 | - | . | 3.279 | - | . | - | - |  | 3.279 |
| Total |  |  | - | - | 0.000 | - | - | 1.202 | - | - | 1.582 | - | . | 3.279 |  |  | - | - |  | 3.279 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\substack{\text { Qty }}}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) |
| BCSMU-1/BCS MOD UPGRADES |  |  | . | - | 0.500 | - | - | - |  | - | - | - |  | - | - |  | . | - |  | 6.563 |
| Total |  |  | $\cdot$ | - | 0.500 | - | - | - | - | - | - | - | - | $\cdot$ | $\cdot$ | - | - | - | - | 6.563 |

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 |
| :--- | :--- | :--- |
| BCSMU-1 / BCS MOD UPGRADES | BCS-ModernizationUpgrades | Other |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force $\quad$ Da |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: NCR IADS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833030 / Battle Control System - Fixed |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAPI MAIS Code | 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) | 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) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BCS M/S Recurring | A |  | - | - | 10.026 | - |  | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| BCS M/S NonRecurring | A |  | - | - | 0.877 | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NCR-IADS NonRecurring | A |  | - | - | 1.993 | - |  | - 1.502 | - | - | 0.100 | - | - | 2.398 | - | - | - | - | - | 2.398 |
| PMA | A |  | - | - | 1.513 | - |  | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategoriz |  |  | - | - | 14.409 | - |  | - 1.502 | - | - | 0.100 | - | - | 2.398 | - | - | - | - | - | 2.398 |
| Total |  |  | $\cdot$ | - | 14.409 | - |  | - 1.502 | - | - | 0.100 | - | - | 2.398 | - | - | - | - | - | 2.398 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> Battle Control System program has no Air National Guard (ANG) and the Air force Reserve (AFR) Component Splits. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 50.033 | 22.710 | 1.163 | - | 1.163 | $14.413{ }^{\text {(a) }}$ | $12.134{ }^{\text {(b) }}$ | $2.872^{(c)}$ | $2.922^{\text {(d) }}$ | - | $106.247^{(\mathrm{e})}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 50.033 | 22.710 | 1.163 | - | 1.163 | 14.413 | 12.134 | 2.872 | 2.922 | - | 106.247 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 50.033 | 22.710 | 1.163 | - | 1.163 | 14.413 | 12.134 | 2.872 | 2.922 | - | 106.247 |


| (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 0207412F CONTROL AND REPORTING CENTER (CRC)
The Control and Reporting Center (CRC) program element provides for integration of new capabilities, upgrades, and modifications. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. The CRC is a mobile, ground-based theater air control system (TACS) surveillance and battle management command and control (BMC2) element. It consists of facilities, equipment, and people. It is a customizable, modular, transportable, and persistent weapon system employed at the tactical level to support air and surface operations. These efforts include, but are not limited to, the modification of the AN/ TYQ-23A(V) 1 Operations Module (OM), the AN/TRC-213/214 Remote Radio Secure Voice System (RRSVS) and the Joint Tactical Information Distribution System (JTIDS) Module (JM) Link 16 Upgrade.

AN/TYQ-23A(V)1 OM is a low density/high demand (LD/HD), rapidly deployable, ground-based C2 asset. This automated, computer-based information system provides operators the real-time battlespace picture necessary to plan, direct, and control tactical air operations and airspace management tasks. In order to meet warfighter requirements, incremental updates are required. For example, these improvements will add Secret Internet Protocol Router Network (SIPRnet), Mode 5 Integration, improved data links, Multiple Source Correlator Tracker upgrades, limited battle management for contested environs, and cyber security upgrades, Cross Domain Solution (CDS). Modifications will also be required to integrate it with the Three Dimensional Expeditionary Long Range Radar (3DELRR). AN/TRC-213/214 RRSVS is a voice radio and OM-interface unit. The RRSVS allows real-time, secure voice communications between aircraft and battle management C2 operators in the CRC. Everything over Internet Protocol (EoIP) which is used for external communications, Mobile User Objective System (MUOS), and Integrated Waveform will also be integrated into a future RRSVS upgrade. JM Link 16 Upgrade will provide for crypto modernization and will meet FAA mandated frequency re-mapping requirements and stand up of organic support for both software and hardware.

In 4th quarter of FY 2016 the entire program including SPM responsibilities transitions to HBZ at Hill AFB, UT.
Funding for this exhibit contained in PE 0207412F
The FY 2017 funding request was reduced by $\$ 27.177$ million to account for the availability of prior year execution balances

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 5 | - | - | - | - | - |  |  |  |

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 Improvements |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A ${ }^{\text {A }}$ P |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0207412F |  |  |  |
| Line Item MDAP/MAIS | de: N/A $\quad$ Item | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{aligned} & \text { FY } 2017 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
|  | Total Obligation Authority | 42.453 | 8.799 | 0.813 | - | 0.813 | - | - | - | F |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 7.580 | 13.911 | 0.350 | - | 0.350 | - | - | - |  |
| AFR | Quantity | - | - | - | - | - | - | - | - |  |
|  | Total Obligation Authority | - | - | - | - | - | - | - | - | - |
| Total: Secondary Distribution | Quantity | 50.033 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority |  | 22.710 | 1.163 | - | 1.163 | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \\ & \hline \end{aligned}$ | 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 | Control and Reporting Center (CRC) |  |  |  | - 10.000 | - /14.803 | - 14.239 | - 10.313 | - 1 | - 10.313 |
| P-40a | Control and Reporting Center (CRC) |  |  |  | - 10.000 | - 135.230 | - / 18.471 | - 10.850 | - 1 | - 10.850 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 10.000 | - 150.033 | - 122.710 | - 11.163 | - | - 11.163 |
| Exhibits Schedule |  |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \\ & \hline \end{aligned}$ | 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 | Control and Reporting Center (CRC) |  |  |  | - 1 | - 1 | - 1 | 1 | - 1 | - 1 - |
| P-40a | Control and Reporting Center (CRC) |  |  |  | - 1 | - 1 - | 1 | 1 | - 1 | - 154.551 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - $/ 14.413$ | - /12.134 | - 12.872 | - 12.922 | - 1 - | - / 106.247 |

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

## Justification:

PE 0207412F CONTROL AND REPORTING CENTER (CRC)
FY17 funding supports:

 TYQ-23A(V)1) will have the ability to assign, monitor, and/or simultaneously transmit on multiple remote secure radios. Also includes upgrades to cyber security (CDS).
 (DMS) and Program Management Administration (PMA) activities in support of CRC.
 follows:
${ }^{(a)}$ FY 2018 Cost Delta: 14.413 million
(b) FY 2019 Cost Delta: 12.134 million
${ }^{(c)}$ FY 2020 Cost Delta: 2.872 million
${ }^{(d)}$ FY 2021 Cost Delta: 2.922 million
${ }^{(e)}$ FY Total Cost Delta: 51.696 million

## UNCLASSIFIED



## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833040 / Theater Air Control Sys Improvements |  |  |  |  |  |  |  | Aggregated Modification Items Title: Control and Reporting Center (CRC) |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{(\text { Each })}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| TACSI / THEATER AIR CONTROL SYSTEM IMPROVEMENT MOD |  |  | - | - | - | - | - | 35.230 | - | - | 18.471 | - | - | 0.850 | - | - | - | - | - | 0.850 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 27.650 |  | - | 4.560 |  | - | 0.500 |  | - | - |  | - | 0.500 |
| AFNG |  |  |  | - | - |  | - | 7.580 |  |  | 13.911 |  |  | 0.350 |  |  | - |  | - | 0.350 |
| Total |  |  | - |  | 0.000 | - | - | 35.230 | - |  | 18.471 | - | - | 0.850 | - | - | - | - | - | 0.850 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{array}{\|c} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{array}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | $\begin{array}{\|c} \hline \text { Unit Cost } \\ (\$ M) \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| TACSI1 / THEATER AIR CONTROL SYSTEM IMPROVEMENT MOD |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 54.551 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 54.551 |

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 |
| :--- | :--- | :--- | :--- |
| TACSI1 / THEATER AIR CONTROL <br> SYSTEM IMPROVEMENT MOD | TACSI1 | Other |

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2017$ <br> Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 16.309 | 21.511 | 21.667 | - | 21.667 | $23.725^{(a)}$ | $20.283{ }^{\text {(b) }}$ | $21.737^{(c)}$ | $22.127^{(d)}$ | - | $147.359{ }^{\text {(e) }}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 16.309 | 21.511 | 21.667 | - | 21.667 | 23.725 | 20.283 | 21.737 | 22.127 | - | 147.359 |
| Plus CY Advance Procurement \$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 16.309 | 21.511 | 21.667 | - | 21.667 | 23.725 | 20.283 | 21.737 | 22.127 | - | 147.359 |


| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Initial Spares (\$ in Millions) | - | - | 0.100 | 0.100 | - | 0.100 | 0.100 | 0.100 | 0.102 | 0.102 | - | 0.604 |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

PE 0305111F WEATHER SERVICE
The Weather Observation Forecast procurement line acquires meteorological equipment and ground-based space environment sensing systems supporting the global missions of the Air Force (AF), Army, Special Operations Forces (SOF), combatant commands, and other government agencies. Additionally, these funds procure information system equipment for processing, storing, and disseminating weather information for analysis, forecasting, and mission integration at the strategic, operational, and tactical levels. Fixed and transportable equipment provides observing and forecasting capabilities for home station and deployed locations in support of worldwide Air and Space Expeditionary Forces and Army forces. Weather system technological upgrades provide critical support to modern air and space combat operations. These systems enhance the effectiveness and survivability of AF weapon systems and precision munitions by accurately predicting environmental impacts to optimize mission execution and planning, targeting, weaponeering, and battle damage assessment, as well as space systems operations and effectiveness. Program Management Administration costs include Federally Funded Research and Development Centers and Advisory and Assistance Services.

AF Weather Weapon System (AFWWS) 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. This alignment ensures an integrated and systems-oriented approach to program management decisions. Development funding for Weather Observation/Forecast is in Program Element (PE) 0305111F, Weather Service.

1. Weather Data Collection: Provides automated atmospheric (a.k.a. terrestrial) and 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, and resource protection. Items A-C (below) were formerly consolidated as "Observing System 21st Century (OS-21)."
A. AN/FMQ-23: Fixed automated weather observing system that collects weather elements and formulates aviation surface weather reports.
B. Next Generation lonosonde (NEXION): Commercial off-the-shelf (COTS) vertical incidence radar that obtains measurements of the ionosphere from directly overhead in the medium and high frequency radio bands.

## Appropriation / Budget Activity / Budget Sub Activity:

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

##  <br> \section*{Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A}

2. Weather Data Analysis and Dissemination: Assimilates worldwide sources of atmospheric and space weather data, produces decision-quality information for warfighters, and disseminates those products to intermediate and end users via a net-centric interface ensuring data integrity and continuity of service. Weather data formats and transmission protocols support DoD's Data Services Environment and Meteorological and Oceanographic Community of Interest objectives for integration into warfighter command and control, mission planning, and modeling and simulation systems. Improved analysis of real-time weather information supports DoD's role in transformation of the National Airspace System through the Next Generation Air Transportation System and enhances Air Force energy security plans.
A. Weather Data Analysis (WDA)--Provides atmospheric, space, and climatological data analysis capabilities within the AF Weather production center to generate products required by AF and Army operational units worldwide. Additionally, WDA provides data storage and network infrastructure supporting production, development, and testing activities and transport of data among multiple nodes and classification levels.
3. Weather Forecasting: Provides numerical weather prediction, cloud, space environment, and atmospheric constituent (e.g., aerosols) forecast models and other environmental forecast products for worldwide AF, Army, SOF, space, and national intelligence community operational support. Uses high-performance computer servers and high-capacity storage for atmospheric and space weather modeling and worldwide environmental forecast products within DoD Data Center 14866.
A. Numerical Weather Modeling (NWM)--Provides atmospheric and space weather modeling and worldwide environmental forecast products supporting military and intelligence operations worldwide.
4. Product Tailoring/Warfighter Applications:

Provides timely, local and regional target-scale weather information to operational commanders within a given Area of Responsibility and at tactical levels provides front-line weather information to warfighters in support of combat operations. Supports the 'train as you fight' concept by assuring fixed and deployable systems have a similar performance parameters and user interfaces.
A. Joint Environmental Toolkit (JET)--Provides a standard AF Weather forecaster toolkit to ingest weather data and deliver timely, tailorable, precise weather impacts to the warfighter.

Funding for this exhibit is contained in PE 0305111F
Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
In accordance with Section 1815 of the National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Force for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 3 | 4 | 4 | - | 4 | 4 | 4 | 4 | 4 |
|  | Total Obligation Authority | 16.309 | 20.425 | 20.295 | - | 20.295 | 23.725 | 20.283 | 21.737 | 22.127 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 1.086 | 1.372 | - | 1.372 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | - | - | - |
| Total: Secondary Distribution | Quantity | 3 | 4 | 4 | - | 4 | 4 | 4 | 4 | 4 |
|  | Total Obligation Authority | 16.309 | 21.511 | 21.667 | - | 21.667 | 23.725 | 20.283 | 21.737 | 22.127 |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

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

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

## Justification:

PE 0305111F WEATHER SERVICE

1. Weather Data Collection:
A. AN/FMQ-23: 6 fixed units are being acquired in FY17.
B. Next Generation lonosonde (NEXION): 2 NEXION systems will be acquired in FY17
2. Weather Data Analysis and Dissemination:
A. WDA: FY17 funding will procure computer hardware and associated integration software within DoD Data Centers 14866 and 17036 in order to complete WDA Inc 4 Build C and begin Inc 4 Build D. Efforts will expand the WDA database, begin a single services delivery baseline, provide a net-centric delivery of weather data to weather, command and control, and other forces, provide a Cross Domain Solution data filter refresh and provides a robust infrastructure to enable exploitation of environmental data records from DoD and leveraged satellite sources.
3. Weather Forecasting:
A. NWM: FY17 funding will procure computer servers, processors, and high-capacity storage to expand Product Suite 10 to support advanced scientific numerical weather modeling, and improve worldwide forecast capability.


Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 3Date: February 2016
P-1 Line Item Number / Title: 833070 / Weather Observation Forecast

## Item Number / Title [DODIC]:

- / FMQ-23 / JET

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


| Hardware - Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FMQ-23 | - | - | - | 0.191 | 5 | 0.957 | 0.250 | 6 | 1.500 | 0.250 | 4 | 1.000 | - | - | - | 0.250 | 4 | 1.000 |
| JET | - | - | - | - | - | 3.652 | - | - | 1.547 | - | - | 0.075 | - | - | - | - | - | 0.075 |
| Subtotal: Recurring Cost | - | - | - | - | - | 4.609 | - | - | 3.047 | - | - | 1.075 | - | - | - | - | - | 1.075 |
| Subtotal: Hardware Hardware End Item Cost | - | - | - | - | - | 4.609 | - | - | 3.047 | - | - | 1.075 | - | - | - | - | - | 1.075 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TESTING FMQ-23 | - | - | - | - | - | 0.004 | - | - | 0.054 | - | - | 0.055 | - | - | - | - | - | 0.055 |
| INTERIM CONTRACTOR SUPPORT LABOR FMQ-23 | - | - | - | - | - | 0.054 | - | - | 0.081 | - | - | 0.064 | - | - | - | - | - | 0.064 |
| PROGRAM MANAGEMENT ADMIIISTRATION CONTRACTOR SERVICES FMQ-23 | - | - | - | - | - | 0.873 | - | - | 0.546 | - | - | 0.760 | - | - | - | - | - | 0.760 |
| PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES JET | - | - | - | - | - | 0.325 | - | - | 0.904 | - | - | 0.845 | - | - | - | - | - | 0.845 |
| PROGRAM MANAGEMENT ADMIIISTRATION | - | - | - | - | - | 0.040 | - | - | 0.056 | - | - | 0.058 | - | - | - | - | - | 0.058 |

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 3ID Code (A=Service Ready, B=Not Service Ready) : A
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (E a c h) \end{gathered}$ | 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) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Eac) } \end{gathered}$ | Total Cost <br> (\$ M) |
| OTHER GOVERNMENT SERVICES JET |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DIRECT MISSION SUPPORT CONTRACTOR SERVICES FMQ-23 | - | - | - | - | - | 0.210 | - | - | 0.250 | - | - | 0.802 | - | - | - | - | - | 0.802 |
| DIRECT MISSION SUPPORT CONTRACTOR SERVICES JET | - | - | - | - | - | 0.081 | - | - | 0.104 | - | - | 0.107 | - | - | - | - | - | 0.107 |
| PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENT SERVICES FMQ-23 | - | - | - | - | - | 0.025 | - | - | 0.061 | - | - | 0.062 | - | - | - | - | - | 0.062 |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 1.612 | - | - | 2.056 | - | - | 2.753 | - | - | - | - | - | 2.753 |
| Gross/Weapon System Cost | - | - | - | - | - | 6.221 | - | - | 5.103 | - | - | 3.828 | - | - | - | - | - | 3.828 |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |

Hardware - Hardware End Item Cost


Hardware End Item Cost
Support - Support End Item Cost

| TESTING FMQ-23 |
| :--- |
| INTERIM CONTRACTOR |

INTERIM CONTRAC
SUPPORT LABOR
FMQ-23
PROGRAM
MANAGEMENT
ADMINISTRATIO
CONTRACTOR
SERVICES FMQ-23
PROGRAM
MANAGEMENT

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: NEXION/MOK/UAFO |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833070 / Weather Observation Forecast |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | $\begin{aligned} & \text { Unit Cost } \\ & \quad(\$ M) \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ |  | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| Hardware - Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NEXION | A |  | - | - | - | 0.275 |  | 3 | 0.825 | 0.250 | 2 | 0.500 | 0.250 | 2 | 0.500 | - | - | - | 0.250 | 2 | 0.500 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 3 | 0.825 |  | 2 | 0.500 |  | 2 | 0.500 |  | - | - |  | 2 | 0.500 |
| Mobile Observing Kit (formerly REOS) | A |  | - | - | 0.000 | - | - |  | - | - | - | - | - | - | - | - |  | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Upper Air Follow On | A |  | - | - | 0.000 | - | - |  | - | - | - | - | - | - | - | - |  | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Hardware - Har Item Cost | dware | e End | - | - | - | - | - |  | 0.825 | - | - | 0.500 | - | - | 0.500 | - |  | - | - | - | 0.500 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INSTALLATION NEXION | A |  | - | - | - | - | - |  | 1.705 | 1.050 | 2 | 2.100 | 0.962 | 2 | 1.923 | - | - | - | 0.962 | 2 | 1.923 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | 1.705 |  | 2 | 2.100 |  | 2 | 1.923 |  | - | - |  | 2 | 1.923 |
| PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES NEXION | A |  | - | - | - | - | - |  | 0.425 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | 0.425 |  | - | - |  | - | - |  | - | - |  | - | - |
| PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENTS SERVICES NEXION | A |  | - | - | - | - | - |  | 0.045 | - | - | 0.400 | - | - | 0.400 | - | - | - | - | - | 0.400 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | 0.045 |  | - | 0.400 |  | - | 0.400 |  | - | - |  | - | 0.400 |
| Subtotal: Support - Support End Item Cost |  |  | - | - | - | - | - |  | 2.175 | - | - | 2.500 | - | - | 2.323 | - | - | - | - | - | 2.323 |
| Total |  |  | - | - | - | - | - |  | 3.000 | - | - | 3.000 | - | - | 2.823 | - | - | - | - | - | 2.823 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | $\begin{array}{\|c} \text { Unit Cost } \\ (\$ M) \\ \hline \end{array}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Hardware - Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NEXION | A |  | - | - | - | - | - |  | - | - | - | - | - | $\bullet$ | - | - | - | - | - | - | - |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: NEXION/MOK/UAFO |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833070 / Weather Observation Forecast |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \\ & \hline \end{aligned}$ | MDAP/ <br> MAIS <br> Code | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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 (\$ 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) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | 2 | 0.500 |  |  | 20.500 |  | 2 | 0.500 |  | 2 | 0.500 |  | - | - |  | - | - |
| Mobile Observing Kit (formerly REOS) | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.690 |  | - | 0.695 |  | - | 0.702 |  | - | - |  | - | - |
| Upper Air Follow On | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 0.814 |  | - | 0.822 |  | - | - |  | - | - |
| Subtotal: Hardware - Hardware End Item Cost |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INSTALLATION NEXION | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | 2 | 2.981 |  |  | $2{ }^{2} \quad 3.244$ |  | 2 | 3.310 |  | 2 | 2.521 |  | - | - |  | - | - |
| PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES NEXION | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| PROGRAM <br> MANAGEMENT ADMINISTRATION OTHER GOVERNMENTS SERVICES NEXION | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 0.400 |  | - | 0.400 |  | - | 0.400 |  | - | 0.400 |  | - | - |  | - | $-$ |
| Subtotal: Support - Support End Item Cost |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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

## UNCLASSIFIED



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 |
| :---: | :--- | :--- |
| WOF2 / NWM | NWM | Capability Improvement |

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 <br> Modification Number / Title: <br> 1 / WDA |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity 3080F / 03 / 3 | Budget | ub Activity | P-1 Line Item Number / Title: <br> 833070 / Weather Observation Forecast |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Millions) | - | 5.786 | 8.825 | 10.788 | - | 10.788 | 13.790 | 11.215 | 11.708 | 12.829 | - | 74.941 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 5.786 | 8.825 | 10.788 | - | 10.788 | 13.790 | 11.215 | 11.708 | 12.829 | - | 74.941 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 5.786 | 8.825 | 10.788 | - | 10.788 | 13.790 | 11.215 | 11.708 | 12.829 | - | 74.941 |
| (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:

Improves capability by updating the Air Force Weather Consolidated Network, Cross Domain, Solution, and Enterprise Storage Solution systems required for large scale data processing, product generation, and presentation system supporting Open Geospatial Consortium (OGC) services architecture and providing capability to ingest, process, store, access, and disseminate meteorological oceanographic data.

Milestone/Development Status

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 5.786 | 8.825 | 10.788 | - | 10.788 | 13.790 | 11.215 | 11.708 | 12.829 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 5.786 | 8.825 | 10.788 | - | 10.788 | 13.790 | 11.215 | 11.708 | 12.829 |

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  | P-1 Line Item Number / Title: <br> 833070 / Weather Observation Forecast |  |  |  |  |  | Modification Number / Title: 1 / WDA |  |  |  |
| Models of Systems Affected: WDA | Modification Type: Capability Improvement $\quad$ Related RDT\& |  |  |  |  |  |  |  | \&E PEs: 03 | 305111F |  |  |
|  | Prior Years | FY 2015 | FY 2016 | $\begin{aligned} & \text { FY } 2017 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\text { FY } 2017$ <br> Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Weather Data Analysis |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Weather Data Analysis:EQUIPMENT Group B (Active) | - 1 - | 1/5.786 | 1/8.825 | 1/10.788 | -1- | 1/10.788 | 1/13.790 | 1/11.215 | 1/11.708 | 1/12.829 | - 1- | 7174.941 |
| Subtotal: Recurring | 1. | - 15.786 | - 18.825 | - /10.788 | - $1-$ | - /10.788 | - /13.790 | - /11.215 | - /11.708 | - /12.829 | $1-$ | - 174.941 |
| Subtotal: Weather Data Analysis | - / - | - 15.786 | - 18.825 | - /10.788 | -1- | - /10.788 | - /13.790 | - /11.215 | - /11.708 | - /12.829 | 1 | - 174.941 |
| Subtotal: Procurement, All Modification Items | - / - | - 15.786 | - 18.825 | - /10.788 | -1- | - /10.788 | - /13.790 | - /11.215 | - /11.708 | - /12.829 | - 1 - | - 174.941 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - 1. | - 1. | . 1. | - 1. | - 1. | . 1. | - 1. | - 1. | - 1. | - 1. | - 1 - | - 1. |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | 5.786 | 8.825 | 10.788 | - | 10.788 | 13.790 | 11.215 | 11.708 | 12.829 | - | 74.941 |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  | P-1 Line Item Number / Title: <br> 833070 / Weather Observation Forecast |  |  | Modification Number / Title: 1 / WDA |  |
| Modification Item 1 of 1: Weather Data Analysis |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Raytheon Intelligence and Information Systems |  |  |  | Manufacturer Location: Omaha, NE |  |  |  |
| Administrative Leadtime (in Months): 4 |  |  |  | Production Leadtime (in Months): 5 |  |  |  |
| Dates | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Contract Dates | Feb 2015 | May 2016 | Apr 2017 | Jun 2018 | Apr 2019 | Apr 2020 | Nov 2020 |
| Delivery Dates | Jul 2015 | Oct 2016 | Sep 2017 | Nov 2018 | Sep 2019 | Sep 2020 | Apr 2021 |

Installation Information
Method of Implementation (Organic): Org/Intermediate
Installation Quantity: 7

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.649 | 146.759 | 286.980 | 39.803 | - | 39.803 | 54.268 | 25.843 | 14.830 | 15.095 | - | 584.227 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.649 | 146.759 | 286.980 | 39.803 | - | 39.803 | 54.268 | 25.843 | 14.830 | 15.095 | - | 584.227 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.649 | 146.759 | 286.980 | 39.803 | - | 39.803 | 54.268 | 25.843 | 14.830 | 15.095 | - | 584.227 |
| (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:

B-2 Squadrons PE 0101127F - P-40A
PE 0101127F B-2 SQUADRONS
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).

Strat War Planning System - USSTRATCOM PE 0101313F - P-40A
PE 0101313F - STRATEGIC WAR PLANNING SYSTEM - USSTRATCOM:
Funding for this program has moved to WSC 833560
Worldwide Joint Strategic Communications PE 0101316F - P-40A
\<span style='font-family: Consolas,"Lucida Console","Courier New",Courier; font-weight: 500; white-space: pre-wrap;'\>PE 0101316F EMERGENCY ACTION MESSAGE (EAM) PROCESSING EQUIPMENT

## 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 $\quad$ Item MDAP/MAIS Code(s): N/A









 contained in PE 0101316F.\</span\>

Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities) PE 0208059F - P-40A
PE 0208059F CYBER COMMAND ACTIVITIES:


 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.

Command, Control, Communication, and Computers (C4) - STRATCOM PE 0303255F - P-40A
PE 0303255F - SERVICE SUPPORT TO USSTRATCOM - C4:

## 5. SERVICE SUPPORT TO USSTRATCOM - C4




 the mobile platform. They also support the technical refresh of all NPES fixed and mobile sites and the migration of them into a Net-Centric environment.


 through a grid of supporting services. This effort was previously referred to as "C2 Modernization" and is not a new start.

 crises.

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

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force | Date: February 2016 |
| :--- | :--- |


| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | 833140 / Strategic Command And Control |
| Equip / BSA 3: Electronics Programs |  |

## Equip / BSA 3: Electronics Programs

| ID Code (A=Service Ready, $\mathrm{B}=$ 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 | Item MDAP/MAIS Code(s): N/A |  |
| e. 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. |  |  |
| f. USSTRATCOM REPLACEMENT FACILITY FIT-OUT: USSTRATCOM is tasked with the vital roles of strategic deterrence, space operations, and cyberspace operations in our nation's defense. Nuclear, space, and network command and control operations require secure and survivable infrastructure. The facility includes features and capabilities such as secure High-Altitude Electromagnetic Pulse (HEMP) |  |  |
| Funding for this exhibit contained in PE 0303255F. |  |  |
| Note: The FY17 funding request for Service | pport to USSTRATCOM - C4, PE 0303255F, was reduced \$40 mil | bility of prior year execution balances |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

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

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

## Justification:

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

 and tape drives, software and installation and support services.

Strat War Planning System - USSTRATCOM PE 0101313F - P-40A
PE 0101313F STRATEGIC WAR PLANNING SYSTEM - USSTRATCOM
Funding for this program has moved to WSC 833560
Worldwide Joint Strategic Communications PE 0101316F - P-40A
PE 0101316F EMERGENCY ACTION MESSAGE (EAM) PROCESSING EQUIPMENT
FY17 funds will procure replacement system components for SACCS. This includes modified COTS-based electronic equipment such as hard drives, storage devices, servers, and other electronic components that are representative of the most critical components required to allow continued operations. The specific SACCS components procured (e.g. SACCS Desktop Terminal System (SDT), SACCS Portable Terminal (SPT), and Keyboard Send Receive (KSR) may vary depending upon available technology at the time of procurement.

Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities) PE 0208059F - P-40A
PE 0208059F CYBER COMMAND ACTIVITIES:
FY17 funding will be used to buy COTS IT equipment in support of Base communications infrastructure (e.g., servers, routers, Local Area Networks (LANs), End Building Node (EBN) hardware) supports ongoing USCYBERCOM activities.

Base communications infrastructure (e.g., servers, routers, Local Area Networks (LANs), Audio Visual / Teleconferencing equipment etc.)

## Appropriation / Budget Activity / Budget Sub Activity:

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


## Line Item MDAP/MAIS Code: N/A $\quad$ Item MDAP/MAIS Code(s): N/A

Command, Control, Communication, and Computers (C4) - STRATCOM PE 0303255F - P-40A
PE 0303255F SERVICE SUPPORT TO STRATCOM, COMMAND, CONTROL, COMMUNICATION AND COMPUTER (C4):
a. NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES): FY17 funding continues procurement of hardware for the Fact-of-Life (FoL) update of the NPES operational environment to support the DoD migration into the X86 environment. FY17 satisfies communication suites life-cycle replacement at detached operational sites. Hardware procurement will also support mobile platforms as we introduce X86 blades to the platform server configuration.
b. USSTRATCOM C2 SYSTEMS LIFECYCLE HARDWARE MANAGEMENT: FY 17 continues the phased update of the full C2 LAN Back Up and Recovery System, update of the Mass Storage appliances on the C2 LAN and the Top Secret LAN, life-cycle replacement of C2 application and database servers, and other ongoing activities.
c. ANALYSIS AND TARGETING - JOINT WARFARE ANALYSIS CENTER (JWAC): FY17 funding will continue life cycle replacement of critical analytical software and hardware for strategic solutions
d. FORCE SURVIVABILITY, ANALYSIS, AND MANAGEMENT (FSAM). FY17 funding continues hardware/software updates for FSAM as well as the decision making tools of Force Status Readiness and Force Protection applications that feed FSAM.
e. 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.
f. USSTRATCOM REPLACEMENT FACILITY FIT-OUT: USSTRATCOM Replacement Facility: FY17 will focus on major areas: 1) Continue the procurement of Network/Communications, Data Center Server/ Client/storage, Audio Visual/Video Tele Conferencing hardware, Command and Control mission systems hardware, software, and services to implement the new Command and Control Facility infrastructure; 2) Completion of the Technical Control Facility; and, 3) Complete the procurement of horizontal premise cabling and zone distribution boxes (Multimode), wireless infrastructure, and end user VOIP cabling for the communications network within the facility.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: B-2 Squadrons |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 833140 / Strategic Command And Control |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B-2 Weapon System Support Center (WSSC) Hardware | A |  | - | - | 0.649 | - | - | 0.495 | - | - | 0.493 | - | - | 0.496 | - | - | - | - | - | 0.496 |
| Subtotal: Uncategorized |  |  | - | - | 0.649 | - | - | 0.495 | - | - | 0.493 | - | - | 0.496 | - | - | - | - | - | 0.496 |
| Total |  |  | - | - | 0.649 | - | - | 0.495 | - | - | 0.493 | - | - | 0.496 | - | - | - | - | - | 0.496 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Worldwide Joint Strategic Communications |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 833140 / Strategic Command And Control |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | rior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\text { Qty }_{(F a c h)}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & (\text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Defense Injection Reception Emergenc Action Message Control Terminal (DIRECT) System | A |  | - | - | - | 5.800 |  | 15.800 | - | - | - | - | - | - | - | - | - | - | - | - |
| Strategic Automated Command Control Systems (SACCS) |  |  | - |  | 0.000 | - |  | - - | 0.004 | 62 | 0.248 | 0.004 | 62 | 0.246 | - | - | - | 0.004 | 62 | 0.246 |
| Subtotal: Uncategorized |  |  | - | - | 0.000 | - |  | 5.800 | - | - | 0.248 | - | $\cdot$ | 0.246 | - | - | - | - | - | 0.246 |
| Total |  |  | - | - | 0.000 | - |  | 5.800 | - | - | 0.248 | - | - | 0.246 | - | - | - | - | - | 0.246 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> $\$ 5.8 \mathrm{M}$ FY15 funding was added in the omnibus reprogramming. This funding was used to procure one DIRECT system in support of USAFE. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> Service Support to Other Core Missions STRATCOM (CYBERCOM Activities) |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| COTS IT Equipment for cyber SSA | A |  | - | - | - | - | - | 0.975 | - | - | 7.948 | 7.872 | 1 | 7.872 | - | - | - | 7.872 | 1 | 7.872 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.975 | - | - | 7.948 | - | - | 7.872 | - | - | - | - | - | 7.872 |
| Total |  |  | - | - | - | - | - | 0.975 | - | - | 7.948 | - | - | 7.872 | - | - | - | - | - | 7.872 |

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

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |  |  |
|  | ID | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NPES - COMM SYSTEM (SMART NEXT Turn-Key System) | A |  | - | - | - | - | - | - | - | - | - | 0.300 | 7 | 2.100 | - | - | - | 0.300 | 7 | 2.100 |
| NPES RUGGEDIZED EQUIPMENT, E-4B, E-6B | A |  | - | - | - | 0.550 | 2 | 1.100 | 0.400 | 5 | 2.000 | - | - | - | - | - | - | - | - | - |
| NPES - Operational Site Refresh | A |  | - | - | - | - | - | - | - | - | - | 0.292 | 1 | 0.292 | - | - | - | 0.292 | 1 | 0.292 |
| C2 LAN Infrastructure (C2 Modernization) | A |  | - | - | - | - | - | - | - | - | - | 3.677 | 1 | 3.677 | - | - | - | 3.677 | 1 | 3.677 |
| Mass Storage Devices [Secret, TS], (C2 Modernization) | A |  | - | - | - | - | - | - | - | - | - | 3.714 | 1 | 3.714 | - | - | - | 3.714 | 1 | 3.714 |
| Net-Centricity Migration Expansion (C2 Modernization) | A |  | - | - | - | 0.169 | 4 | 0.677 | 0.293 | 1 | 0.293 | - | - | - | - | - | - | - | - | - |
| SUN/Windows servers, storage, clients etc (C2 Modernization) | A |  | - | - | - | 0.310 | 2 | 0.620 | 0.500 | 7 | 3.500 | - | - | - | - | - | - | - | - | - |
| Global Operations Center (GOC) Hardware, (C2 Modernization) | A |  | - | - | - | 3.600 | 1 | 3.600 | 2.746 | 1 | 2.746 | - | - | - | - | - | - | - | - | - |
| Miscellaneous Infrastructure and LAN Hardware, [Classified], (C2 Modernization) | A |  | - | - | - | 4.450 | 1 | 4.450 | 2.832 | 1 | 2.832 | - | - | - | - | - | - | - | - | - |
| Subordinate Organizations System Hardware, [Classified], (C2 Modernization) | A |  | - | - | - | 2.621 | 1 | 2.621 | 2.550 | 1 | 2.550 | - | - | - | - | - | - | - | - | - |
| Analysis and Targeting Systems, (C2 Modernization) | A |  | - | - | - | - | - | - | 0.085 | 1 | 0.085 | 0.086 | 1 | 0.086 | - | - | - | 0.086 | 1 | 0.086 |
| FSAM - Modernization Procurement | A |  | - | - | - | 1.284 | 1 | 1.284 | 1.337 | 1 | 1.337 | 2.136 | 1 | 2.136 | - | - | - | 2.136 | 1 | 2.136 |
| Global Distributed Command and Control (GDC2) | A |  | - | - | - | - | - | - | - | - | - | 1.746 | 1 | 1.746 | - | - | - | 1.746 | 1 | 1.746 |
| Node (s) | A |  | - | - | - | 1.659 | 1 | 1.659 | 14.167 | 1 | 14.167 | - | - | - | - | - | - | - | - | $\bullet$ |

UNCLASSIFIED
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## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 \text { / } 3$ |  |  |  |  |  |  |  | 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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| New Bldg Fit Out - <br> Fiber Ring | A |  | - | - | - | 2.794 | 1 | $1 \quad 2.794$ | - | - | - | - | - | - | - | - | - | - | - | - |
| New Bldg Fit Out - Transition Infrastructure | A |  | - | - | - | 6.576 | 1 | $1 \quad 6.576$ | 1.797 | 1 | 1.797 | - | - | - | - | - | - | - | - | - |
| New Bldg Fit Out Premise Wiring | A |  | - | - | - | 5.000 | 1 | 15.000 | 35.363 | 1 | 35.363 | 2.289 | 1 | 2.289 | - | - | - | 2.289 | 1 | 2.289 |
| New Bldg Fit Out Electronic Security Systems | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| New Bldg Fit Out - Network / Communications systems | A |  | - | - | - | 17.648 | 1 | 117.648 | 63.595 | 1 | 63.595 | 4.211 | 1 | 4.211 | - | - | - | 4.211 | 1 | 4.211 |
| New Bldg Fit Out Server / Client / Data systems hardware | A |  | - | - | - | 20.330 | 1 | $1 \quad 20.330$ | 72.668 | 1 | 72.668 | 3.672 | 1 | 3.672 | - | - | - | 3.672 | 1 | 3.672 |
| New Bldg Fit Out Audio Visual / VTC systems hardware | A |  | - | - | - | 26.239 |  | $1 \quad 26.239$ | 56.211 | 1 | 56.211 | 4.898 | 1 | 4.898 | - | - | - | 4.898 | 1 | 4.898 |
| New Bldg Fit Out - Mission Systems hardware | A |  | - | - | - | 24.413 |  | $1{ }^{1} \quad 24.413$ | 10.023 | 1 | 10.023 | 1.650 | 1 | 1.650 | - | - | - | 1.650 | 1 | 1.650 |
| New Bldg Fit Out Technical Control Facility hardware / Relocation | A |  | - | - | - | 20.478 | 1 | $1 \quad 20.478$ | 9.124 | 1 | 9.124 | 0.718 | 1 | 0.718 | - | - | - | 0.718 | 1 | 0.718 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 139.489 | - | - | 278.291 | - | - | 31.189 | - | - | - | - | - | 31.189 |
| Total |  |  | - | - | - | - | - | 139.489 | - | - | 278.291 | - | - | 31.189 | - | - | - | - | - | 31.189 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force | Date: February 2016 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> 3080F / 03 / 3 | Aggregated Items Title: <br> Command, Control, Communication, and <br> Computers (C4) - STRATCOM |
| Remarks: <br> C2 Facility Fit-Out is broken down into 9 Major Categories: <br> Fiber Ring, Transition Infrastructure, Premise Wiring, Electronic Security Systems, Network / Communications Systems, Server / Client / Data Systems, Audio Visual / Video Teleconferencing Systems, Missions Systems, Technical Control <br> Facility. |  |  |
| There are thousands of parts and pieces to satisfy requirements...for example: |  |  |
| Fiber Ring: Copper Cable (miles), Fiber Optic Cable (miles) |  |  |
| Premise Wiring: Equipment racks (2000+), Fiber Optic Cable (miles), CAT-6A Cable (miles), MUTOAs (6000+), Patch Cabling (thousands) |  |  |
| Network/Communications: Crypto Gear, Storage Chassis, IA Devices, Additional Cabling, Servers, Licensing, Access Layer Switches, Network Management Software, Intrusion Prevention Systems, Proxy System, Log Reduction Systems, <br> Blade Server Enclosures, Mutili-Control Units (MCUs), VolP Instruments, Call Managers |  |  |
| Server/Client/Data Hardware: Client Machines, Printers, Devices, End-user Licensing, Additional Storage, Additional Server Blades, Cabling, Connectors |  |  |
| Audio Visual/VTC Hardware: AV/VTC Bridges, Audio/Video Switching |  |  |
| Mission Systems Hardware: Servers, Storage Devices, Client Machines, Guards, Firewalls, Antennas, Bridges, Gateways, Gatekeepers, Border Controller |  |  |
| Tech Control Facility Relocation: Circuits, Cabling, Specialized Racks, Patch Fields |  |  |

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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: 0305903F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 35.301 | 36.186 | 24.618 | - | 24.618 | 31.130 | 30.880 | 29.888 | 30.425 | - | 218.428 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 35.301 | 36.186 | 24.618 | - | 24.618 | 31.130 | 30.880 | 29.888 | 30.425 | - | 218.428 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 35.301 | 36.186 | 24.618 | - | 24.618 | 31.130 | 30.880 | 29.888 | 30.425 | - | 218.428 |
| (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 FY17 funding request was reduced by $\$ 3.806 \mathrm{M}$ to account for the availability of prior year execution balances.
 Air Defense (NORAD) missions.

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

 accomplishing directed COCOM missions. The MCCC provides C4I for Homeland Support/Homeland Defense (HLS/HLD) and U.S. Northern Command (USNORTHCOM).

PE 0305906F - NCMC - ITW/AA SYSTEM



 Commander (JFCC) space missions exercised in the Cheyenne Mountain Complex (CMC), Joint Space Program Operations Center (JSpOC), and forward operating locations.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
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:
833160 / Cheyenne Mountain Complex Equip / BSA 3: Electronics Programs

| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: 0305903 F |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years$\begin{gathered}\text { Quantity / Total Cost } \\ (\text { Each }) /(\$ M)\end{gathered}$ | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ |  | 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) |  |  | - 10.000 | - 120.751 | - 19.485 | - 10.573 | - 1 - | 10.573 |
| P-3a | 001 / Mobile Consolidated Command Center Upgrade Block 00 (Reliability \& Maintainability) |  |  | - 1 - | - 1 - | - 1 | - 17.062 | - 1 | - 17.062 |
| P-40a | NCMC - TW/AA System |  |  | - 10.000 | - / 14.550 | - / 26.701 | - 10.750 | - 1 - | - 10.750 |
| P-3a | 002 / NORAD Cheyenne Mountain Complex Block 00 (Reliability \& Maintainability) |  |  | - 1 - | - 1 - | - 1 - | - / 16.233 | 1 | - / 16.233 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1 - | 135.301 | - 136.186 | - 124.618 | - 1 - | 124.618 |
|  | Exhibits Schedule |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | COCOM Mobile Command and Control Centers (MCCCs) |  |  | - 17.188 | - 17.908 | - 18.047 | - 18.192 | 1 | - / 62.144 |
| P-3a | 001 / Mobile Consolidated Command Center Upgrade Block 00 (Reliability \& Maintainability) |  |  | - 10.583 | 1 | 1 | - 1 - | 1 | - 17.645 |
| P-40a | NCMC - TW/AA System |  |  | - 122.609 | - 122.972 | - / 21.841 | - 122.233 | 1 | - /131.656 |
| P-3a | 002 / NORAD Cheyenne Mountain Complex Block 00 (Reliability \& Maintainability) |  |  | - 10.750 | - 1 - | 1 | 1 - | 1 | - / 16.983 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 131.130 | - 130.880 | - 129.888 | - 130.425 | - 1 | - 1218.428 |

 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.

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833160 / Cheyenne Mountain Complex |  |  |  |  |  |  |  | Aggregated Modification Items Title: COCOM Mobile Command and Control Centers (MCCCs) |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 002 / Mobile Consolidated Command Center Modification |  |  | - | - | - | - | - | 20.751 | - | - | 9.485 | - | - | 0.573 | - | - | - | - |  | 0.573 |
| Total |  |  | - | - | 0.000 | - | - | 20.751 | - | - | 9.485 | - | - | 0.573 | - | - |  | - |  | 0.573 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 002 / Mobile Consolidated Command Center Modification |  |  | - - | - | 7.188 | - | - | 7.908 | - | - | 8.047 | - | - | 8.192 | - | - | - | - |  | 62.144 |
| Total |  |  | - | - | 7.188 | - | - | 7.908 | - | - | 8.047 | - | - | 8.192 | - | - | - | - | - | 62.144 |

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 |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 <br> Modification Number / Title: <br> 001 / Mobile Consolidated Command Center Upgrade Block 00 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity 3080F / 03 / 3 | Budget | ub Activit | P-1 Line Item Number / Title: <br> 833160 / Cheyenne Mountain Complex |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 7.062 | - | 7.062 | 0.583 | - | - | - | - | 7.645 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | - | 7.062 | - | 7.062 | 0.583 | - | - | - | - | 7.645 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 7.062 | - | 7.062 | 0.583 | - | - | - | - | 7.645 |
| (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:

COMBATANT COMMANDER (COCOM), MOBILE CONSOLIDATED COMMAND CENTER (MCCC): The COCOM's MCCC provides a survivable and endurable command, control, communications, computers, intelligence (C4I), reliability and maintainability while accomplishing directed COCOM missions. The MCCC provides C4I for Homeland Security Support/Homeland Defense (HLS/HLD) and USNORTHCOM missions. MCCC modification efforts include upgrading MCCC shelters and incorporating additional C4I system capabilities via Information Technology and Communication Upgrade projects; ensuring the platform's ability to rapidly deploy, re-constitute and operate. FY17 modifications, including initial spares and test facility updates, include but are not limited to: 1) Secure voice and data communication upgrade, 2) Platform data processing, 3) Mission and support shelters upgrade, 4) Life Cycle Management Plan (LCMP) requirements, 5) Filtration system upgrade, 6) SATCOM terminal and antenna integration, 7) Message injection system upgrade, 8) Cybersecurity modernization, 9) Additional Mission and Support Shelter(s). Funding for this effort is in program element 0305903F and is funded IAW full funding policy Program Management Administration (PMA): PMA costs to 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.

Milestone/Development Status
Sustainment

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  | P-1 Line Item Number / Title: 833160 / Cheyenne Mountain Complex |  |  |  |  |  | Modification Number / Title: <br> 001 / Mobile Consolidated Command Center Upgrade Block 00 |  |  |  |
| Models of Systems Affected: CheyenneMountainComplex |  | Modification Type: Reliability \& Maintainability |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
|  | Prior Years | FY 2015 | FY 2016 | $\begin{aligned} & \text { FY } 2017 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|c\|} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) } 1 \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: MCCC (2) |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| MCCC:EQUIPMENT Group B (Active) | - 1- | - 1- | - 1- | 1/5.345 | - 1- | 1/5.345 | - 1- | - 1- | - 1- | - 1- | - 1 - | 1/5.345 |
| Subtotal: Recurring | - 1- | - 1- | - 1 | - 15.345 | -1. | - 15.345 | - 1- | - 1- | - 1- | - 1 | - 1 - | - 15.345 |
| Subtotal: MCCC (2) | $1-$ | 1 | - / - | - 15.345 | - 1- | - 15.345 | 1 | - 1- | - 1- | - 1- | - 1 - | - 15.345 |
| Subtotal: Procurement, All Modification Items | - / - | 1 | - $/$ - | - 15.345 | - 1 - | - 15.345 | - / - | - 1 - | 1. | 1. | - | - 15.345 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA - Contractor Services | - 1 - | - 1 - | - 1 - | - 10.190 | 1. | - 10.190 | - 10.583 | 1. | 1 - | 1. | 1 - | - 10.773 |
| Subtotal: Support | - 1 - | - 1 - | - 1. | - 10.190 | - 1- | - 10.190 | - 10.583 | - 1 - | - 1- | - 1 - | - 1- | - 10.773 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: MCCC (2) | - 1 - | - 1 - | - 1- | 1/1.527 | - 1 - | 1/1.527 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1/1.527 |
| Subtotal: Installation | - 1 - | - | - | 1/1.527 | - 1 - | 1/1.527 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1/1.527 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | $\cdot$ | $\cdot$ | $\cdot$ | 7.062 | - | 7.062 | 0.583 | $\cdot$ | $\cdot$ | - | - | 7.645 |

## UNCLASSIFIED



UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833160 / Cheyenne Mountain Complex |  |  |  |  |  |  |  | Aggregated Modification Items Title: NCMC - TWIAA System |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ mals <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | 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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 001 / Core C2 Enterprise Network Infrastructure and Mission Equipment |  |  | - | - | - | - - | - | 14.550 | - | - | 26.701 | - | - | 0.750 | - | - | - | - |  | 0.750 |
| Total |  |  | - | - | 0.000 | - | - | 14.550 | - | - | 26.701 | - | - | 0.750 | - | - | - | - |  | 0.750 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{gathered} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | 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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) |
| 001 / Core C2 Enterprise Network Infrastructure and Mission Equipment |  |  | - | - | 22.609 | - | - | 22.972 | - | - | 21.841 | - | - | 22.233 | - | - | - | - | . | 131.656 |
| Total |  |  | - | - | 22.609 | - | - | 22.972 | - | - | 21.841 | - | - | 22.233 | - | - | - | - | - | 131.656 |

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-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 <br> Modification Number / Title: 002 / NORAD Cheyenne Mountain Complex Block 00 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  | P-1 Line Item Number / Title: 833160 / Cheyenne Mountain Complex |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 16.233 | - | 16.233 | 0.750 | - | - | - | - | 16.983 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | - | 16.233 | - | 16.233 | 0.750 | - | - | - | - | 16.983 |
| Plus CY Advance Procurement (\$ in Milioions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 16.233 | - | 16.233 | 0.750 | - | - | - | - | 16.983 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Milions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Funding procures replacement for reliability and maintainability of the information systems hardware and associated systems software for the 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. The enterprise consists of two major components: mission systems (air, missile and space) and network/infrastructure systems. Mission systems include all subsystems within the sensor-to-operator messaging string (message processing, database, communications processing systems (including Sensors and Correlation Centers), C2 services, mission operations management systems, workstations, Space Defense Operations Center (SPADOC), Space Data Server (SDS), Single Integrated Space Picture (SISP), Deconfliction (DECON), Cheyenne Mountain Complex (CMC) Message Processor (CMP), Astrodynamic Workstations and Intelligence sources). Network/infrastructure systems for ITW/AA and Space (including CAVENet) but are not limited to those sub-systems that provide the fabric for the mission systems to operate within operational and security parameters such as system operations servers, security servers, backup systems, networks and network infrastructure components, support systems software and independent test systems. Funding for these efforts are in PE0305906F and are IAW full funding policy. Program Management Administration (PMA): PMA costs to 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.

Milestone/Development Status
Sustainment

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  | P-1 Line Item Number / Title: <br> 833160 / Cheyenne Mountain Complex |  |  |  |  |  | Modification Number / Title: 002 I NORAD Cheyenne Mountain Complex Block 00 |  |  |  |
| Models of Systems Affected: NORADCheyenneMountainComplex |  | Modification Type: Reliability \& Maintainability |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
| Financial Plan | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: NORAD Cheyenne Mountain Complex |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| NORAD Cheyenne Mountain Complex:EQUIPMENT Group B (Active) | - 1- | 1 - | - 1- | 1/12.586 | - 1- | 1/12.586 | 1. | - 1- | 1. | 1 | 1 | 1/12.586 |
| Subtotal: Recurring | - 1- | - 1- | - / - | - /12.586 | -1- | - /12.586 | -1. | - 1 | - 1 - | 1 | - 1 | - /12.586 |
| Subtotal: NORAD Cheyenne Mountain Complex | 1 | 1 | - / - | - /12.586 | -1- | - /12.586 | 1 | - 1 | 1 | 1 | 1 | - /12.586 |
| Subtotal: Procurement, All Modification Items | - / - | - / - | - / - | - /12.586 | - 1. | - /12.586 | - / - | - / - | 1. | 1. | 1. | - /12.586 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA - Contractor Services | - 1 - | $1-$ | $1-$ | - 10.250 | $1-$ | - 10.250 | - 10.750 | $1-$ | $1-$ | $1-$ | $1-$ | 11.000 |
| Subtotal: Support | - / - | 1 | - $/$ - | - 10.250 | -1. | - 10.250 | - 10.750 | 1 | 1 - | - 1. | - 1. | - 11.000 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: NORAD Cheyenne Mountain Complex | - 1- | - 1- | 1 - | 1/3.397 | 1. | 1/3.397 | - 1 - | 1 - | 1. | 1 - | 1. | 1/3.397 |
| Subtotal: Installation | - 1- | - 1- | - 1- | 1/3.397 | - 1 - | 1/3.397 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1/3.397 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | - | - | 16.233 | - | 16.233 | 0.750 | - | - | - | - | 16.983 |

## UNCLASSIFIED



## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2017$ <br> Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 15.649 | 14.456 | 15.868 | - | 15.868 | 15.340 | 15.599 | 15.873 | 16.160 | - | 108.945 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 15.649 | 14.456 | 15.868 | - | 15.868 | 15.340 | 15.599 | 15.873 | 16.160 | - | 108.945 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 15.649 | 14.456 | 15.868 | - | 15.868 | 15.340 | 15.599 | 15.873 | 16.160 | - | 108.945 |
| (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.

 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

## 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 $\quad$ Item MDAP/MAIS Code(s): N/A

(that necessitates recurrent hardware changes to meet overall system requirements) and advances in COTS technology that makes available new capabilities (which may lower component costs or address component obsolescence). It is also a more effective way to address changes in the number, type, and deployment of aircraft/weapons that force changes in the number of UNIX and PC-based mission planning computers and their concept of operations.

1. MISSION PLANNING SYSTEMS (MPS) HARDWARE: This acquisition is a continuation of procurement efforts to provide MPS-related hardware for Air Force platforms. The program will provide a suite of COTS-based mission planning hardware and software systems that can be integrated with USAF Command, Control, Communications, Computers, and Intelligence (C4I) systems for the operation of USAF aircraft (e.g. F-22, B-1, F-16, F-15, RC/OC-135, E-3, E-4, E-8, RQ-4, C-130, HC-130, EC-130, HH-60, KC-135, KC-46, C-5, KC-10, C-17, U-2, B-52, B-2, MC-12, T-38) and the support of USAF training requirements. MPS allows aircrews to electronically receive tasking orders, intelligence information, target coordinates, imagery and other information. This information is then used to organize and prepare flight (including equipment and personnel airdrop) and weapons delivery planning data (e.g., maps, charts, imagery, flight logs, radar predications, and navigation databases) that is electronically transferred to aircraft and/or precision-guided weapons. MPS increases the combat effectiveness of Air Force aerial assets (including unmanned air vehicles, conventional and low-observable aircraft, and weapons) and Army guided delivery systems by supporting the use of sophisticated avionics and precision/autonomous guided munitions. It helps to increase wartime sortie rates while improving aircrew and aircraft survivability and aircrew readiness.
2. PRECISION AERIAL DELIVERY SYSTEM (PADS): PADS provides the capability for direct delivery of cargo and equipment through high altitude, precision airdrops (principally with C-17 and C-130 aircraft). Currently it consists of the Joint Precision Airdrop System (JPADS) acquisition effort. JPADS is a collaborative effort with the Army, USMC, and other agencies to provide aviators the ability to accurately airdrop payloads (including supplies/equipment and personnel) to units in the field from altitudes beyond the reach of some surface-to-air weaponry. This portion of the program procures COTS-based computing hardware, support services and aerial delivery systems to enable completion of pre and in-flight mission planning functions as well as aerial delivery proficiency training in and with operational units.

Market surveys and analysis of COTS products will be used to support procurement decisions. Funding for this exhibit is in Program Element (PE) 0208006F.

Exhibit P-40, Budget Line Item Justification: PB 2017 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: 0208006F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | - / 15.649 | - / 14.456 | - / 15.868 | - 1 - | 115.868 |
| P-40 | Total Gross/Weapon System Cost |  |  | 1 | - / 15.649 | - / 14.456 | - / 15.868 | 1 | - $/ 15.868$ |

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

## Justification:

FY17 funding will continue procurement of a variety of computers, software, and electronic equipment to support pre-, post-, and in-flight mission planning tasks for a number of Air Force platforms. Procured hardware and other items will support and enable completion of mission planning efforts using legacy planning tools (e.g. Unix-MPS and the Portable Flight Planning Software (PFPS)) as well as the Joint Mission Planning Systems (JMPS). The hardware will also accommodate planning system updates based upon new capability incorporation via individual platform Operational Flight Programs (OFPs). All items are centrally managed and distributed by the MPS System Support Facility. The following kinds of equipment and mission areas will be supported:

1. MPS HARDWARE: FY17 funding will continue procurement of COTS-based hardware, software, and support services to include (but is not limited to) desktop computers, laptops, tablet PCs, data storage devices, PDAs, monitors, software applications, warranties, and other electronic computing components. These assets provide a portable, tailorable, network-capable system that can be integrated with MPS software to provide basic mission planning capability and full interoperability with TBM systems. Components can also be networked with legacy UNIX Systems to further tailor a platform's mission planning environment. The program will procure hardware and software items, warranties, other services, and up to a $15 \%$ contingency inventory (based on the overall number of items being procured) for the following mission planning operational users:

Air Combat Command (ACC): F-15 C/D/E, F-16 Block 30/40/50, F-22, E-3, E-4, E-8,RC/OC-135, HH-60, HC-130, RQ-4, U-2, MC-12, F-35
Air Mobility Command (AMC): 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
Funding for this effort is in program element 0208006F.
2. PRECISION AERIAL DELIVERY SYSTEMS (PADS): FY17 funding will continue the procurement of Joint Precision Airdrop Systems (JPADS) hardware, software, LRU support equipment for functional checkout (i.e. Automatic Test Equipment or ATE) and other related items. Components include, but are not limited to: guided delivery vehicles (e.g. ultralight, 2K, 10K); Pressure Tolerant Disk Drives (PTDD) [including solid state and pressure sealed disk drives]; precision-guided airdrop training systems; portable data storage units, engineering/technical support, equipment storage and associated hardware warranties. Funding for this effort is in program element 0208006F.
3. PROGRAM MANAGEMENT ADMINISTRATION: FY17 funding provides program office, engineering, and other contractor support for the Mission Planning Systems (MPS) and Joint Precision Airdrop Systems (JPADS) procurement program.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833170 / Mission Planning Systems |  |  |  |  |  |  |  | Aggregated Items Title: Mission Planning Systems |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. Mission Planning Systems (MPS) | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| a. MPS Hardware | A |  | - | - | - | - | - | 6.696 | - | - | 7.862 | - | - | 9.224 | - | - | - | - | - | 9.224 |
| b. MPS Program Management Administration (Contractor Services) | A |  | - | - | - | - | - | 0.553 | - | - | 0.650 | - | - | 0.315 | - | - | - | - | - | 0.315 |
| 2. Precision Aerial Delivery Systems (PADS) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| a. PADS Dropsondes | A |  | - | - | - | 882.00 | 500 | 0.441 | - | - | - | - | - | - | - | - | - | - | - | - |
| b. PADS Shipping | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| c. PADS Support Services \& Spares | A |  | - | - | - | - | - | 1.593 | - | - | 0.100 | - | - | - | - | - | - | - | - | - |
| d. PADS System Engineering \& Logistical Support | A |  | - | - | - | - | - | 2.869 | - | - | 3.035 | - | - | 1.348 | - | - | - | - | - | 1.348 |
| e. PADS Testing | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| f. PADS Delivery Systems | A |  | - | - | - | 19,416.67 | 144 | 2.796 | 18,076.92 | 78 | 1.410 | - | - | - | - | - | - | - | - | - |
| g. PADS PARANAVSYS Delivery Systems | A |  | - | - | - | - | - | - | - | - | - | 3,149.25 | 67 | 0.211 | - | - | - | 3,149.25 | 67 | 0.211 |
| h. PADS Delivery System Riggings \& Services | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| i. Program Management Administration (Government Cost) | A |  | - | - | - | - | - | 0.171 | - | - | 0.175 | - | - | 0.175 | - | - | - | - | - | 0.175 |
| j. Program Management Administration (Contractor Services) | A |  | - | - | - | - | - | 0.530 | - | - | 0.296 | - | - | 0.305 | - | - | - | - | - | 0.305 |
| k. PADS Ultralight | A |  | - | - | - | - | - | - | 32,000.00 | 2 | 0.064 | 19,250.00 | 4 | 0.077 | - | - | - | 19,250.00 | 4 | 0.077 |
| I. PADS Drives \& Storage Devices | A |  | - | - | - | - | - | - | 1,115.33 | 685 | 0.764 | 1,108.68 | 3,800 | 4.213 | - | - | - | 1,108.68 | 3,800 | 4.213 |
| m. Depot Equipment | A |  | - | - | - | - | - | - | 25,000.00 | 4 | 0.100 | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 15.649 | - | - | 14.456 | - | - | 15.868 | - | - | - | - | - | 15.868 |
| Total |  |  | - | - | - | - | - | 15.649 | - | - | 14.456 | - | - | 15.868 | - | $\cdot$ | - | $\cdot$ | - | 15.868 |

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 2017 Air Force |  | Date: February 2016 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 | P-1 Line Item Number / Title: 833170 / Mission Planning Systems | Aggregated Items Title: Mission Planning Systems |
| Remarks: <br> Unit costs vary because different types/configurations of equipment are being procured. |  |  |
|  |  |  |
|  <br>  such as AFWAY/NETCENTS II (Gunter AFB). |  |  |
| Mission Planning Systems (MPS) assets are centrally managed by the MPS System Support Facility (SSF) at Hill AFB. |  |  |

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| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 20.405 | - | - | - | - | - | - | - | - | - | 20.405 |
| Less PY Advance Procurement (\$ in Millions) |  | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 20.405 | - | - | - | - | - | - | - | - | - | 20.405 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 20.405 | - | - | - | - | $\cdot$ | $\cdot$ | - | - | - | 20.405 |
| (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 supports drug interdiction and counter-drug activities.
Funding for this exhibit contained in PE 0201110F
Justification:
No FY17 funds requested.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 9.060 | 9.597 | 9.331 | - | 9.331 | 9.100 | 8.980 | 9.138 | 9.302 | - | 64.508 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 9.060 | 9.597 | 9.331 | - | 9.331 | 9.100 | 8.980 | 9.138 | 9.302 | - | 64.508 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 9.060 | 9.597 | 9.331 | - | 9.331 | 9.100 | 8.980 | 9.138 | 9.302 | - | 64.508 |
| (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.






 development environment, and subsidiary systems. The system will migrate to the new USSTRATCOM Command and Control Facility.



 within the program is 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 2017 Air Force
Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 - | - 19.060 | - 19.597 | - 19.331 | 1 | - 19.331 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1 - | - 19.060 | - 19.597 | - 19.331 | 1 - | - 19.331 |

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

## Justification:

FY17 funding continues the life-cycle procurement of commercial-based hardware and software components for the ISPAN mission system which consists of the Mission Planning and Analysis System (MPAS) and the Global Adaptive Planning Collaborative Information Environment (GAP CIE) efforts. Funding procures mission system infrastructure, architecture, and related support components. This includes COTSbased hardware and software for an operational capability lab environment to certify ISPAN applications for operational use. Funding also provides a secure cross-domain security solution capability to enable automated data transfers between multi-level networks supporting planners worldwide on multiple enclaves. It allows for the procurement of items such as (but are not limited to) application servers, switches, storage area network (SAN), backup and recovery systems, guard solution software and other articles that will provide a secure Cross Domain Security Solution (CDSS) capability, and the life-cycle replacement of Government Furnished Equipment (GFE) at development contractor sites. Funding also provides for procurement of virtualization technology environments and distributed operations capability to support joint warfighters across geographically separated locations. Finally, funding provides for the initial migration of the ISPAN mission system to the new USSTRATCOM Command and Control Facility.

## Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $3080 \mathrm{~F} / 03$ / 3 |
| :--- | :--- |
| 833560 / Integrated Strat Plan \& Analy Network (ISPAN) |  |

833560 / Integrated Strat Plan \& Analy Network (ISPAN)

|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS 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 <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 (\$ M) |

Date: February 2016

## Aggregated Items Title:

Integrated Strat Plan \& Analy Network
(ISPAN)

| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ISPAN Mission <br> Systems Hardware | A | - | - | - | - | - | - | - | - | - | 1.450 | 1 | 1.450 | - | - | - | 1.450 | 1 | 1.450 |
| End-point Computing Devices | A | - | - | - | 0.150 | 1 | 0.150 | - | - | - | 1.652 | 1 | 1.652 | - | - | - | 1.652 | 1 | 1.652 |
| UNIX/SPARC-based servers | A | - | - | - | - | - | - | 0.100 | 1 | 0.100 | 0.200 | 1 | 0.200 | - | - | - | 0.200 | 1 | 0.200 |
| MPAS Virtual Servers | A | - | - | - | 1.123 | 1 | 1.123 | 2.065 | 1 | 2.065 | 0.816 | 1 | 0.816 | - | - | - | 0.816 | 1 | 0.816 |
| GAP CIE Deployment HW/SW | A | - | - | - | 1.040 | 1 | 1.040 | 1.000 | 1 | 1.000 | 1.000 | 1 | 1.000 | - | - | - | 1.000 | 1 | 1.000 |
| PRP | A | - | - | - | 0.100 | 1 | 0.100 | - | - | - | - | - | - | - | - | - | - | - | - |
| ISPAN B-Network | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ISPAN Security Enclaves (SIPR, TS/ C, \& JWICS) | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ISPAN Virtual Data Storage System | A | - | - | - | 0.500 | 1 | 0.500 | 1.700 | 1 | 1.700 | 3.468 | 1 | 3.468 | - | - | - | 3.468 | 1 | 3.468 |
| ISPAN Analysis Systems -- IWMDT and EADSIM | A | - | - | - | 1.552 | 1 | 1.552 | - | - | - | - | - | - | - | - | - | - | - | - |
| ISPAN Systems at Geographically Separated Location(s) | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ISPAN Systems reconstitute at GSUs | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Block 1 Major Hardware | A | - | - | - | 0.301 | 1 | 0.301 | - | - | - | - | - | - | - | - | - | - | - | - |
| H/W and S/W to Deploy Comman Access Card System | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cross Domain Guard Solution | A | - | - | - | 1.420 | 1 | 1.420 | - | - | - | - | - | - | - | - | - | - | - | - |
| System to Ingest External Data into ISPAN | A | - | - | - | - | - | - | 0.587 | 1 | 0.587 | - | - | - | - | - | - | - | - | - |
| ISPAN Network Systems | A | - | - | - | 1.000 | 1 | 1.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| Testing and Experimentation of ISPAN Mission Systems | A | - | - | - | 1.129 | 1 | 1.129 | 1.000 | 1 | 1.000 | - | - | - | - | - | - | - | - | - |
| ISPAN Systems for Off-Site Developers (GFE) | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: <br> Integrated Strat Plan \& Analy Network (ISPAN) |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$ M) | $\underset{(F a c h)}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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 (\$ 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) |
| Enterprise Licence Agreements ISPAN Mission Systems | A |  | - | - | - | - | - | - | 1.200 | 2 | 2.400 | - | - | - | - | - | - | - | - | - |
| Program Management <br> Administration <br> (Government Cost) | A |  | - | - | - | - | - | 0.010 | - | - | 0.010 | - | - | 0.010 | - | - | - | - | - | 0.010 |
| Program Management Administration (Contractor Services) | A |  | - | - | - | 0.245 |  | $3 \quad 0.735$ | 0.245 | 3 | 0.735 | 0.245 | 3 | 0.735 | - | - | - | 0.245 | 3 | 0.735 |
| USSTRATCOM C2 Building Hardware \& Networks | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 9.060 | - | - | 9.597 | - | - | 9.331 | - | - | - | - | - | 9.331 |
| Total |  |  | - | - | - | - | - | 9.060 | - | - | 9.597 | - | - | 9.331 | - | - | - | - | - | 9.331 |

## 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, 0208087F, 0305173F, 0305174F, 0604281F, 0804752F, 0804771F, 0901279F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 30.898 | 40.030 | 29.706 | 41.779 | - | 41.779 | 39.420 | 38.054 | 39.443 | 40.217 | - | 299.547 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 30.898 | 40.030 | 29.706 | 41.779 | - | 41.779 | 39.420 | 38.054 | 39.443 | 40.217 | - | 299.547 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 30.898 | 40.030 | 29.706 | 41.779 | - | 41.779 | 39.420 | 38.054 | 39.443 | 40.217 | - | 299.547 |
| (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 FY17 funding request was reduced by $\$ 3.4 \mathrm{M}$ to account for the availability of prior year execution balances.
Service Support to Other Core Missions - NORTHCOM PE 0201110F - P-40A
CIVIL RESPONDER COMMUNICATIONS (CRC)INTEROPERABILITY: The Civil Responder Communications capability provisions interoperable communications between a deployed Joint Task Force and federal, state, and local disaster response personnel. USNORTHCOM will use these funds to procure communications technologies that enable direct communications between military and civil command counterparts at all echelons. The collaborative requirements that this task satisfies includes shared common operational picture (COP), desktop collaboration, military and civil radio interoperability that includes encryption, and the extension of public internet and telephone service by military communications systems to the civil responders being supported. (Formerly Emergency Response Communications System (ERCS))

US Northern Command Communications PE 0201130F - P-40A
a. NORAD AND NORTHCOM INTEROPERABLE COMMUNICATIONS: This includes mission specific communications enhancements to support extension of Public Switched Telephone Network (PSTN) and Public Internet to Civil Authorities from the DOD Satellite Teleports either directly to the Civil Authorities' communications systems or through DOD 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 COMMUNICATION CAPABILITY SYSTEM LIFE CYCLE MANAGEMENT: The USNORTHCOM Deployable Communication Fleet consists of Emergency Response Vehicles (ERVs) Mobile Communications Platforms (MCPs), Rapid Response Kits (RRK)and fly-away communications systems, small enough to be flown on commercial airlines to a nationally declared disaster. (NC J6 DCCS combined the previously approved and funded Cellular System Technical Refresh and Emergency Response Communications System into one consolidated effort)
c. EARLY WARNING RADAR (EWR) COMMMUNICATIONS EQUIPMENT: The AVTEC NexGen panels are used to support the Hawaii Regional Air Operations Center (HIRAOC). The NORAD EWR Communications Equipment provide equipment to facilitate dual operation cutovers, secure/non-secure communications for a single communications network allowing clear and secure, real-time, line of sight and beyond line of sight NORAD wide command and control of airborne and ground elements.

ISR Innovations PE 0207277F - 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 | Other Related Program Elements: 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804752F, 0804771F, 0901279F |
| :---: | :---: | :---: |


| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |
| :--- | :--- |


 immediate gaps and/or shortfalls identified by warfighting activities. Eagle Vision provides direct downlink commercial imagery to operational commanders for mission support purposes.
 missions, domestic emergency responses, and providing military support to civil authorities.

Combat Air Forces (CAF) Exercises and Readiness Training PE 0207603F - P-40A
 air expeditionary force missions.

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

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

AF OFFENSIVE CYBERSPACE OPERATIONS PE 0208087F - P-40A

Air Force Communications (AIRCOM) PE 0303112F - P-40A



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




 enforcement and intelligence communities.

Space and Missile Test and Evaluation Center PE 0305173F - P-40A



 and at the Satellite Operations Center 11 (SOC11) located at Schriever AFB, CO.

Space Innovation, Integration and Rapid Technology Development PE 0305174F - 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

Line Item MDAP/MAIS Code: N/A $\quad$ Item MDAP/MAIS Code(s): N/A



 operations, thereby enabling service and joint warfighters to realized the full potential of existing and planned space capabilities.



 RDT\&E, AF, PE 0305174F, Space Innovation, Integration and Rapid Technology Development.

Tactical Data Networks Enterprise PE 0604281F - P-40A


 modernize CONUS ground based TDL gateways.

Logistics Support Activities PE 0708012F - P-40A

 programs and systems worldwide. MAFB-Gunter Annex exceeds the standard Base Information Transport Infrastructure (BITI) environment, therefore no funding is provided by BITI.
Joint Logistics Program - Total Asset Visibility PE 0708074F - P-40A



 logistics infrastructure.

Recruiting Activities PE 0801711F - P-40A
 world-wide to gather information on prospective recruits and process them into the Air Force. It supports all Active Duty and Air Guard recruiting efforts.

Recruit Training Units PE 0804711F - P-40A
 Command) with trained airmen. MTI Misconduct-Restore The Trust / Requirements associated with MTI misconduct issues at BMT.

Service Academies PE 0804721F - P-40A
US AIR FORCE ACADEMY (USAFA):

## 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, 0208087F, 0305173F, 0305174F, 0604281F, 0804752F, 0804771F, 0901279F |
| :---: | :---: | :---: |

## Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A


 universities. The remaining support is provided to USAFAMIL, the interface with the AF's military only networks (NIPRNET and SIPRNET).
 academic, athletic, military training data from the candidate's initial application to graduation \& commissioning and continuing through the military career of each cadet.

General Skill Training PE 0804731F - P-40A

 based system which provides productivity enhancements and higher degree of efficiency to AETC.

Other Professional Education PE 0804752F - P-40A

 impractical.

Support of the Training Establishment PE 0804771F - P-40A



 those processes in a timeframe adequate to realize return on investment dollars or educational benefits requires an appropriately resourced A6 organization.

Facilities Operation - Administrative PE 0901279F - P-40A



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

AF A1 Systems PE 0901299F - P-40A

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



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

Other Related Program Elements: 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804752F, 0804771F, 0901279F

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

Item MDAP/MAIS Code(s): N/A
b. AIR FORCE PERSONNEL OPERATIONS AGENCY (AFPOA) NETWORK INFRASTRUCTURE: Funding provides for the operation and sustainment of the AFPOA contact center telephony solution.

Specifically, funding provides for modular software additions, upgrades, continuing stabilization, and sustainment of the current Genesys telephony solution supporting the Total Force Service Center, Services,
A1 Service Desk, and other A1 contact center entities.
C2ISR TDL PE 0207448F - P-40A
Assistant Secretary of Defense/Command, Control, Communications and Intelligence (ASD/C3I) directed implementation of the DoD Cryptographic Modernization Initiative (CMI) on 23 February 2001. Chairman, Joint Chiefs of Staff (CJCS) Notice 6510/NSA 3-9 direct the modernization of all cryptography in military systems in the US, NATO and Coalition nations. To prevent information compromise, the National Security Agency (NSA) mandate requires Link 16 cryptographic systems be upgraded. The CJCS directed a modernization effort at the recommendation of the NSA to modernize equipment and provide enhanced security for Link 16 tactical networks (Cryptographic Modernization Initiative (CM). Likewise, a radio frequency spectrum memorandum of agreement between the DoD and the Department of Transportation mandate the internal frequency remapping of our Link 16 family of terminals to avoid conflict with next generation Federal Aviation Administration radio aids to navigation. These two mandates, among other operational reliability and capability improvements will be satisfied under a Block Upgrade (BU2) effort planned for the Link 16 Multifunctional Information Distribution System (MIDS) Low Volume Terminal (LVT). BU2 will procure new Signal Message Processor (SMP) cards that incorporate the most current NSA mandated cryptographic standards. BU2 will also procure a new Tailored Processor/Ground Multiplexer card, update software and firmware in the MIDS LVT to improve operational reliability and provide the radio the ability to remap the lower frequency range of the terminal. The new cards will be installed in all terminals and spare cards will also be purchased. Crypto mod kit being developed by the Navy as part of MIDS LVT Block Upgrade 2

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 1 | - | 1,567 | - | 1,567 | 12 | 13 | 13 | 13 |
|  | Total Obligation Authority | 36.351 | 26.665 | 37.351 | - | 37.351 | 3.444 | 3.227 | 3.270 | 3.329 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.679 | 3.041 | 4.428 | - | 4.428 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | - | - | - |
| Total: Secondary Distribution | Quantity | 1 | - | 1,567 | - | 1,567 | 12 | 13 | 13 | 13 |
|  | Total Obligation Authority | 40.030 | 29.706 | 41.779 | - | 41.779 | 3.444 | 3.227 | 3.270 | 3.329 |


| 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, 0208087F, 0305173F, 0305174F, 0604281F, 0804752F, 0804771F, 0901279F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | Service Support to Other Core Missions - NORTHCOM |  |  | - 10.306 | - 10.476 | - 1 - | - 1 - | 1 | - 1 - |
| P-40a | US Northern Command Communications |  |  | - 15.045 | - 12.997 | - 12.917 | - 13.457 | 1 | - 13.457 |
| P-40a | ISR Innovations |  |  | - 13.428 | - 15.678 | - 14.701 | - 15.863 | 1 | - 15.863 |
| P-40a | C2ISR Tactical Data Link |  |  | - 1 - | - 1 - | - 1 - | - /1.580 | 1 | - /1.580 |
| P-40a | Combat Air Forces (CAF) Exercises and Readiness Training |  |  | - 10.166 | - 10.201 | - 10.164 | - 1 - | 1 | - 1 - |
| P-40a | Wargaming and Simulation Centers |  |  | - 10.447 | - 10.711 | - 10.594 | - / 1.199 | 1 | - /1.199 |
| P-40a | Distributed Training and Exercises |  |  | - 10.241 | - 10.580 | - 10.248 | - 10.339 | 1 | - 10.339 |
| P-40a | AF OFFENSIVE CYBERSPACE OPERATIONS |  |  | - / 1.150 | - / 1.705 | - /1.329 | - / /1.554 | 1 | - /1.554 |
| P-40a | Air Force Communications (AIRCOM) |  |  | - 10.000 | - / 3.857 | - / 3.953 | - 1 - | 1 | - 1 - |
| P-40a | Security and Investigative Activities |  |  | - 10.990 | - / 1.593 | - / 1.337 | - / 1.800 | - 1- | - /1.800 |
| P-40a | Space and Missile Test and Evaluation Center |  |  | - 11.038 | - /1.683 | - 11.435 | - 11.977 | - 1- | - 11.977 |
| P-40a | Space Innovation, Integration and Rapid Technology Development |  |  | - 10.919 | - / 1.289 | - /1.221 | - 11.481 | - 1 - | - 11.481 |
| P-40a | Communications and Information Technology |  |  | - 1 - | - 1 - | - 1 - | - 15.102 | 1 | - 15.102 |
| P-40a | Tactical Data Networks Enterprise |  |  | - 10.153 | - 1 - | - 10.002 | - $/ 1.842$ | 1 | - 11.842 |
| P-40a | Logistics Support Activities |  |  | - 10.492 | - 11.277 | - 1 | - 11.177 | 1 | - 11.177 |
| P-40a | Joint Logistics Program - Total Asset Visibility |  |  | - 15.081 | - 18.162 | - 15.620 | - 15.604 | - 1 - | - 15.604 |
| P-40a | Recruiting Activities |  |  | - 10.838 | - 1 - | - 1 | - 1 - | 1 | - 1 - |
| P-40a | Recruit Training Units |  |  | - 10.000 | - 1 - | - 10.630 | - / 1.624 | - 1 | - 11.624 |
| P-40a | Service Academies |  |  | - 12.214 | - 12.702 | - 13.227 | - 13.374 | - 1 | - 13.374 |
| P-40a | General Skill Training |  |  | - 10.343 | - 10.289 | - 10.455 | - 10.695 | - 1- | - 10.695 |
| P-40a | Other Professional Education |  |  | - 10.355 | - $/ 0.429$ | - 10.357 | - 10.494 | 1 | - 10.494 |
| P-40a | Support of the Training Establishment |  |  | - 10.722 | - $/ 0.749$ | - 10.730 | - / 1.016 | 1 | - / 1.016 |
| P-40a | Facilities Operation - Administrative |  |  | - 12.661 | - $/ 0.500$ | - $/$ - | - 1 - | 1 - | - 1 - |
| P-40a | AF A1 Systems |  |  | - 14.309 | - 15.152 | - 10.786 | - 11.601 | 1 | - 11.601 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 130.898 | - 140.030 | - 129.706 | - 141.779 | - 1 - | - 141.779 |

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

## Justification:

Service Support to Other Core Missions - NORTHCOM PE 0201110F - P-40A
No FY17 funding requested.
US Northern Command Communications PE 0201130F - 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

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804752F, 0804771F, 0901279F |
| :---: | :---: | :---: |

Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A

 Joint Tactical Radio System handsets to enable the Defense Support of Civil Authorities mission.


c. EARLY WARNING RADAR (EWR) COMMUNICATIONS EQUIPMENT: No FY17 funding requested

ISR Innovations PE 0207277F - P-40A
 system configuration to reduce physical footprint; and 3) Integration of enhanced synthetic aperture RADAR (SAR) capabilities.

Combat Air Forces (CAF) Exercises and Readiness Training PE 0207603F - P-40A
FY17 funding procures parts for task trainers for ACC and other CAF air crews.
Wargaming and Simulation Centers PE 0207605F - P-40A
 warfare. The equipment allows the WPC to lead USAFE-AFAFRICA toward full integration of Live, Virtual, and Constructive (LVC) capabilities and connectivity with our Coalition partners.

Distributed Training and Exercises PE 0207697F - P-40A
 objective priorities for Air Force Wargaming Series 17.

AF OFFENSIVE CYBERSPACE OPERATIONS - P-40A
 students per year.

Air Force Communications (AIRCOM) PE 0303112F - P-40A
No FY17 funding requested.
FY16 funding totals include $\$ 3.953 \mathrm{M}$ for Overseas Contingency Operations (OCO).
Security and Investigative Activities PE 0305128F - P-40A


 investigative support to DoD/USAF investigations/operations both in-garrison and in support of wartime operations, for over 3,000 AFOSI personnel in more than 250 worldwide locations.

Space and Missile Test and Evaluation Center PE 0305173F - P-40A
FY17 funds will be used to purchase hardware and software to support the implementation of Multi-Mission Satellite Operations Center (MMSOC) Block 2.1.

## 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, 0208087F, 0305173F, 0305174F, 0604281F, 0804752F, 0804771F, 0901279F |
| :---: | :---: | :---: |

Space Innovation, Integration and Rapid Technology Development PE 0305174F - P-40A

 space and cyber assets. Funding buys system-specific hardware, software, routers, licenses, etc., to maintain the efficiency and compatibility with all current models.

Tactical Data Networks Enterprise PE 0604281F - P-40A

 accurately by bridging discrete airborne, terrestrial, and maritime and space-based C4ISR networks.

Logistics Support Activities PE 0708012F - P-40A

 enterprise software license management. Provides end-of-life equipment replacement for a fully operational LAN.

Joint Logistics Program - Total Asset Visibility PE 0708074F - P-40A






Recruiting Activities PE 0801711F - P-40A
No FY17 funding requested.
Recruit Training Units PE 0804711F - P-40A
 physical safety of $\sim 36 \mathrm{~K}$ Basic Military Trainees. Effectively target limited resources to deter, detect, dissuade and hold personnel accountable in all BMT facilities.

Service Academies PE 0804721F - P-40A
US AIR FORCE ACADEMY (USAFA):
 standards in order to support the AF Academy mission. FY17 funds procure IT integral to the operation of each network in support of the Air Force Academy mission.

 and continuing through the military career of each cadet.

General Skill Training PE 0804731F - 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 | Other Related Program Elements: 0207697F, 0208087F, 0305173F, 0305174F, 0604281F, 0804752F, 0804771F, 0901279F |
| :---: | :---: | :---: |

## Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A

 capabilities and student records into the TTMS.

Other Professional Education PE 0804752F - P-40A



 Microscope equipment to support graduate student thesis and dissertations research.

Support of the Training Establishment PE 0804771F - P-40A

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

Facilities Operation - Administrative PE 0901279F - P-40A
No FY17 funding requested.
AF A1 Systems PE 0901299F - P-40A
 Center were consolidated for more effective management and oversight into Air Force Personnel Operations Agency (AFPOA) Network Infrastructure.
 Automated Records Management Systems and Virtual Military Personnel Flight among others. Funding also supports MilPDS FDCCI compliance efforts.


 includes the following:
 applications such as: Personnel Automated Records Information System and Business Objects among others. Funding also supports RCPS FDCCI compliance efforts.


 foundational hardware IT system and support for A1/AFPC/AFPOA FDCCI compliance efforts.

## UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: <br> Service Support to Other Core Missions NORTHCOM |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  |  |  |  |  |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PE 0201110F SERVICE SUPPORT TO USNORTHCOM ACTIVITIES | A |  | - | - | 0.306 | - | - | 0.476 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.476 |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | 0.306 | - | - | 0.476 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 0.306 | - | - | 0.476 | - | . | - | - | - | - | - | - | - | - | - | - |

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 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: <br> US Northern Command Communications |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <br> (\$ 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 <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INTEROPERABLE COMMUNICATION | A |  | - | - | 0.079 | - | - | 0.088 | - | - | 0.581 | - | - | 0.581 | - | - | - | - | - | 0.581 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.088 |  | - | 0.581 |  | - | 0.581 |  | - | - |  | - | 0.581 |
| DEPLOYABLE COMMUNICATIONS CAPABILITY SYSTEM LIFE CYCLE MANAGEMENT | A |  | - | - | 2.883 | - | - | 2.909 | - | - | 2.336 | - | - | 2.876 | - | - | - | - | - | 2.876 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.909 |  | - | 2.336 |  | - | 2.876 |  | - | - |  | - | 2.876 |
| EARLY WARNING RADAR (EWR) COMMUNICATIONS EQUIPMENT | A |  | - | - | 2.083 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | 5.045 | - | - | 2.997 | - | - | 2.917 | - | - | 3.457 | - | - | - | - | - | 3.457 |
| Total |  |  | - | - | 5.045 | - | - | 2.997 | - | - | 2.917 | - | - | 3.457 | - | - | - | - | - | 3.457 |

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 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <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 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ID <br> CD | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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) | Qty (Each) | 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) | Qty <br> (Each) | Total Cost (\$M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (1). EAGLE VISION DATA ACQUISITION SYSTEM REFRESH/ CAPITAL EQUIPMENT REPLACEMENT PE 0207277F | A |  | - | - | 2.396 | - | - | - 4.599 | - | - | 3.801 | - | - | 5.524 | - | - | - | - | - | 5.524 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 0.920 |  | - | 0.760 |  | - | 1.096 |  | - | - |  | - | 1.096 |
| AFNG |  |  |  | - | - |  |  | 3.679 |  | - | 3.041 |  | - | 4.428 |  | - | - |  | - | 4.428 |
| AFR |  |  |  | - | - |  |  | - |  | - | - |  | - | - |  | - | - |  | - | - |
| (3). EAGLE VISION PROGRAM MANAGEMENT ADMINISTRATION (PMA) | A |  | - | - | 1.032 | - |  | - 1.079 | - | . | 0.900 | - | - | 0.339 | - | - | . | - | - | 0.339 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - 1.079 |  | - | 0.900 |  | - | 0.339 |  | - | - |  | - | 0.339 |
| Subtotal: Uncategorized |  |  | - | - | 3.428 | - |  | 5.678 | - | - | 4.701 | - | - | 5.863 | - | - | - | - | - | 5.863 |
| Total |  |  | - | - | 3.428 | - |  | - 5.678 | - | - | 4.701 | - | - | 5.863 | - | - | - | - | - | 5.863 |

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

## Remarks:

 hardware and software of a new satellite to allow for downlinking from the new satellite system

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: C2ISR Tactical Data Link |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | MDAP/MAISCode | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] | ID |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \\ & \hline \end{aligned}$ | Total Cost <br> (\$M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ 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) |
| INSTALL KITS (Active) PE 0207488F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Install Kits (Active) PE 0207488F | A |  | - | - | - | - | - | - - | - | - | - | 0.106 | 12 | 1.274 | - | - | - | 0.106 | 12 | 1.274 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 12 | 1.274 |  | - | - |  | 12 | 1.274 |
| $\begin{aligned} & \text { Subtotal: INSTALL KITS (Active) PE } \\ & \text { 0207488F } \end{aligned}$ |  |  | - | - | - | - | - | - | - | - | - | - | - | 1.274 | - | - | - | - | - | 1.274 |
| Other Government Support |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Government Support | A |  | - | - | - | - | - | - - | - | - | - | 0.306 | 1 | 0.306 | - | - | - | 0.306 | 1 | 0.306 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 1 | 0.306 |  | - | - |  | 1 | 0.306 |
| Subtotal: Other Government Support |  |  | - | - | - | - | - | - | - | - | - | - | - | 0.306 | - | - | - | - | - | 0.306 |
| Total |  |  | - | - | - | - | - | - - | - | - | - | - | - | 1.580 | - | - | - | - | - | 1.580 |

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 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03/4 |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: Combat Air Forces (CAF) Exercises and Readiness Training |  |  |  |  |
|  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|l\|l\|l\|l\|} \hline \text { MDAP/ } \\ \hline \text { ID } & \text { MAIS } \\ \text { CD } & \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | 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 Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| COMBAT AIR FORCE EXERCISES AND READINESS TRAINING PE $0207603 F$ | A | - | - | 0.166 | - | - | 0.201 | - | - | 0.164 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | 0.201 |  | - | 0.164 |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  | - | - | 0.166 | - | - | 0.201 | - | - | 0.164 | - | - | - | - | - | - | $\cdot$ | - | - |
| Total |  | - | - | 0.166 | - | - | 0.201 | - | - | 0.164 | - | - | - | - | - | - | - | - | - |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force $\quad$ Da |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03/4 |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: Wargaming and Simulation Centers |  |  |  |  |
|  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 $\qquad$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WARRIOR PREPARATION CENTER PE 0207605F | A | - | - | 0.447 | - | - | 0.711 | - | - | 0.594 | - | - | 1.199 | - | - | - | - | - | 1.199 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | 0.711 |  | - | 0.594 |  | - | 1.199 |  | - | - |  | - | 1.199 |
| Subtotal: Uncategorized |  | - | - | 0.447 | - | - | 0.711 | - | - | 0.594 | - | - | 1.199 | - | - | - | $\cdot$ | - | 1.199 |
| Total |  | - | - | 0.447 | - | - | 0.711 | - | - | 0.594 | - | - | 1.199 | - | - | - | - | - | 1.199 |

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

## Remarks:

 toward full integration of live, virtual, and constructive capabilities and connectivity with our coalition partners. This effort is funded in PE 0207605F.

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: Distributed Training and Exercises |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DISTRIBUTED TRAINING AND EXERCISES PE 0207697F | A |  | - | - | 0.241 | - | - | 0.580 | - | - | 0.248 | - | - | 0.339 | - | - | - | - | - | 0.339 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.580 |  | - | 0.248 |  | - | 0.339 |  | - | - |  | - | 0.339 |
| Subtotal: Uncategorized |  |  | - | - | 0.241 | - | - | 0.580 | - | - | 0.248 | - | - | 0.339 | - | - | - | - | - | 0.339 |
| Total |  |  | - | - | 0.241 | - | - | 0.580 | - | - | 0.248 | - | - | 0.339 | - | - | - | $\cdot$ | - | 0.339 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: AF OFFENSIVE CYBERSPACE OPERATIONS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F/03/4 |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|l\|l\|l\|}  & \text { MDAPI } \\ \text { ID } & \text { MAIS } \\ \text { CD } & \text { Code } \end{array}$ | $\underset{(\$ M)}{\text { Unit Cost }}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CYBER WORKFORCE TRAINING PE 0208087 F | A | - | - | 1.150 | - | - | 1.705 | - | - | 1.329 | 0.001 | 1,554 | 1.554 | - | - | - | 0.001 | 1,554 | 1.554 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | 1.705 |  | - | 1.329 |  | 1,554 | 1.554 |  | - | - |  | 1,554 | 1.554 |
| Subtotal: Uncategorized |  | - | - | 1.150 | - | - | 1.705 | - | - | 1.329 | - | - | 1.554 | - | - | - | - | - | 1.554 |
| Total |  | - | - | 1.150 | - | - | 1.705 | - | - | 1.329 | - | - | 1.554 | - | - | - | - | - | 1.554 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  |  | Aggregated Items Title: <br> Air Force Communications (AIRCOM) |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ |  | 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 <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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AIRBORNE NETWORKING INTEGRATION (OCO) (PE 0303112F) | A |  | - | - | 0.000 | 3.857 |  | 1 | 3.857 | - | - | 3.953 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 1 | 3.857 |  | - | 3.953 |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | 0.000 | - | - | - | 3.857 | - | - | 3.953 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 0.000 | - | - | - | 3.857 | - | - | 3.953 | - | - | - | - | - | - | - | - | - |
| Note: Subtotals or Tot <br> Remarks: <br> The ANGI FY15 and | als in Y16 | this Ex OCO fu | xhibit P-40a <br> funding will e | may not b <br> gineer and | xact or sum <br> field 2 cons | m exactly, <br> solodated ai | e to roun <br> orne co | undin | g. <br> unications | s GIG entry | int syst | n additio | the fundin | will su | Interim | ontractor | port ( |  |  |  |  |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
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| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: <br> Security and Investigative Activities |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OSI OPERATIONS PE 0305128F | A |  | - | - | 0.990 | - | - | 1.593 | - | - | 1.337 | - | - | 1.800 | . | - | - | - | - | 1.800 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.593 |  | - | 1.337 |  | - | 1.800 |  | - | - |  | - | 1.800 |
| Subtotal: Uncategorized |  |  | - | - | 0.990 | - | - | 1.593 | - | - | 1.337 | - | - | 1.800 | - | - | - | - | - | 1.800 |
| Total |  |  | - | - | 0.990 | - | - | 1.593 | - | - | 1.337 | - | - | 1.800 | - | - | - | - | - | 1.800 |

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 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03/4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: <br> Space and Missile Test and Evaluation Center |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{aligned} & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | 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 Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RESEARCH AND DEVELOPMENT SPACE AND MISSILE OPERATIONS (RDSMO) (PE 0305173F) | A |  | - | - | 1.038 | - | - | - 1.683 | - | - | 1.435 | - | - | 1.977 | - | - | - | - | - | 1.977 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.683 |  | - | 1.435 |  | - | 1.977 |  | - | - |  | - | 1.977 |
| Subtotal: Uncategorized |  |  | - | - | 1.038 | - | - | 1.683 | - | - | 1.435 | - | - | 1.977 | - | - | - | - | - | 1.977 |
| Total |  |  |  |  | 1.038 | - |  | 1.683 | - | - | 1.435 | - | - | 1.977 | - | - | - | - | - | 1.977 |

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 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: <br> Space Innovation, Integration and Rapid Technology Development |  |  |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
|  |  |  | 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) | Qty (Each) | 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) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |
| Distributed Communications Architecture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Distributed Communications Architecture | A |  | - | - | 0.919 | - | - | 0.782 | - | - | 1.000 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.782 |  | - | 1.000 |  | - | - |  | - | - |  | - | - |
| Subtotal: Distributed Communications Architecture |  |  | - | - | 0.919 | - | - | - 0.782 | - | - | 1.000 | - | - | - | - | - | - | - | - | - |
| Space Analysis Center |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Space Analysis Center PE 0305174F | A |  | - | - | 0.000 | - | - | 0.507 | - | - | 0.221 | - | - | 1.481 | - | - | - | - | - | 1.481 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.507 |  | - | 0.221 |  | - | 1.481 |  | - | - |  | - | 1.481 |
| Subtotal: Space Analysis Center |  |  | - | - | 0.000 | - | - | 0.507 | - | - | 0.221 | - | - | 1.481 | - | - | - | - | - | 1.481 |
| Total |  |  | - | - | 0.919 | - | - | 1.289 | - | - | 1.221 | $\cdot$ | - | 1.481 | - | - | - | - | - | 1.481 |

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 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: Communications and Information Technology |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| Communications and Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Communications and Information Technology PE 0308611F | A |  | . | - | - | - | - | - | - | - | - | - | - | 5.102 | - | - | - | - | - | 5.102 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | 5.102 |  | - | - |  | - | 5.102 |
| Subtotal: Communications and Information Technology |  |  | - | - | - | - | - | - | - | - | - | - | - | 5.102 | - | - | - | - | - | 5.102 |
| Total |  |  | - | - | - | - |  | - | - | - | - | - | - | 5.102 | - | - | - | - | - | 5.102 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: <br> Tactical Data Networks Enterprise |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | mDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 (\$ 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) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| c. TACTICAL DATA NETWORKS ENTERPRISE (PE 0604281F) | A |  | - | - | 0.153 | - | - | - | - | - | 0.002 | - | - | 1.842 | - | - | - | - | - | 1.842 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 0.002 |  | - | 1.842 |  | - | - |  | - | 1.842 |
| Subtotal: Uncategorized |  |  | - | - | 0.153 | - | - | - | - | - | 0.002 | - | - | 1.842 | - | - | - | - | - | 1.842 |
| Total |  |  | - | - | 0.153 | - | - | - | - | - | 0.002 | - | - | 1.842 | - | - | - | - | - | 1.842 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Logistics Support Activities |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|c\|} \mathrm{ID} \\ \mathrm{CD} \end{array}$ | $\begin{array}{\|c\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | 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 |  | - | - | 0.492 | - | - | 1.277 | - | - | - | - | - | 1.177 | - | - |  | - | - | 1.177 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.277 |  | - | - |  | - | 1.177 |  | - | - |  | - | 1.177 |
| Subtotal: Uncategorized |  |  | - | - | 0.492 | - | - | 1.277 | - | - | - | - | - | 1.177 | - | - | - | - | - | 1.177 |
| Total |  |  | - | - | 0.492 | - | - | 1.277 | - | $\cdot$ | - | - | - | 1.177 | - | - | - | - | - | 1.177 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: <br> Joint Logistics Program - Total Asset Visibility |  |  |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
|  |  |  | 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) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Active Radio Frequency Identification PE 0708074F | A |  | - | - | 0.987 | - | - | 1.594 | - | - | 1.337 | - | - | 1.043 | - | - | - | - | - | 1.043 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.594 |  | - | 1.337 |  | - | 1.043 |  | - | - |  | - | 1.043 |
| Passive Radio Frequency Identification | A |  | - | - | 1.070 | - | - | 1.716 | - | - | 1.029 | - | - | 1.367 | - | - | - | - | - | 1.367 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.716 |  | - | 1.029 |  | - | 1.367 |  | - | - |  | - | 1.367 |
| Item Unique Identification | A |  | - | - | 1.421 | - | - | 2.279 | - | - | 1.913 | - | - | 1.042 | - | - | - | - | - | 1.042 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.279 |  | - | 1.913 |  | - | 1.042 |  | - | - |  | - | 1.042 |
| Real Time Locating Systems | A |  | - | - | 1.603 | - | - | 2.573 | - | - | 1.341 | - | - | 2.152 | - | - | - | - | - | 2.152 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.573 |  | - | 1.341 |  | - | 2.152 |  | - | - |  | - | 2.152 |
| Subtotal: Uncategorized |  |  | - | - | 5.081 | - | - | 8.162 | - | - | 5.620 | - | - | 5.604 | - | - | - | - | $\cdot$ | 5.604 |
| Total |  |  | - | - | 5.081 | - | - | 8.162 | - | - | 5.620 | - | - | 5.604 | - | - | - | - | - | 5.604 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Recruiting Activities |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | rior Year |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAPI } \\ & \text { MAIS } \\ & \text { code } \\ & \hline \end{aligned}$ | 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) | 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) | $\underset{(S M)}{ } \begin{array}{\|c} \text { Unit Cost } \\ (S) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost $\qquad$ | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Air Force Recruiting and Information Support System Legacy PE 0801711F | A |  | 0.838 | 1 | 0.838 | - |  | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - - |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | $\cdot$ | $\cdot$ | 0.838 | - |  | - - | - | $\cdot$ | - | - | $\cdot$ | - | $\cdot$ | $\cdot$ | - | $\cdot$ | - | - |
| Total |  |  | - | - | 0.838 | - |  | - | - | - | - | - | $\cdot$ | - | - | - | - | $\cdot$ | - | $\cdot$ |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <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) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BMT Surveillance System PE 0804711F | A |  | - | - | 0.000 | - | - | - - | - | - | 0.630 | - | - | 1.624 | - | - | - | - | - | 1.624 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | 0.630 |  | - | 1.624 |  | - | - |  | - | 1.624 |
| Subtotal: Uncategorized |  |  | $\cdot$ | - | 0.000 | - | - | - - | $\cdot$ | - | 0.630 | - | - | 1.624 | - | - | - | $\cdot$ | - | 1.624 |
| Total |  |  | - | - | 0.000 | - | - | - | - | $\cdot$ | 0.630 | - | - | 1.624 | - | - | - | $\cdot$ | - | 1.624 |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Service Academies |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 \mathrm{~F} / 03 / 4$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \text { MDAPI } \\ \text { MAIs } \\ \text { Code } \\ \hline \end{array}$ | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SERVICE ACADEMIES . USAFA PE 0804721F | A |  | - | - | 2.214 | - | - | 2.702 | - | - | 3.227 | - | - | 3.374 | - | - |  | - | - | 3.374 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.702 |  | - | 3.227 |  | - | 3.374 |  | - | - |  | - | 3.374 |
| Subtotal: Uncategorized |  |  | - | - | 2.214 | - | - | 2.702 | - | - | 3.227 | - | - | 3.374 | - | - | - | - | - | 3.374 |
| Total |  |  | - | - | 2.214 | - |  | 2.702 | - | - | 3.227 | - | - | 3.374 | - | - | . | - | - | 3.374 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: General Skill Training |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GEN SKILL TRAINING PE 0804731F | A |  | - | - | 0.238 | - | - | - 0.100 | - | - | 0.210 | - | - | 0.335 | - | - | - | - | - | 0.335 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.100 |  | - | 0.210 |  | - | 0.335 |  | - | - |  | - | 0.335 |
| TECH TNG MANAGEMENT SYSTEM | A |  | - | - | 0.105 | - | - | - 0.189 | - | - | 0.245 | - | - | 0.360 | - | - | - | - | - | 0.360 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.189 |  | - | 0.245 |  | - | 0.360 |  | - | - |  | - | 0.360 |
| Subtotal: Uncategorized |  |  | - | - | 0.343 | - | - | 0.289 | - | - | 0.455 | - | - | 0.695 | - | - | - | - | - | 0.695 |
| Total |  |  | - | - | 0.343 | - | - | - 0.289 | - | - | 0.455 | - | - | 0.695 | - | - | - | - | - | 0.695 |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Other Professional Education |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Coded } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OTHER PROFESSIONAL EDUCATION PE $0804752 F$ | A |  | - | - | 0.355 | - | - | 0.429 | - | - | 0.357 | - | - | 0.494 | - | - | - | - | - | 0.494 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.429 |  | - | 0.357 |  | - | 0.494 |  | - | - |  | - | 0.494 |
| Subtotal: Uncategorized |  |  | - | - | 0.355 | - | - | 0.429 | - | - | 0.357 | - | - | 0.494 | - | - | - | - | - | 0.494 |
| Total |  |  | - | - | 0.355 | - | - | 0.429 | - | - | 0.357 | - | - | 0.494 | - | - | - | - | - | 0.494 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: Support of the Training Establishment |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TRAINING SUPPORT PE 0804771F | A |  | - | - | 0.722 | - | - | 0.749 | - | - | 0.730 | - | - | 1.016 | - | - | - | - | - | 1.016 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.749 |  | - | 0.730 |  | - | 1.016 |  | - | - |  | - | 1.016 |
| Subtotal: Uncategorized |  |  | - | - | 0.722 | - | - | 0.749 | - | - | 0.730 | - | - | 1.016 | - | - | - | $\cdot$ | - | 1.016 |
| Total |  |  | - | - | 0.722 | - | - | 0.749 | - | - | 0.730 | - | - | 1.016 | - | - | - | - | - | 1.016 |

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 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Facilities Operation - Administrative |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | 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 (Each) | 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 (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { NexGen IT PE } \\ & \text { 0901279F } \end{aligned}$ | A |  | - | - | 2.661 | - | - | - 0.500 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.500 |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | 2.661 | - | - | - 0.500 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 2.661 | - | - | 0.500 | - | - | - | - | - | - | - | - | - | - | - | - |

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 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <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 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | Qty (Each) | 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 (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PERSONNEL SERVICE DELIVERY PE 0901299F | A |  | - | - | 0.315 | - | - | 0.379 | - | - | 0.282 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.379 |  | - | 0.282 |  | - | - |  | - | - |  | - | - |
| MILITARY <br> PERSONNEL DATA SYSTEM (MILPDS) | A |  | - | - | 0.770 | - | - | 0.907 | - | - | 0.283 | - | - | 0.536 | - | - | - | - | - | 0.536 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.907 |  | - | 0.283 |  | - | 0.536 |  | - | - |  | - | 0.536 |
| REGIONALIZATION OF CIV PERS SUPPORT | A |  | - | - | 1.391 | - | - | 1.664 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.664 |  | - | - |  | - | - |  | - | - |  | - | - |
| AIR FORCE PERSONNEL CENTER | A |  | - | - | 1.833 | - | - | 2.202 | - | - | 0.221 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.202 |  | - | 0.221 |  | - | - |  | - | - |  | - | - |
| Air Force Personnel Operations Agency (AFPOA) Network Infrastructure | A |  | - | - | - | - | - | - | - | - | - | - | - | 1.065 | - | - | - | - | - | 1.065 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | - | 1.065 |  | - | - |  | - | 1.065 |
| Subtotal: Uncategorized |  |  | - | - | 4.309 | - | - | 5.152 | - | - | 0.786 | - | - | 1.601 | $\cdot$ | - | - | - | - | 1.601 |
| Total |  |  | - | - | 4.309 | - | - | 5.152 | - | - | 0.786 | - | - | 1.601 | - | - | - | - | - | 1.601 |

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 2017 Air Force
Date: February 2016

## 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: 0303150F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2017$ Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 9.098 | 7.212 | 15.729 | - | 15.729 | 13.857 | 13.034 | 13.263 | 13.502 | - | 85.695 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 9.098 | 7.212 | 15.729 | - | 15.729 | 13.857 | 13.034 | 13.263 | 13.502 | - | 85.695 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 9.098 | 7.212 | 15.729 | - | 15.729 | 13.857 | 13.034 | 13.263 | 13.502 | - | 85.695 |
| (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, servers, work stations, 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 AF specific applications such as the Deliberate Crisis Action Planning and Execution Segments (DCAPES) and Logistics Feasibility Analysis Capability (LOGFAC) that feed into the Joint Operations Planning and Execution System (JOPES). GCCS-AF is integrated at the following locations to establish initial and full joint connectivity and operational capability across the spectrum of intelligence, operations, manpower, and logistics: AF-supported war-fighting command, 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 base-level 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

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

## 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: 0303150F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| $\begin{gathered} \text { Exhibit } \\ \text { Type } \\ \hline \end{gathered}$ | Title* | Subexhibits | $\begin{array}{\|l\|l} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 GLOL COMMAND and CONTROL SYS |  |  | - 10.000 | - 19.098 | - 17.212 | - / 15.729 | - 1 | - / 15.729 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 10.000 | - 19.098 | - 17.212 | - / 15.729 | - 1 - | - /15.729 |

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

## Justification:







 integration with DoD's emerging next generation joint C 2 enabler.

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03/4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834040 / AF Global Command \& Control Sys |  |  |  |  |  |  |  | Aggregated Items Title: AF GLOL COMMAND and CONTROL SYS |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  | $\begin{array}{\|l\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | 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 <br> 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 <br> Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GCCS-AF IMPLEMENTATION | A |  | - | - | 0.000 | - | - | 0.787 | - | - | 1.139 | - | - | 9.552 | - | - | - | - | - | 9.552 |
| PMA Contractor Services | A |  | - | - | 0.000 | - | - | 4.856 | - | - | 4.355 | - | - | 4.003 | - | - | - | - | - | 4.003 |
| GCCS-AF IMPLEMENTATION (INTEGRATION AND INSTALLATION) | A |  | - | - | 0.000 | - | - | 3.455 | - | - | 1.718 | - | - | 2.174 | - | - | - | - | - | 2.174 |
| Subtotal: Uncategorized |  |  | $\cdot$ | - | 0.000 | - | - | 9.098 | - | - | 7.212 | - | - | 15.729 | - | - | - | $\cdot$ | - | 15.729 |
| Total |  |  | - | - | 0.000 | - | - | 9.098 | - | - | 7.212 | - | - | 15.729 | - | - | - | . | - | 15.729 |

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 9.097 | 11.462 | 13.062 | 9.814 | - | 9.814 | 9.987 | 10.165 | 10.344 | 10.530 | - | 84.461 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 9.097 | 11.462 | 13.062 | 9.814 | - | 9.814 | 9.987 | 10.165 | 10.344 | 10.530 | - | 84.461 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 9.097 | 11.462 | 13.062 | 9.814 | - | 9.814 | 9.987 | 10.165 | 10.344 | 10.530 | - | 84.461 |
| (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:

AMC Command and Control System PE 0401840F - P-40A
PE 0401840F MOBILITY COMMAND AND CONTROL:
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 618th AOC operates combat delivery, strategic airlift, air refueling, and aeromedical evacuation operations around the world. Funding for this exhibit contained in program element (PE) 0401840F.
a. MOBILITY AIR FORCE (MAF) COMMAND AND CONTROL (C2) INFRASTRUCTURE: Provides base wired/wireless infrastructure equipment supporting AMC's 618th AOC and AMC's 12 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.
b. DEPLOYED SATELLITE COMMUNICATIONS (DSATCOM): Provides C2 communications capabilities for deployed Mobility C2 forces and mission support team C2 operations. These operations rapidly install mission support communications at austere base locations where communications to support air mobility operations are nonexistent or insufficient. The DSATCOM program is the primary funding vehicle for procuring communications equipment supporting these components. The resources directly support C2 and In-Transit Visibility (ITV) of deployed and enroute personnel, aircraft, and cargo providing critical communications to Contingency Response Groups (CRGs). CRGs are self-sufficient groups of multi-skilled, highly-trained airmen, representing different Air Force specialty codes, who can rapidly deploy anywhere in the world with little notice to open air bases for any follow-on mission. The Hard-side Expandable Lightweight Air Mobile Shelter (HELAMS) is the primary weapon system providing this support. It is a rapidly deployable, self-contained C2/ITV command center. This shelter functions as the base command post during the initial phases of airbase build-up and contains integrated communications equipment such as radios, computers, printers and fax machines.

Special Operations Forces PE 0404011F - P-40A
PE 0404011F Special Operations Forces:

## Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications <br> P-1 Line Item Number / Title: <br> 834070 / Mobility Command and Control

Equip / BSA 4: Spcl Comm-Electronics Projects


 BOS packages become available. FY16 funding totals include $\$ 2 \mathrm{M}$ appropriated for Overseas Contingency Operations.

FY16 funding totals include $\$ 2 \mathrm{M}$ for Overseas Contingency Operations.
SPECIAL TACTICS / COMBAT CONTROL PE 0408011F - P-40A
PE 0408011F AFSOC SPECIAL TACTICS/COMMAND \& CONTROL:



Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | AMC Command and Control System |  |  | - 19.097 | - /11.095 | - /11.062 | - 19.814 | 1 | - 19.814 |
| P-40a | Special Operations Forces |  |  | 1 | - 1 | - 12.000 | - 1 | - 1 - | - 1 |
| P-40a | SPECIAL TACTICS / COMBAT CONTROL |  |  | - 1 | - 10.367 | 1 | 1 | - 1 - | 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  | - 19.097 | - / 11.462 | - /13.062 | - 19.814 | 1 | - 19.814 |

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

## Justification:

AMC Command and Control System PE 0401840F - P-40A
PE 0401840F MOBILITY COMMAND AND CONTROL

 meet the needs of the warfighter and AMC's worldwide mobility mission.

Special Operations Forces PE 0404011F - P-40A
PE 0404011F Special Operations Forces:
No FY17 funding requested.
SPECIAL TACTICS / COMBAT CONTROL PE 0408011F - P-40A
PE 0408011F AIR FORCE SPECIAL OPERATIONS COMMAND SPECIAL TACTICS COMMAND AND CONTROL (AFSOC TAC C2)
After FY15, program funding moved to WSC 837100 Tactical Communications Electronics Equipment. No FY17 funding requested in WSC 834070 Mobility Command and Control.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834070 / Mobility Command and Control |  |  |  |  |  |  |  |  | Aggregated Items Title: <br> AMC Command and Control System |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{array}{\|c} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) |  | 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 (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WING LOCAL AREA NETWORK (LAN) Network Infrastructure | A |  | 4.397 | 1 | 4.397 | 7.875 |  | 1 | 7.875 | 8.185 | 1 | 8.185 | 7.314 | 1 | 7.314 | - | - | - | 7.314 | 1 | 7.314 |
| WING LOCAL AREA NETWORK (LAN) Land Mobile Radio (LMR) Systems | A |  | 4.400 | 1 | 4.400 | 2.870 |  | 1 | 2.870 | 2.177 | 1 | 2.177 | 1.800 | 1 | 1.800 | - | - | - | 1.800 | 1 | 1.800 |
| DEPLOYABLE SATELLITE COMMUNICATIONS (DSATCOM) | A |  | 0.300 | 1 | 0.300 | 0.350 |  | 1 | 0.350 | 0.350 | 2 | 0.700 | 0.350 | 2 | 0.700 | - | - | - | 0.350 | 2 | 0.700 |
| Subtotal: Uncategorized |  |  | - | - | 9.097 | - | - | - | 11.095 | - | - | 11.062 | - | - | 9.814 | - | - | - | - | - | 9.814 |
| Total |  |  | - | - | 9.097 | - | - | - | 11.095 | - | - | 11.062 | - | - | 9.814 | - | - | - | - | - | 9.814 |

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| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834070 / Mobility Command and Control |  |  |  |  |  |  |  | Aggregated Items Title: Special Operations Forces |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|} \text { MDAPII } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$M) | $\begin{array}{\|c\|} \hline \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Command and Control (C2) Air Rapid Response Kits (ARRKs) | A |  | - | - | - | - | - | - | 0.667 | 3 | 2.000 | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | - | - | - | 2.000 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | - | - | - | - | 2.000 | - | - | - | - | - | - | - | - | - |

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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: <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): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0603287F, 0604287F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 42.323 | 39.925 | 103.269 | 99.460 | 7.500 | 106.960 | $69.052^{(a)}$ | $87.014{ }^{\text {(b) }}$ | $83.120^{(c)}$ | $57.345{ }^{\text {(d) }}$ | - | $589.008{ }^{(\mathrm{e})}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 42.323 | 39.925 | 103.269 | 99.460 | 7.500 | 106.960 | 69.052 | 87.014 | 83.120 | 57.345 | - | 589.008 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 42.323 | 39.925 | 103.269 | 99.460 | 7.500 | 106.960 | 69.052 | 87.014 | 83.120 | 57.345 | - | 589.008 |


| (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-Launched Cruise Missile (ALCM) PE 0101122F - P-40A
PE 0101122 F - AIR LAUNCHED CRUISE MISSILE (ALCM) SECURITY SYSTEMS includes commodity security equipment including intrusion detection sensors, alarm annunciators, and surveillance systems required for nuclear warhead storage locations.

Minuteman Squadrons PE 0101213F - P-4OA
PE 0101213F MINUTEMAN SQUADRONS/Minuteman Security Equipment includes commodity security equipment including intrusion detection sensors, alarm annunciators, and surveillance systems required for nuclear warhead storage locations.

Air Base Ground Defense PE 0207588F - P-40A
Air Force Tactical Security Equipment provides 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.

Antiterrorism PE 0208047F - P-40A
PE 0208047F: ANTI-TERRORISM
Tactical and Expeditionary Security Systems: FY16 funds antiterrorism activities for the Air Force. Primarily, this line funds the Air Force's only perimeter installation access control system, the Defense Biometrics Identification System (DBIDS). This line also funds mitigation efforts for Air Force vulnerabilities identified in Air Force and Joint higher headquarters inspections and vulnerability assessments, procurement of intrusion detection systems which greatly enhance the effectiveness of AF antiterrorism program efforts to detect, deter, and defend service members, civilian employees, family members, facilities, and other AF resources around the globe against terrorist attacks.

General Skill Training PE 0804731F - P-40A

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

P-1 Line Item Number / Title:
834130 / Air Force Physical Security System
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: 0603287F, 0604287F

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

 Item MDAP/MAIS Code(s): N/ABASIC MILITARY TRAINING (BMT) SURVEILLANCE SECURITY SYSTEM: Due to allegations of misconduct by Military Training Instructors (MTIs) at BMT, AETC/CC directed an investigation to identify issues that place Airmen at risk in their training environment. This investigation was led by AF/CVS and revealed weaknesses in existing detection measures. SECAF/CSAF support findings and actions AETC is taking to prevent misconduct from reoccurring.

The purpose of the camera surveillance effort is to deter, monitor, and act upon the misconduct of Basic Trainees and/or Military Training Instructors. The goal is the surveillance of all common areas throughout all BMT facilities to include Airman Training Complexes (ATC) and Dining/Classroom Facilities (DCF). The surveillance system monitors personnel within all training facilities and provides a central storage solution expandable to maintain three years of video data.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 39.925 | 103.269 | 99.460 | 7.500 | 106.960 | 69.052 | 87.014 | 56.253 | 15.494 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | - | 26.867 | 41.851 |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 39.925 | 103.269 | 99.460 | 7.500 | 106.960 | 69.052 | 87.014 | 83.120 | 57.345 |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016


P-1 Line Item Number / Title:
834130 / Air Force Physical Security System 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: 0603287F, 0604287F |
| :---: | :---: | :---: |


| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | - 11.989 | - 11.908 | - 11.710 | - 1 | - 11.710 |
| P-40a | Minuteman Squadrons |  |  | 1 | - 10.850 | - 10.814 | - 10.730 | - 1 | - 10.730 |
| P-40a | Air Base Ground Defense |  |  | - 1 | - 15.429 | - / 15.598 | - 14.647 | - 17.500 | - / 12.147 |
| P-3a | 1 / Base Physical Security Systems (Capability Improvement) |  |  | - / 35.727 | - 126.157 | - 175.849 | - 184.482 | - 1 | - 184.482 |
| P-40a | Antiterrorism |  |  | - 16.596 | - 13.000 | - 19.100 | - 17.891 | 1 | - 17.891 |
| P-40a | General Skill Training |  |  | - 1 | - 12.500 | - 1 - | - 1 - | 1 | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  | - /42.323 | - 139.925 | - / 103.269 | - 199.460 | - 17.500 | - /106.960 |
|  | Exhibits Schedule |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | Air Base Ground Defense |  |  | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - |
| P-3a | 1 / Base Physical Security Systems (Capability Improvement) |  |  | - 153.768 | - 179.674 | - 175.650 | - / 49.740 | - 1 - | - /481.047 |
| P-40a | Antiterrorism |  |  | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - |
| P-40a | General Skill Training |  |  | - 1 - | 1 - | - 1 - | - 1 - | 1 - | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  | - 169.052 | - 187.014 | - 183.120 | - 157.345 | - 1 - | - 1589.008 |

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

## Justification:

Air-Launched Cruise Missile (ALCM) PE 0101122F - P-40A
 surveillance systems required for nuclear warhead storage locations

Minuteman Squadrons PE 0101213F - P-40A
 systems required for nuclear warhead storage locations.

Air Base Ground Defense PE 0207588F - P-40A
 tactical/expeditionary equipment.

Antiterrorism PE 0208047F - P-40A
PE 0208047F: ANTI-TERRORISM

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
P-1 Line Item Number / Title:
834130 / Air Force Physical Security System 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: 0603287F, 0604287F

## Line Item MDAP/MAIS Code: N/A $\quad$ Item MDAP/MAIS Code(s): N/A

Tactical and Expeditionary Security Systems: FY17 funds antiterrorism activities for the Air Force (AF). Primarily, this line funds the AF's only perimeter installation access control system, the Defense Biometrics Identification System (DBIDS). It also funds mitigation efforts for AF vulnerabilities identified in AF and Joint higher headquarters inspections and Vulnerability Assessments (VAs), procurement of intrusion detection systems which greatly enhance the effectiveness of AF antiterrorism program efforts to detect, deter, and defend service members, civilian employees, family members, facilities, and other AF resources around the globe against terrorist attacks.

General Skill Training PE 0804731F - P-40A
No FY17 funding requested.

Efforts with funding starting in FY 2018 through FY 2021 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 2018 Cost Delta: 15.284 million
${ }^{(b)}$ FY 2019 Cost Delta: 7.340 million
${ }^{\text {(c) }}$ FY 2020 Cost Delta: 7.470 million
${ }^{\text {(d) }}$ FY 2021 Cost Delta: 7.605 million
${ }^{(e)}$ FY Total Cost Delta: 107.961 million

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 \text { / } 4$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834130 / Air Force Physical Security System |  |  |  |  |  |  |  | Aggregated Items Title: <br> Air-Launched Cruise Missile (ALCM) |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  | 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 <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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AIR LAUNCHED CRUISE MISSILE (ALCM) SECURITY SYSTEMS | A |  | - | - | - | - | - | 1.989 | - | - | 1.908 | - | - | 1.710 | - | - | - | - | - | 1.710 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.989 |  | - | 1.908 |  | - | 1.710 |  | - | - |  | - | 1.710 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 1.989 | - | - | 1.908 | - | - | 1.710 | - | - | - | - | - | 1.710 |
| Total |  |  | - | - | - | - | - | 1.989 | - | - | 1.908 | - | - | 1.710 | - | - | - | - | - | 1.710 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | 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) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AIR LAUNCHED CRUISE MISSILE (ALCM) SECURITY SYSTEMS | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 1.740 |  | - | 1.771 |  | - | 1.802 |  | - | 1.835 |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |

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

## UNCLASSIFIED



[^2]UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834130 / Air Force Physical Security System |  |  |  |  |  |  |  | Aggregated Items Title: Air Base Ground Defense |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Air Force Tactical Security Equipment | A |  | - | - | - | - | - | 5.429 | - | - | 15.598 | - | - | 4.647 | - | - | 7.500 | - |  | 12.147 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 5.429 |  | - | 15.598 |  | - | 4.647 |  | - | 7.500 |  | - | 12.147 |
| Subtotal: Uncategorized |  |  | - | - | $\cdot$ | - |  | 5.429 | - | - | 15.598 | - | - | 4.647 | - | - | 7.500 | - | - | 12.147 |
| Total |  |  | - | - | $\cdot$ | - | - | 5.429 | - | - | 15.598 | - | - | 4.647 | - |  | 7.500 | - | - | 12.147 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost $(\$ M)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Air Force Tactical Security Equipment | A |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 4.730 |  | - | 4.813 |  | - | 4.898 |  | - | 4.986 |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | $\cdot$ | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | $\cdot$ | - | - |
| Total |  |  | - | - | $\cdot$ | $\cdot$ | - | - | $\cdot$ | - | - | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | - | - | $\cdot$ | $\cdot$ | - |

[^3]Exhibit P-3a, Individual Modification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F/03/4
## Date: February 2016

## Modification Number / Title:

1 / Base Physical Security Systems

| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 35.727 | 26.157 | 75.849 | 84.482 | - | 84.482 | 53.768 | 79.674 | 75.650 | 49.740 | - | 481.047 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 35.727 | 26.157 | 75.849 | 84.482 | - | 84.482 | 53.768 | 79.674 | 75.650 | 49.740 | - | 481.047 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 35.727 | 26.157 | 75.849 | 84.482 | - | 84.482 | 53.768 | 79.674 | 75.650 | 49.740 | - | 481.047 |

(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:






 sensor platforms) and/or lighting systems (to support the surveillance/assessment functions).

We are currently restructuring IBDSS into discrete block upgrades.
Milestone/Development Status




Continuing COTS and Modified COTS for system equipment as it becomes obsolete.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 26.157 | 75.849 | 84.482 | - | 84.482 | 53.768 | 79.674 | 48.783 | 7.889 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | - | 26.867 | 41.851 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 26.157 | 75.849 | 84.482 | - | 84.482 | 53.768 | 79.674 | 75.650 | 49.740 |


| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 / Base Physical Security Systems |  |  |  |
| Models of Systems Affected: Bases | Modification Type: Capability Improvement ${ }^{\text {a }}$ Related RDT\& |  |  |  |  |  |  |  | \&E PEs: 06 | 603287F, 0 | 04287F |  |
|  | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { OcO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Financial Plan | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\left\lvert\, \begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}\right.$ | $\begin{array}{\|c\|} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Physical Security Systems |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Physical Security Systems:INSTALL KITS Group A (Active) | 4/23.347 | 4/19.724 | 9/69.147 | $6 / 77.413$ | - 1- | 6/77.413 | 6/46.205 | $10 / 70.519$ | 6/39.711 | 1 | -1- | 45/346.066 |
| Physical Security Systems:INSTALL KITS Group A (Guard) | 1/5.837 | 1 | - 1 - | - 1 - | - 1- | - 1- | - 1 - | - 1- | 4/26.867 | 6/41.851 | 1 - | 11/74.555 |
| Subtotal: Recurring | - /29.184 | - /19.724 | - /69.147 | - 177.413 | - $1-$ | - 177.413 | - /46.205 | - 170.519 | - 166.578 | - /41.851 | 1 - | - /420.621 |
| Subtotal: Physical Security Systems | - 129.184 | - /19.724 | - /69.147 | - 177.413 | - $1-$ | - 177.413 | - /46.205 | - 170.519 | - 166.578 | - /41.851 | - $1-$ | - /420.621 |
| Subtotal: Procurement, All Modification ltems | - 129.184 | - /19.724 | - /69.147 | - 177.413 | - 1. | - 177.413 | - /46.205 | - 170.519 | - 166.578 | - /41.851 | 1. | - /420.621 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| A\&AS | $0 \quad 11.570$ | - 11.986 | - 11.691 | - 11.734 | 1 | - 11.734 | - 11.777 | - 11.821 | - 11.867 | - 11.914 | 1 | - 114.360 |
| PMA - Contractor Services | $0 \quad 13.541$ | - 13.786 | - 12.970 | - 13.044 | $1-$ | - 13.044 | - 13.120 | - 13.198 | - 13.278 | - 13.360 | $1-$ | - 126.297 |
| PMA - Other Gov't Costs | $0 \quad 10.260$ | - 10.138 | - 10.392 | - 10.392 | -1- | - 10.392 | - 10.392 | - 10.392 | - 10.392 | - 10.392 | -1- | - 12.750 |
| ICS-Labor | $0 \quad 11.172$ | - 10.523 | - 11.649 | - 11.899 | - 1- | - 11.899 | - 12.274 | - 13.744 | - 13.535 | - 12.223 | $1-$ | - 117.019 |
| Subtotal: Support | $0 \quad 16.543$ | - 16.433 | - 16.702 | - 17.069 | - $1 \cdot$ | - 17.069 | - 17.563 | - 19.155 | - 19.072 | - 17.889 | 1 | - 160.426 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Physical Security Systems | 5/0.000 | 41 - | 91 - | 61 - | - | 61 - | 61 - | 101 - | 101 - | 61 - | 1 - | 561 - |
| Subtotal: Installation | 5/0.000 | 4/ - | 9/- | 6/ - | - 1 - | 61 - | 6/ - | 101 - | $10 /$ - | 6/ - | - / - | $56 /-$ |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 35.727 | 26.157 | 75.849 | 84.482 | - | 84.482 | 53.768 | 79.674 | 75.650 | 49.740 | - | 481.047 |

## UNCLASSIFIED



## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Antiterrorism |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834130 / Air Force Physical Security System |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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) | Qty (Each) | 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tactical and <br> Expeditionary Security Sysytems | A |  | - | - | 6.596 | - | - | 3.000 | - | - | 9.100 | - | - | 7.891 | - | - | - | - |  | 7.891 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 3.000 |  | - | 9.100 |  | - | 7.891 |  | - | - |  | - | 7.891 |
| Subtotal: Uncategorized |  |  | - | - | 6.596 | - | - | 3.000 | - | - | 9.100 | - | - | 7.891 | - | - | - | - |  | 7.891 |
| Total |  |  | - | - | 6.596 | - | - | 3.000 | - | - | 9.100 | - | - | 7.891 | - | - | - | - |  | 7.891 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | 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 <br> (\$M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tactical and Expeditionary Security Sysytems | A |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 8.070 |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | $\cdot$ | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |

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 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: General Skill Training |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834130 / Air Force Physical Security System |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ 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 (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| General Skills Training Equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| General Skills <br> Training Equipment | A |  | - | - | - | - | - | - 2.500 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.500 |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: General Skills Training Equipment |  |  | - | - | - | - | - | - 2.500 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | - | 2.500 | - | - | $\cdot$ | - | - | $\cdot$ | - | $\cdot$ | $\cdot$ | - | - | $\cdot$ |

## 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: 0207429F, 0604735F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 59.634 | 33.606 | 34.850 | - | 34.850 | $130.677^{\text {(a) }}$ | $150.192^{\text {(b) }}$ | $192.678{ }^{\text {(c) }}$ | $152.259{ }^{\text {(d) }}$ | - | $753.896{ }^{(\mathrm{e})}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 59.634 | 33.606 | 34.850 | - | 34.850 | 130.677 | 150.192 | 192.678 | 152.259 | - | 753.896 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 59.634 | 33.606 | 34.850 | - | 34.850 | 130.677 | 150.192 | 192.678 | 152.259 | - | 753.896 |
| (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 0207429F COMBAT TRAINING RANGE EQUIPMENT



 purchase services applicable to the acquisition, site activation and implementation of the ground system including range site surveys, installation and training.



 delivery and aircrew training for airborne laser designators






## 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: 0207429F, 0604735F

## Line Item MDAP/MAIS Code: N/A $\quad$ Item MDAP/MAIS Code(s): N/A


 associated mission support equipment/software.

PE 0305116F AERIAL TARGETS




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

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 14 | 3 | 1 | - | 1 | - | - | - | - |
|  | Total Obligation Authority | 58.984 | 31.172 | 34.850 | - | 34.850 | 40.594 | 11.542 | 1.968 | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.650 | 2.434 | - | - | - | 12.844 | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 14 | 3 | 1 | - | 1 | - | - | - | - |
|  | Total Obligation Authority | 59.634 | 33.606 | 34.850 | - | 34.850 | 53.438 | 11.542 | 1.968 | - |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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: 0207429F, 0604735F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit | Title* |  | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | JTE |  | B | - 1 - | 7/44.730 | $3 / 22.955$ | 1/3.615 | 1 | 1/3.615 |
| P-5 | Range Equipment |  | A | 1 - | - 19.850 | - 1 | - 11.371 | - 1 - | - /1.371 |
| P-5 | Range Communications |  | A | 1 | - 1 | - 1 - | - / 25.964 | - 1 - | - 125.964 |
| P-40a | Combat Training Range Equipment |  |  | - 10.000 | - 12.000 | - / 10.651 | - 13.900 | - 1 - | - 13.900 |
| P-40a | Aerial Targets |  |  | - 1 - | - 13.054 | - $/$ - | 1 | - 1 - | 1 |
| P-40 | Total Gross/Weapon System Cost |  |  | 1 - | - 159.634 | - 133.606 | - 134.850 | - 1 - | - 134.850 |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* |  | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | JTE |  | B | - 1 - | - 1 - | - 1 | - 1 - | - 1 | - 1 - |
| P-5 | Range Equipment |  | A | - 1 | - 1 | - 1 - | - 1 | - 1 - | 1 |
| P-5 | Range Communications |  | A | 1 | 1 | - 1 - | 1 | - 1 - | - 1 - |
| P-40a | Combat Training Range Equipment |  |  | - 18.484 | - / 10.326 | - 1 - | - 1 - | - 1 - | - / 35.361 |
| P-40a | Aerial Targets |  |  | - 1 | - 1 - | 1 | - 1 - | - 1 - | 1 |
| P-40 | Total Gross/Weapon System Cost |  |  | - / 130.677 | - / 150.192 | - / 192.678 | - / 152.259 | - 1. | - 1753.896 |

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

## Justification:

This program, RIMCOM P-5, is a new start.
JOINT THREAT EMITTER (JTE): FY17 funding requested is to procure additional JTE fixed command and control unit and the associated equipment.



RANGE EQUIPMENT: FY17 funding requested to replace equipment that is no longer logistically supportable.
LEGACY SYSTEMS: FY17 funding requested to modify UMTEs to replace the obsolete electronic attack receivers with the common electronic attack receiver (CEAR).
PE0305116F AERIAL TARGETS
TARGET CONTROL SYSTEMS (TCS): No FY17 funding requested.
 follows:

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Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F/03/4ID Code (A=Service Ready, B=Not Service Ready) : B

Date: February 2016

## Item Number / Title [DODIC]:

- I JTE


| Hardware - JTE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Joint Threat Emitter (JTE) Units ${ }^{(\dagger)}$ | - | - | - | 6.737 | 6 | 40.422 | 9.747 | 2 | 19.494 | - | - | - | - | - | - | - | - | - |
| JTE Command Control Unit ${ }^{(\dagger)}$ | - | - | - | 1.460 | 1 | 1.460 | 1.306 | 1 | 1.306 | 1.490 | 1 | 1.490 | - | - | - | 1.490 | 1 | 1.490 |
| Subtotal: Recurring Cost | - | - | - | - | - | 41.882 | - | - | 20.800 | - | - | 1.490 | - | - | - | - | - | 1.490 |
| Subtotal: Hardware - JTE Cost | - | - | - | - | - | 41.882 | - | - | 20.800 | - | - | 1.490 | - | - | - | - | - | 1.490 |
| Support - JTE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A\&AS (PMA) | - | - | - | - | - | 0.747 | - | - | 0.750 | - | - | 0.750 | - | - | - | - | - | 0.750 |
| A\&AS (DMS) | - | - | - | - | - | 1.100 | - | - | 1.100 | - | - | 1.065 | - | - | - | - | - | 1.065 |
| PMA | - | - | - | - | - | 0.100 | - | - | 0.100 | - | - | 0.100 | - | - | - | - | - | 0.100 |
| Support | - | - | - | - | - | 0.901 | - | - | 0.205 | - | - | 0.210 | - | - | - | - | - | 0.210 |
| Subtotal: Support - JTE Cost | - | - | - | - | - | 2.848 | - | - | 2.155 | - | - | 2.125 | - | - | - | - | - | 2.125 |
| Gross/Weapon System Cost | - | - | - | 6.390 | 7 | 44.730 | 7.652 | 3 | 22.955 | 3.615 | 1 | 3.615 | - | - | - | 3.615 | 1 | 3.615 |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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 <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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Hardware - JTE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED


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

UNCLASSIFIED

| Exhibit P-5a, Procurem | Hi | , | lanning: PB 2017 A | rce |  |  |  | Date | February | 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget 3080F / 03/ 4 |  |  | Sub Activity: | 1 Line Item Num 4190 / Combat | er / Title: raining Ranges |  |  | Item $-I J T I$ | Number / | Title | DODIC]: |  |
| 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 | Qty (Each) | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Joint Threat Emitter (JTE) Units |  | 2015 | Northrop Grumman Amherst Systems / Buffalo, NY | C/FFP | AFLCMC Hill AFB | Oct 2016 | Feb 2018 | 6 | 6.737 | N | Sep 2016 |  |
| Joint Threat Emitter (JTE) Units |  | 2016 | Northrop Grumman Amherst Systems / Buffalo, NY | C/FFP | AFLCMC Hill AFB | Oct 2017 | Feb 2019 | 2 | 9.747 | N | Sep 2016 |  |
| JTE Command Control Unit |  | 2015 | Northrop Grumman Amherst Systems / Buffalo, NY | C/FFP | AFLCMC Hill AFB | Oct 2016 | Feb 2018 | 1 | 1.460 | N | Sep 2016 |  |
| JTE Command Control Unit |  | 2016 | Northrop Grumman Amherst Systems / Buffalo, NY | C/FFP | AFLCMC Hill AFB | Feb 2017 | Sep 2018 | 1 | 1.306 | N | Sep 2016 |  |
| JTE Command Control Unit |  | 2017 | Northrop Grumman Amherst Systems / Buffalo, NY | C/FFP | AFLCMC Hill AFB | Oct 2017 | Feb 2019 | 1 | 1.490 | N |  |  |

## UNCLASSIFIED



## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3080F / 03 / 4
## P-1 Line Item Number / Title: 834190 / Combat Training Ranges

Date: February 2016

## Item Number / Title [DODIC]:

-/ Range Communications

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

| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 25.964 | - | 25.964 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | - | 25.964 | - | 25.964 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 25.964 | - | 25.964 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

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

|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Hardware - RIMCOM Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Radios | - | - | - | - | - | - | - | - | - | 0.049 | 132 | 6.473 | - | - | - | 0.049 | 132 | 6.473 |
| Datalink | - | - | - | - | - | - | - | - | - | 0.125 | 2 | 0.250 | - | - | - | 0.125 | 2 | 0.250 |
| IADS Networks | - | - | - | - | - | - | - | - | - | 1.000 | 4 | 4.000 | - | - | - | 1.000 | 4 | 4.000 |
| Fiber Optics | - | - | - | - | - | - | - | - | - | 0.234 | 7 | 1.637 | - | - | - | 0.234 | 7 | 1.637 |
| Datalink/EW Jammers | - | - | - | - | - | - | - | - | - | 1.400 | 5 | 7.000 | - | - | - | 1.400 | 5 | 7.000 |
| Test Calibration Equpment | - | - | - | - | - | - | - | - | - | 0.776 | 8 | 6.208 | - | - | - | 0.776 | 8 | 6.208 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 25.568 | - | - | - | - | - | 25.568 |
| Subtotal: Hardware RIMCOM Cost | - | - | - | - | - | - | - | - | - | - | - | 25.568 | - | - | - | - | - | 25.568 |
| Support - RIMCOM Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A\&AS | - | - | - | - | - | - | - | - | - | - | - | 0.300 | - | - | - | - | - | 0.300 |
| PMA | - | - | - | - | - | - | - | - | - | - | - | 0.096 | - | - | - | - | - | 0.096 |
| Subtotal: Support-RIMCOM Cost | - | - | - | - | - | - | - | - | - | - | - | 0.396 | - | - | - | - | - | 0.396 |
| Gross/Weapon System Cost | - | - | - | - | - | - | - | - | - | - | - | 25.964 | - | - | - | - | - | 25.964 |


|  | Secondary Distribution | FY 2015 | FY 2016 | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantit |  |  |  |  |  |

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## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834190 / Combat Training Ranges |  |  |  |  |  |  |  | Aggregated Modification Items Title: Combat Training Range Equipment |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| CTR01 / Combat Training Ranges Joint Threat Emitter |  |  | - | - | - | - | - | 2.000 | - | - | 3.651 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.350 |  | - | 1.217 |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | 0.650 |  | - | 2.434 |  | - | - |  | - | - |  | - | - |
| CTR02 / Combat Training Ranges UMTE |  |  | - | - | - | - | - | - | - | - | 7.000 | - | - | 3.900 | - |  | - | - |  | 3.900 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 7.000 |  | - | 3.900 |  | - | - |  | - | 3.900 |
| CTR03 / Mini-Mute Mod (CEAR) |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - |  | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | 0.000 | - | - | 2.000 | - | - | 10.651 | - | - | 3.900 | - | - | - | $\cdot$ | - | 3.900 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | 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 (\$ 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) |
| CTR01 / Combat Training Ranges Joint Threat Emitter |  |  | - | - | 3.184 | - | - | 3.326 | - | - | - | - | - | - | - | - | - | - | - | 12.161 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 3.184 |  | - | 3.326 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| CTR02 / Combat Training Ranges UMTE |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10.900 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| CTR03 / Mini-Mute Mod (CEAR) |  |  | - | - | 5.300 | - | - | 7.000 | - | - | - | - | - | - | - | - | - | - | - | 12.300 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 5.300 |  | - | 7.000 |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | 8.484 | $\cdot$ | - | 10.326 | - | - | - | $\cdot$ | - | - | - | $\cdot$ | - | - | $\cdot$ | 35.361 |

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

Modification Information:

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  | Date: February 2016 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget 3080F / 03/4 | Activity / Budget Sub Activity: | P-1 Line Item Number / Title: 834190 / Combat Training Ranges | Aggregated Modification Items Title: Combat Training Range Equipment |
| Item Number / Title | Models of Systems Affected | Modification Type |  |
| CTR01 / Combat Training Ranges Joint Threat Emitter | Joint Threat Emitter | Service Life Extension |  |
| CTRO2 / Combat Training Ranges UMTE | Combat Training Range | Capability Improvement |  |
| CTR03 / Mini-Mute Mod (CEAR) | Combat Training Range | Capability Improvement |  |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Aerial Targets |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834190 / Combat Training Ranges |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 (\$ 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) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Data Link Systemreplacement | A |  | - | - | - | 0.436 | 7 | 3.054 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 7 | 3.054 |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 3.054 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | $\cdot$ | 3.054 | - | - | - | - | - | - | - | - | - | $\cdot$ | - | - |

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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

| ID Code (A=Service Ready, B=Not Service Ready): B |  |  | Program Elements for Code B Items: 0303131F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 1.457 | 5.232 | 198.925 | - | 198.925 | 130.188 | 40.486 | 62.584 | 76.227 | - | 515.099 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 1.457 | 5.232 | 198.925 | - | 198.925 | 130.188 | 40.486 | 62.584 | 76.227 | - | 515.099 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 1.457 | 5.232 | 198.925 | - | 198.925 | 130.188 | 40.486 | 62.584 | 76.227 | - | 515.099 |
| (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, 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 will be conducted in FY 16 and FY 17 in advance of the Milestone C decision in 2QFY17.

Global ASNT Inc 2 delivers an Aircrew Alerting System (AAS) consisting of personal and general alerting equipment, and High Frequency (HF) and Ultra High Frequency (UHF) capabilities. Increment 2 replaces inadequate, unsustainable Electromagnetic Pulse Hardened Dispersal Communication (EHDC) systems and Aircrew Alerting Communications Electromagnetic Pulse (AACE) systems. Procurement funding begins in FY20 to perform pre-production activities in support of Milestone C decision in 1QFY21.

Global ASNT Inc 3 is planned to deliver a Very Low Frequency (VLF)/Low Frequency (LF) receive capability.
Common Very Low Frequency (VLF)/Low Frequency (LF) Receiver (CVR) Increment 2 (CVR Inc 2) will deliver a survivable, beyond-line-of-sight path for Emergency Action Message (EAM) reception. The intent of CVR Inc 2 is to develop and produce a common VLF/LF receiver with an interoperable waveform for future platform integration to include airborne and ground based nodes and to improve system performance and reduce supportability costs through commonality. Procurement funding begins in FY20 to perform pre-production activities in support of a Milestone C decision in 1QFY21.

Funding for this exhibit is contained in PE 0303131F.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 Communications Network |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): B |  | Program Elements for Code B Items: 0303131F |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \mathrm{CD} \end{aligned}$ | 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 Communications Network | P-5a | B | - 1- | - 11.457 | - 15.232 | - /198.925 | - 1- | - /198.925 |
| P-40 | Total Gross/Weapon System Cost |  |  | 1 | - 11.457 | - 15.232 | - /198.925 | - 1 - | - /198.925 |
| *Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. |  |  |  |  |  |  |  |  |  |
| Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |
| Justification: <br> Global ASNT Increment 1 FY2017 funds will support production activities including preparation and planning for depot standup, engineering start-up, schedule preparation and planning, production configuration control, production roadmap activities, and procurement of sixty (60) production kits. |  |  |  |  |  |  |  |  |  |


| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834210 / Minimum Essential Emergency Communications Network |  |  |  |  |  |  |  | Item Number / Title [DODIC]: - / Minimum Essential Emergency Communications Network |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2015 |  | FY 2016 |  | FY 2017 Base |  |  | FY 2017 OCO |  | FY 2017 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  |  |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | - |  | 1.457 |  | 5.23 |  |  | 8.925 |  | - |  | 198.925 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  |  |
| Net Procurement (P-1) (\$ in Milions) |  |  |  |  |  |  | - |  | 1.457 |  | 5.23 |  |  | 8.925 |  | - |  | 198.925 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | - |  | 1.457 |  | 5.23 |  |  | 3.925 |  | - |  | 198.925 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  | - |  | - |  | - |  | - |  |  | - |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | 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) | 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) |
| Hardware - Minimum Essential Emergency Comm N Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Global ASNT <br> Terminals ${ }^{(\dagger)}$ | - | - | - | - | - | - - | - | - | - | 3.276 | 60 | 196.558 | - |  | - - | 3.276 | 60 | 196.558 |
| Subtotal: Recurring Cost | - | - | - | - | - | - - | - | - | - | - | - | 196.558 | - |  | - - | - | - | 196.558 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Global ASNT Terminals Logistics/ Sustainment Economic Analysis | - | - | - | - | - | 0.723 | - | - | 0.200 | - | - | - | - |  | - - | - | - |  |
| Subtotal: Non Recurring Cost | - | - | - | - | - | 0.723 | - | - | 0.200 | - | - | - | - |  | - - | - | - | - |
| Subtotal: Hardware <br> - Minimum Essential Emergency Comm N Cost | - | - | - | - | - | - 0.723 | - | - | 0.200 | - | - | 196.558 | - |  | - | - | - | 196.558 |
| Support - Minimum Essential Emergency Communication Network (MEECN) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Direct Mission Suppt (DMS) | - | - | - | . | - | 0.711 | - | - | 4.512 | - | - | 1.628 | - |  | - - | - | - | 1.628 |
| Program Management Administrative (PMA) | - | - | - | - | - | 0.023 | - | - | 0.520 | - | - | 0.739 | - |  | - | - | - | 0.739 |
| Subtotal: Support - Minimum Essential Emergency Communication Network (MEECN) Cost | - | - | - | - | - | - 0.734 | - | - | 5.032 | - | - | 2.367 | - |  | - | - | - | 2.367 |

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| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  | P-1 Line Item Number / Title: 834210 / Minimum Essential Emergency Communications Network |  |  |  |  |  |  |  | Item Number / Title [DODIC]: - / Minimum Essential Emergency Communications Network |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Cost Elements | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | 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 <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) |
| Gross/Weapon System Cost | . | - | . | - | - | 1.457 | - | - | 5.232 | - | - | 198.925 | - | - | - | - |  | 198.925 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  | P-1 Line Item Number / Title: 834210 / Minimum Essential Emergency Communications Network |  |  |  | Item Number / Title [DODIC]: <br> - / Minimum Essential Emergency Communications Network |  |  |  |  |
| 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 |
| Global ASNT Terminals |  | 2017 | Raytheon / Largo, FL | C/FFP | AFLCMC Hanscom AFB | Mar 2017 | Apr 2018 | 60 | 3.276 | N | Feb 2017 |  |

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| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> 834240 / Wide Area Surveillance (WAS) |  |  |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready): |  |  | Program Elements for Code B Items: 0604445F |  |  |  |  | Other Related Program Elements: 0604445F |  |  |  |  |
| Line Item MDAP/MAIS Code: 519 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | - | - | 6.943 | - | 6.943 | - | - | - | - | - | 6.943 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | - | - | 6.943 | - | 6.943 | - | - | - | - | - | 6.943 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | - | - | 6.943 | - | 6.943 | - | - | - | - | - | 6.943 |
| (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:

Wide Area Surveillance (WAS) consists of sensor programs. WAS will provide warfighters the ability to detect airborne threats.
Some aspects of the WAS program are classified and will be provided on a need-to-know basis.
Funding for this exhibit contained in PE 0604445F, Wide Area Surveillance.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 834240 / Wide Area Surveillance (WAS) |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): B |  |  | Program Elements for Code B Items: 0604445 F |  |  |  | Other Related Program Elements: 0604445F |  |  |  |
| Line Item MDAP/MAIS Code: 519 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \hline \end{array}$ | 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 | Total Gross/Weapon System Cost |  |  |  | - 10.000 | - 1- |  | - 16.943 | - 1 | - 16.943 |
| P-40 |  |  |  |  | - 10.000 | 1. | - 1. | - 16.943 | 1. | 16.943 |
| Exhibits Schedule |  |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \\ & \hline \end{aligned}$ | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | Wide Area Surveillance |  |  | B | - 1 - | - 1 | - 1 - | - 1 - | - 1 | - 16.943 |
| *Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |
| Justification: |  |  |  |  |  |  |  |  |  |  |
| This program, PE 0604445F P-5, is a new start. |  |  |  |  |  |  |  |  |  |  |

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F/03/4ID Code (A=Serice Ready, $B=$ Not Service Ready) : B

P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS)

Date: February 2016

## Item Number / Title [DODIC]:

- / Wide Area Surveillance


| Hardware - Wide Area Surveillance Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WAS recuring cost | - | - | - | - | - | - | - | - | - | - | - | 5.443 | - | - | - | - | - | 5.443 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 5.443 | - | - | - | - | - | 5.443 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA contractor services | - | - | - | - | - | - | - | - | - | - | - | 1.500 | - | - | - | - | - | 1.500 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 1.500 | - | - | - | - | - | 1.500 |
| Subtotal: Hardware - Wide Area Surveillance Cost | - | - | - | - | - | - | - | - | - | - | - | 6.943 | - | - | - | - | - | 6.943 |
| Gross/Weapon System Cost | - | - | 0.000 | - | - | - | - | - | - | - | - | 6.943 | - | - | - | - | - | 6.943 |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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 (\$ 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) |
| Hardware - Wide Area Surveillance Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WAS recuring cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.443 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.443 |

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| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <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) |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Cost Elements | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) |
| PMA contractor services | - | - | . | - | - | . | - | - | - | - | - | - | - | - | - | - | - | 1.500 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.500 |
| Subtotal: Hardware - Wide Area Surveillance Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.943 |
| Gross/Weapon System Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.943 |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 12.408 | 7.453 | 19.580 | 0.620 | 20.200 | 19.521 | 18.349 | 18.366 | 19.879 | - | 116.176 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 12.408 | 7.453 | 19.580 | 0.620 | 20.200 | 19.521 | 18.349 | 18.366 | 19.879 | - | 116.176 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 12.408 | 7.453 | 19.580 | 0.620 | 20.200 | 19.521 | 18.349 | 18.366 | 19.879 | - | 116.176 |
| (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 FY17 funding request was reduced by $\$ .307 \mathrm{M}$ to account for the availability of prior year execution balances.
National Technical Nuclear Forensics PE 0207573F - P-40A
 evaluation to support nuclear event attribution. Funding also includes procurement of technical data and any required follow on system support.

Electronic Warfare Integrated Reprogramming (EWIR) PE 0207439F - 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 PE0207439F.

AF Offensive Cyberspace Operations PE 0208087F - P-40A
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 Operations (OCO) to include but not limited to USAF OCO units, the Cyber Mission Forces, 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 upgrade and modification of the USAF operated cyber test and training range, operated by the 346 th Test Squadron under the 688th Cyber Wing.

Detailed information on AF Offensive Cyber Operations remains classified and will be provided on a need-to-know basis. For further information, please contact AF/A2. 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.

AF Defensive Cyberspace Operations PE 0208088F - 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 | Other Related Program Elements: N/A |
| :--- | :--- | :--- | :--- |

## Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A

 operations.

FY2015 funding totals include $\$ 0.90 \mathrm{M}$ appropriated for Overseas Contingency Operations.
Intel Data Applications PE 0208288F - P-40A
 Tool Development.
 installations. It also provides limited criticality assessments of C3 elements.


 exploitation and dissemination of intercepted ELINT from US and allied systems.
 sensors/platforms were originally designed.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

## 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: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A It |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | - 1 | - 1 | - 15.852 | - 1 | - 15.852 |
| P-40a | Electronic Warfare Integrated Reprogramming (EWIR) |  |  | - 1 - | - / 1.301 | - 10.902 | - /1.581 | 1 | - / 1.581 |
| P-40a | AF Offensive Cyberspace Operations |  |  | - 1 - | - 19.894 | - 16.332 | - / 11.774 | - | - / 11.774 |
| P-40a | AF Defensive Cyberspace Operations |  |  | 1 | - 10.900 | - 1 - | 1 | - 10.620 | - 10.620 |
| P-40a | Intel Data Applications |  |  | 1 | - 10.313 | - 10.219 | - 10.373 | - 1 | - 10.373 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1 - | - /12.408 | - 17.453 | - / 19.580 | - 10.620 | - 120.200 |

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

## Justification:

This program, PE 0207573F P-40A Item Nuclear Forensics - Prompt Diagnostics, is a new start.
National Technical Nuclear Forensics PE 0207573F - P-40A
 includes procurement of technical data and any required follow on system support.

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

AF Offensive Cyberspace Operations PE 0208087F - P-40A
 provided on a need-to-know basis. For further information, please contact AF/A2.

AF Defensive Cyberspace Operations PE 0208088F - P-40A
FY17 OCO procures high-value, mission Operation Enduring Freedom (OEF) networks and systems to assure unobstructed successful operations.
Intel Data Applications PE 0208288F - P-40A
 indications/warning, intrusion analysis and threat signature development.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834320 / C3 Countermeasures |  |  |  |  |  |  |  | Aggregated Items Title: <br> National Technical Nuclear Forensics |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | 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 <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 (\$ M) |
| National Technical Nuclear Forensics |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nuclear Forensics Prompt Diagnostics | A |  | - | - | - | - |  | - - | - | - | - | - | - | 5.852 | - | - | - | - |  | 5.852 |
| Subtotal: National Technical Nuclear Forensics |  |  | - | - | - | - |  | - - | - | - | - | - | - | 5.852 | - | - | - | - |  | 5.85 |
| Total |  |  | - | - | - | - |  | - | $\cdot$ | - | - | - | - | 5.852 | - | - | - | - | - | 5.852 |
| 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 terrestrially-based sensors and communications for prompt output signal detection and nuclear debris collection analysis and evaluation to support nuclear event attribution. Funding also includes procurement of technical data and any required follow on system support. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Electronic Warfare Integrated Reprogramming (EWIR) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834320 / C3 Countermeasures |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|c\|} \mathrm{ID} \\ \mathrm{CD} \end{array}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$ M) | $\underset{(\$ M)}{\text { Unit Cost }}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Client PCs | A |  | - | - | - | 0.225 | 1 | 0.225 | 0.010 | 1 | 0.010 | 0.200 | 1 | 0.200 | - | - | - | 0.200 | 1 | 0.200 |
| Computer Server | A |  | - | - | - | - | - | - | 0.220 | 1 | 0.220 | 1.121 | 1 | 1.121 | - | - | - | 1.121 | 1 | 1.121 |
| Data Storage System | A |  | - | - | - | 0.876 | 1 | 0.876 | 0.472 | 1 | 0.472 | 0.150 | 1 | 0.150 | - | - | - | 0.150 | 1 | 0.150 |
| Network Infrastructure | A |  | - | - | - | 0.100 | 1 | 0.100 | 0.070 | 1 | 0.070 | 0.060 | 1 | 0.060 | - | - | - | 0.060 | 1 | 0.060 |
| Tape Backup System | A |  | - | - | - | 0.100 | 1 | 0.100 | 0.130 | 1 | 0.130 | 0.050 | 1 | 0.050 | - | - | - | 0.050 | 1 | 0.050 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 1.301 | - | - | 0.902 | - | - | 1.581 | - | - | - | - | - | 1.581 |
| Total |  |  | - | - | - | - | - | 1.301 | - | - | 0.902 | - | - | 1.581 | - | - | - | - | - | 1.581 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834320 / C3 Countermeasures |  |  |  |  |  |  | Aggregated Items Title: <br> AF Offensive Cyberspace Operations |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 $\qquad$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OFFENSIVE CYBER OPERATIONS Support | A |  | - | - | - | - | - | 9.894 | - | - | 6.332 | - | - | 11.774 | - | - | - | - | - | 11.774 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 9.894 | - | - | 6.332 | - | - | 11.774 | - | - | - | - | - | 11.774 |
| Total |  |  | - | - | - | - | - | 9.894 | - | - | 6.332 | - | - | 11.774 | - | - | - | - | - | 11.774 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 \text { / } 4$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834320 / C3 Countermeasures |  |  |  |  |  |  |  | Aggregated Items Title: <br> AF Defensive Cyberspace Operations |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\left\|\begin{array}{l\|} \text { ID } \\ \text { CD } \end{array}\right\|$ | $\begin{array}{\|l} \text { MDAP/ } \\ \text { MAIS } \\ \text { code } \end{array}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Defensive Cyber Operations Support | A |  | - | - | - | - | - | 0.900 | - | - | - | - | - | - | - | - | 0.620 | - | - | 0.620 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.900 | - | - | - | - | - | - | - | - | 0.620 | - | - | 0.620 |
| Total |  |  | - | - |  | - | - | 0.900 | - | - | - | - | - | - | - | - | 0.620 | - | - | 0.620 |

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 2016 <br> Aggregated Items Title: Intel Data Applications |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834320 / C3 Countermeasures |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost $(\$ \mathrm{M})$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | $\left\lvert\, \begin{gathered} \text { Unit Cost } \\ (S M) \end{gathered}\right.$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PE 0208288F INTEL DATA APPLICATIONS | A |  | - | - | - | - | - | 0.313 | - | - | 0.219 | - | - | 0.373 | - | - | - | - | - | 0.373 |
| Subtotal: Uncategoriz |  |  | - | - | - | - | - | 0.313 | - | - | 0.219 | - | - | 0.373 | - | - | - | - | - | 0.373 |
| Total |  |  | - |  | - | - | - | 0.313 | - | - | 0.219 | - | - | 0.373 | - | - | - | - | - | 0.373 |

## 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: 0708012F, 0708610F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 221 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 9.398 | 3.670 | 15.015 | 1.743 | - | 1.743 | 7.193 | 7.246 | 11.341 | 13.222 | - | 68.828 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 9.398 | 3.670 | 15.015 | 1.743 | - | 1.743 | 7.193 | 7.246 | 11.341 | 13.222 | - | 68.828 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 9.398 | 3.670 | 15.015 | 1.743 | - | 1.743 | 7.193 | 7.246 | 11.341 | 13.222 | - | 68.828 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:




 capabilities through GCSS-AF.

PE 0303141F GLOBAL COMBAT SUPPORT SYSTEM






 licenses, and engineering support.

Funding for this exhibit contained in PE 0303141F.
PE 0708012F LOGISTICS SUPPORT ACTIVITY




## 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): A | Program Elements for Code B Items: N/A |  |
| :---: | :---: | :---: |
|  |  |  |

## Line Item MDAP/MAIS Code: 221 Item MDAP/MAIS Code(s): N/A

 and standard CMOS architectures.

Funding for this exhibit contained in PE 0708012F
PE 0708610F LOGISTICS INFORMATION TECHNOLOGY (LOGIT)

 OPAF funding will be used for capital equipment replacement to include servers and will also be used to purchase multi-year software licenses.





Funding for this exhibit contained in PE 0708610F.
PE 0901538 FINANCIAL MGMT INFO SYS DEVELOPMENT




 Clinger-Cohen Act, Business Enterprise Architecture (BEA), and integrates into Global Combat Support System-Air Force (GCSS-AF).

In 2014, DEAMS Inc 2 activities were incorporated into DEAMS Inc 1 to expedite deployment to operational locations and users.

Funding for this exhibit contained in PE 0901538F

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

## 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: 0708012F, 0708610F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 221 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \\ & \hline \end{aligned}$ | 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 | Global Combat Support System |  |  | - 13.038 | 1 | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a | Logistics Support Activities |  |  | - 1 - | - 10.696 | - 10.796 | - 10.819 | - 1 - | - 10.819 |
| P-40a | Logistics Information Technology (LOGIT) |  |  | - 1 - | - 12.974 | - / 14.219 | - 10.924 | - 1 - | - 10.924 |
| P-40a | Financial Management Information Systems Development |  |  | - 16.360 | - 1 | - 1 - | - 1 | 1 | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  | - 19.398 | - 13.670 | - / 15.015 | - 11.743 | - 1 - | - 11.743 |

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

## Justification:

PE 0303141F GLOBAL COMBAT SUPPORT SYSTEM
No FY16 funding requested
PE 0708012F LOGISTICS SUPPORT ACTIVITY



 and standard CMOS architectures.

PE 0708012F LOGISTICS SUPPORT ACTIVITY

 replacement mitigates increased capability demands on older platforms and supports deployable CMOS hardware and associated Automatic Identification Technology (AIT).

PE 0708610F LOGISTICS INFORMATION TECHNOLOGY (LOGIT)

 OPAF funding will be used for capital equipment replacement to include servers and will also be used to purchase multi-year software licenses

PE 0901538F FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT
No FY 16 funding requested.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Global Combat Support System |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834430 / GCSS-AF Fos |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Years |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \\ & \hline \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GLOBAL COMBAT SUPPORT SYSTEM | A |  | 3.038 | 1 | 3.038 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | 3.038 | - | - | - - | - | - | - | - | - | - | - | - | - | $\cdot$ | - | - |
| Total |  |  | - | - | 3.038 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |

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

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834430 / GCSS-AF Fos |  |  |  |  |  |  |  | Aggregated Items Title: Logistics Support Activities |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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 <br> Cost <br> (\$ M) | Unit Cost <br> (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CARGO MOVEMENT operations SYSTEM - Hand Held Terminals (HHTS) with peripheral devices | A |  | - | - | - | 0.002 | 347 | 0.696 | 0.002 | 398 | 0.796 | 0.003 | 273 | 0.819 | - | - | - | 0.003 | 273 | 0.819 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.696 | - | - | 0.796 | - | - | 0.819 | - | - | - | - | - | 0.819 |
| Total |  |  | - | - | - | - | - | 0.696 | - | - | 0.796 | - | - | 0.819 | - | - | - | - | - | 0.819 |

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 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  | P-1 Line Item Number / Title: 834430 / GCSS-AF Fos |  |  |  |  |  |  |  | Aggregated Items Title: <br> Financial Management Information Systems Development |  |  |  |  |
|  |  |  | ior Yea |  |  | Y 2015 |  |  | Y 2016 |  |  | 2017 Ba |  |  | 2017 O |  |  | 2017 T |  |
| Item Number / Title [DODIC] |  MDAP/ <br> ID MAIs <br> CD 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FINANCIAL MANAGEMENT INFORMATION SYSTEM | A | - | - | 6.360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  | - | - | 6.360 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  | - | - | 6.360 | - | - | . | - | - | - | - | - | - | - | - | - | - | - | - |

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 2017 Air Force
Date: February 2016

## 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

Appropriation / Budget Activity / Budget Sub Activity: Equip / BSA 6: Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): B |  |  | Program Elements for Code B Items: 0901538F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2017$ <br> Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 4.298 | 4.755 | - | - | - | - | - | - | - | - | 9.053 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 4.298 | 4.755 | - | - | - | - | - | - | - | - | 9.053 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 4.298 | 4.755 | - | - | - | - | - | - | - | - | 9.053 |
| (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:

Defense Enterprise Accounting and Management System Increment 1 (DEAMS Inc 1).
 Systems (GCSS-AF FOS) to WSC 834470 DEAMS. Prior to FY 2015, DEAMS OPAF funding was shown in WSC 834430 , GCSS-AF FOS.



 Air Force (GCSS-AF). When fully deployed, DEAMS will bring the Air Force in compliance with the Financial Improvement and Audit Readiness (FIAR) requirement in the 2010 NDAA.

DEAMS Inc 1 is planned as an eight-release program:
Release 1 - Air Mobility Command (AMC) without Transportation Working Capital Funds (TWCF)
Release 2 - AMC with TWCF, Defense Finance and Accounting Service (DFAS) Rome
Release 3 - Air Combat Command (ACC), Air Force Global Strike Command (AFGSC), Air Education and Training Command (AETC)
Release 4 - Air Force Reserve Command (AFRC), and Air National Guard (ANG) Geographically Separated Units (GSUs) to include DFAS Limestone, Air Force District of Washington (AFDW), Air Force Special Operations Command (AFSOC), U.S. Air Force Academy (USAFA), Pacific Air Forces (PACAF), and DFAS Japan
Release 5 - U. S. Air Forces in Europe (USAFE), and DFAS Europe
Release 6 - Air Force Space Command (AFSPC), Air Force Materiel Command (AFMC), and DFAS Columbus
Release 7 - Conversion programs (Legacy elimination)
Release 8 - Surface Deployment and Distribution Command (SDDC)
DEAMS Inc 1 capability will continue to be deployed in FY2016-2017 as approved by the Milestone Decision Authority.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force | Date: February 2016 |
| :--- | :--- | :--- |
| 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 and Mgmt System |
| Equip / BSA 6: Space Programs |  |



FY 2015 and FY 2016 funds used to procure Oracle software licenses and other miscellaneous items using multiple contracts and various vendors via annual task order contracts.
FY2015 Congressional approved reprogramming of $\$ 11.000 \mathrm{M}$ from OPAF to O\&M.
FY2016 Congressional Directed Reduction of $\$ 4.500 \mathrm{M}$ for "early to need."
No FY 2017 funding is requested.
Procurement funding for DEAMS is in PE 0901538F, Financial Information Management Systems Development (FMISD).

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs |  |  |  |  | P-1 Line Item Number / Title: <br> 834470 / Defense Enterprise Accounting and Mgmt System |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): B |  | Program Elements for Code B Items: 0901538F |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line It | m MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | Financial Management Information Systems Development | P-5a | B | - 10.000 | - 14.298 | - 14.755 | - 1- | - 1- | - 1 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 10.000 | - 14.298 | - 14.755 | - 1. | - | - 1. |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| $\begin{gathered} \text { Exhibit } \\ \text { Type } \\ \hline \end{gathered}$ | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Co } \end{array}$ | 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 | Financial Management Information Systems Development | P-5a | B | - 1 - | - 1 - | - 1 - | 1. | 1. | 19.053 |
| P-40 Total Gross/Weapon System Cost |  |  |  | - 1. | - 1- | - 1 - | - 1 - | - 1 - | - 19.053 |
| *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. |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

| Exhibit P-5, Cost | Analysis | PB 2 | 17 Air Fo | orce |  |  |  |  |  |  |  |  |  |  |  | Date: F | ebruary 20 | 016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / B 3080F / 03 / 6 | udget A | tivity | Budget S | Sub Acti |  |  | $\begin{array}{\|l\|} \hline \text { P-1 L } \\ 8344 \end{array}$ | Line Item 70 / Defe | Numb nse En |  |  | Accounti | g and Mg | mos | stem | Item N <br> - / Fina <br> System | mber / Ti <br> cial Mana <br> Develop | itle [DO agemen ment | IC]: <br> Inform | ation |
| ID Code (A=Service Read | $y, \mathrm{~B}$ Not Serv | Ready) |  |  |  |  |  |  |  |  |  | MDAP/MAI | Code: |  |  |  |  |  |  |  |
| Resource S | ummary |  | Prior Years | FY 20 |  | FY | 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{array}{r} \hline \text { FY 20 } \\ \text { OC } \end{array}$ |  |  | Y 2017 <br> Total | FY 2018 | FY | 2019 FY | FY 2020 | FY 2021 |  | ete | Total |
| Procurement Quantity (Unis | s in Each) |  | - |  | - |  | - |  |  | - |  | - | - |  | - |  |  |  | - |  |
| Gross/Weapon System Cos | st (\$ in Million |  | 0.000 |  | 298 |  | 4.755 |  |  | - |  | - |  |  | - |  |  |  | - | 9.053 |
| Less PY Advance Procure | ment (\$ in M |  | - |  | - |  | - |  |  | - |  | - | - |  | - | - |  | - | - | - |
| Net Procurement (P-1) (\$ | Millions) |  | 0.000 |  | 298 |  | 4.755 | - |  | - |  | - | - |  | - | - |  | - | - | 9.053 |
| Plus CY Advance Procure | ment (\$ in Mi |  | - |  | - |  | - |  |  | - |  | - | - |  | - | - |  | - | - |  |
| Total Obligation Authorit | (\$ in Million |  | 0.000 |  | 298 |  | 4.755 | - |  | - |  | - | - |  | - | - |  | - | - | 9.053 |
|  |  | following | Resource Sum | mmary rows | re for in | inf | ational pu | rposes only. | he corresp | ding | udg | dget requests | are document | ed elsew | here.) |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  | - |  | - |  | - | - |  | - |  | - | - |  | - | - |  | - | - | - |
| Gross/Weapon System Un | nit Cost (\$ in | Ilars) | - |  | - |  | - | - |  | - |  | - | - |  | - | - |  | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in | in this Exhibi | P-5 may | t be exact or | rsum exacti | due to | roun | ing. |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | ior Yea |  |  | FY 201 |  |  |  | FY 2016 |  |  |  | Y 2017 Base |  |  | FY 2017 O |  |  | 2017 |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ |  | Total <br> Cost <br> (\$ M) | Unit Cost <br> (8) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Tot } \\ & \text { Co } \\ & \text { (\$ } \end{aligned}$ |  | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$M) | Unit Cost <br> (\$) | $\begin{array}{l\|c} \text { st } & \begin{array}{c} \text { Qty } \\ \text { (Each) } \end{array} \\ \hline \end{array}$ | Total <br> Cost <br> (\$M) | Unit Cost <br> (8) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$M) |
| Software - DEAMS Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Software ${ }^{(t)}$ | - | - | 0.000 | 870.04 |  | 4,940 | 4.298 | 870.08 | 5,465 |  | 4.755 | 5 | - | - | - | - - | - | - |  |  |
| Subtotal: Recurring Cost | - | - | 0.000 | - |  | - | 4.298 | - | - |  | 4.755 | 5 | - | - | - | - - | - | - |  |  |
| Subtotal: Software - DEAMS Cost | - | - | 0.000 | - |  | - | 4.298 | - | - |  | 4.755 | 5 | - | - | - | - - | - | - |  |  |
| Gross/Weapon System Cost | - | - | 0.000 | - |  | - | 4.298 | - | - |  | 4.755 | 5 | - | - | - | - - | - | - |  |  |
|  |  | Y 2018 |  |  | FY 201 |  |  |  | Y 2020 |  |  |  | FY 2021 |  |  | To Compl |  |  | otal Co |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ |  | Total <br> Cost <br>  <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Tot } \\ & \text { Co } \\ & \text { (\$1 } \end{aligned}$ |  | Unit Cost <br> (8) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{array}{l\|c} \text { st } & \begin{array}{c} \text { Qty } \\ \text { (Each) } \end{array} \\ \hline \end{array}$ | Total Cost (\$M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$M) |
| Software - DEAMS Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Software ${ }^{(t)}$ | - | - | - | - |  | - | - | - | - |  | - | - | - | - | - | - - | - | 870.06 | 10,4 | - 9.053 |
| Subtotal: Recurring Cost | - | - | - | - |  | - | - | - | - |  | - | - | - | - | - | - - | - | - |  | 9.05 |
| Subtotal: Software - DEAMS Cost | - | - | - | - |  | - | - | - | - |  | - | - | - | - | - | - - | - | - |  | 9.053 |
| Gross/Weapon System Cost | - | - |  | - |  | - | - | - | - |  | - | - |  | - |  |  |  | - |  | 9.053 |

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| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  | Date: February 2016 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 | P-1 Line Item Number / Title: <br> 834470 / Defense Enterprise Accounting and Mgmt System | Item Number / Title [DODIC]: <br> - / Financial Management Information Systems Development |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 03 / 6$ |  |  |  | P-1 Line Item Number / Title: <br> 834470 / Defense Enterprise Accounting and Mgmt System |  |  |  | Item Number / Title [DODIC]: <br> - / Financial Management Information Systems Development |  |  |  |  |
| Cost Elements | 0 <br> C <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\underset{\text { (Each) }}{\text { Qty }}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Software |  | 2015 | DLT Solutions / Herndon, VA | C/FFP | AFLCMC/HI - Business \& Enterprise Systems | Jun 2015 | Jul 2015 | 4,940 | 870.04 | N |  | Feb 2015 |
| Software |  | 2016 | DLT Solutions / Herndon, VA | C/FFP | AFLCMC/HI - Business \& Enterprise Systems | Jun 2016 | Jul 2016 | 5,465 | 870.08 | N |  | Feb 2016 |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
P-1 Line Item Number / Title:
834520 / Theater Battle Mgt C2 System Equip / BSA 4: Spcl Comm-Electronics Projects

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: 0207410F |  |  |  |  | Other Related Program Elements: 0207410F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 9.493 | 7.473 | 9.659 | - | 9.659 | $9.555^{\text {(a) }}$ | $9.189^{\text {(b) }}$ | $9.353^{(c)}$ | $9.523{ }^{\text {(d) }}$ | - | $64.245{ }^{(\mathrm{e})}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 9.493 | 7.473 | 9.659 | - | 9.659 | 9.555 | 9.189 | 9.353 | 9.523 | - | 64.245 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 9.493 | 7.473 | 9.659 | - | 9.659 | 9.555 | 9.189 | 9.353 | 9.523 | - | 64.245 |
| (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:

Theater Battle Management Core Systems (TBMCS) is an integrated battle management system used to plan, execute, and assess an air campaign. It provides automated planning tools enabling consistent, coordinated battle management at entities ranging from the force level (Air Operations Centers [AOC]) to the unit level (wings/squadrons) for operations and intelligence functions. TBMCS is a United States Air Force system with Joint interest responsible for generation and dissemination of the air tasking order and interoperates with allied units.

Unit Command and Control (UC2): Provides the wing and base commanders, and their battle staffs with timely and accurate information for effective decision making. UC2 also provides secure, automated, deployable, and distributed wing-level command and control system with connectivity to TBMCS - Force Level (TBMCS FL) systems.

Personnel Recovery Command and Control (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 Department of Defense (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/Areas Of Responsibility (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.

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

Funding for this exhibit contained in PE 0207410F.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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: 0207410F | Other Related Program Elements: 0207410 F |
| :--- | :--- | :--- | :--- |


| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |
| :--- | :--- |


| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | TBMC2 |  |  | 1 | - 14.673 | - 13.139 | - 15.114 | - 1 - | - 15.114 |
| P-40a | TBMC2 Mods |  |  | - 10.000 | - 14.820 | - 14.334 | - 14.545 | - 1 - | - 14.545 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1 - | 19.493 | - 17.473 | 19.659 | - 1 - | 19.659 |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \\ & \hline \end{aligned}$ | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | TBMC2 |  |  | 1 - | 1 | - 1 - | - 1 - | 1 | - 1 - |
| P-40a | TBMC2 Mods |  |  | - 14.626 | - 14.707 | - 14.792 | - 14.879 | - 1 - | - 132.703 |
| P-40 | Total Gross/Weapon System Cost |  |  | 19.555 | - 19.189 | - 19.353 | - 19.523 | - 1 - | - 164.245 |

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

## Justification:

1. TBMCS - FORCE LEVEL (TBMCS FL): Provides the Joint and Combined Air Component Commander with the automated tools necessary to effectively and efficiently plan, monitor, and execute the air campaign. This includes planning and issuing the Air Tasking and Airspace Control Orders that ensure the theater commander's intent is supported through the application of airpower using the latest intelligence. FY17 funding will continue fielding TBMCS FL to include security patches, vendor update patches, operating system upgrades, and DoD mandated policy updates. TBMCS FL will also continue capitol equipment replacements to the systems to maintain security posture and field updates to 40 locations ( 28 AD/7 ANG/5 AFR).
a. TBMCS FL PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY17 funding includes provisions for government contract oversight, technical expertise, and program office support associated with the fielding of TBMCS FL.
b. TBMCS FL TRAINING \& FIELDING: FY17 funding will continue to support Type 1 training \& fielding. As contractors field the TBMCS FL upgrades, they will provide specialized training at each location.
c-e. TBMCS FL: FY17 funds will continue to be used to procure hardware and associated software licenses for fielding to various sites.
2. UNIT COMMAND AND CONTROL (UC2): Provides the wing and base commanders and their battle staffs with timely and accurate information for effective decision making. UC2 also provides secure, automated, deployable, and distributed wing-level command and control system with connectivity to TBMCS FL systems. Enhanced unit-level operations capabilities will be provided through the UC2 project. FY17 funding will continue to support fielding Capital Equipment Replacement (CER) cycle for UC2 at 40 active duty locations.
a. UC2 HARDWARE AND COMMERCIAL-OFF-THE-SHELF (COTS) SOFTWARE: FY17 funds will continue to replace clients, servers, miscellaneous hardware, and associated software licenses for UC2 sites.
b. UC2 PMA: FY17 funding includes provisions for government contract oversight, technical expertise, and program office support associated with the fielding of UC2.
3. PERSONNEL RECOVERY COMMAND AND CONTROL (PRC2): Provides PRC2 services supporting all Combatant Commands, Joint Services and other government agencies. Capabilities include webbased 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. FY17 funding will continue to support PRC2 operations.

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| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force | Date: February 2016 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |  |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | 834520 / Theater Battle Mgt C2 System |  |
| Equip / BSA 4: Spcl Comm-Electronics Projects |  |  |


a. PRC2 HARDWARE AND COTS SOFTWARE: FY17 funding will continue procure various hardware pieces and associated software licenses for fielding to various sites.
b. PRC2 PMA: FY17 funding will provide for government contract oversight, technical expertise, and program office support associated with the fielding of PRC2.
 follows:
${ }^{(a)}$ FY 2018 Cost Delta: 4.929 million
${ }^{(b)}$ FY 2019 Cost Delta: 4.482 million
${ }^{(c)}$ FY 2020 Cost Delta: 4.561 million
${ }^{(d)}$ FY 2021 Cost Delta: 4.644 million
${ }^{(e)}$ FY Total Cost Delta: 31.542 million

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: TBMC2 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834520 / Theater Battle Mgt C2 System |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <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 <br> (\$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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TBMCS FL | A |  | - | - | - | - | - | 4.673 | - | - | 3.139 | - | - | 5.114 | - | - | - | - |  | 5.114 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 4.673 | - | - | 3.139 | - | - | 5.114 | - | - | - | - |  | 5.114 |
| Total |  |  | - | - | - | - | - | 4.673 | - | - | 3.139 | - | - | 5.114 | - | - | - | - | . | 5.114 |

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 2017 Air Force ${ }^{\text {a }}$ ( Dat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Modification Items Title: TBMC2 Mods |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F/03/4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834520 / Theater Battle Mgt C2 System |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{array}{\|c\|} \text { ID } \\ \text { CD } \end{array}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | 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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | $\begin{aligned} & \text { Unit Cost } \\ & (\$ M) \end{aligned}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| PRC2/PRC2 |  |  | - |  |  |  |  | 0.995 | - |  | 1.255 | - |  | 1.252 | - |  |  | - |  | 1.252 |
| UC2 / UC2 |  |  | - | - | - | - | - | 3.825 | - |  | 3.079 | - | - | 3.293 | - | - |  | - |  | 3.293 |
| Total |  |  |  |  | 0.000 | - |  | 4.820 | - |  | 4.334 | - | - | 4.545 | - | - |  | - | - | 4.545 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ |  | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| PRC2 / PRC2 |  |  | - | - | 1.274 | - | - | 1.297 | - | - | 1.320 | - | - | 1.344 | - | - | - | - | - | 8.737 |
| UC2 / UC2 |  |  | - | - | 3.352 | - | - | 3.410 | - |  | 3.472 | - | - | 3.535 | - | - |  | - | - | 23.966 |
| Total |  |  | - | - | 4.626 | - | - | 4.707 | - | - | 4.792 | - | - | 4.879 | - | - | - | - | - | 32.703 |

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

## Modification Information:

| Modific\| |
| :--- |
| Item Number / Title |
| Models of Systems Affected |
| PRC2 / PRC2 |
| UC2 / UC2 |

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

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

## P-1 Line Item Number / Title:

834530 / Air \& Space Operations Ctr-WPN 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: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 25.701 | 9.993 | 15.474 | - | 15.474 | 41.335 | 37.608 | 38.340 | 39.003 | - | 207.454 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 25.701 | 9.993 | 15.474 | - | 15.474 | 41.335 | 37.608 | 38.340 | 39.003 | - | 207.454 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 25.701 | 9.993 | 15.474 | - | 15.474 | 41.335 | 37.608 | 38.340 | 39.003 | - | 207.454 |
| (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.
 equipment replacement consist of AOCs and their associated support sites (e.g., help desk, Formal Training Unit, experimental sites, and Air Reserve Component sites).
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PE 0207410F.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity |  | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 24.164 | 9.993 | 14.574 | - | 14.574 | 40.435 | 36.708 | 37.440 | 38.103 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.854 | - | 0.600 | - | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.683 | - | 0.300 | - | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |

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| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> 834530 / Air \& Space Operations Ctr-WPN 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 | de: N/A $\quad$ Item | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Secondary Distribution | Total Obligation Authority | 25.701 | 9.993 | 15.474 | - | 15.474 | 41.335 | 37.608 | 38.340 | 39.003 |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \\ & \hline \end{aligned}$ | 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 | Air \& Space Operations Ctr-WPN SYS |  | A | - 1 | - $/ 25.701$ | - 19.993 | - /15.474 | - 1 - | - /15.474 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1 - | - $/ 25.701$ | - 19.993 | - /15.474 | -1 | - /15.474 |

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

## Justification:





 Primary efforts in fielding include Capital Equipment Replacement and Recurring Events (RE).


 fielding plan and associated hardware, which drives differences in site specific (i.e., unit) costs.

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


 meaningful way to measure quantities as the Capital Equipment Replacement of each site is significantly different.



 site specific requirements. Therefore, there is no meaningful way to measure quantities as the fielding of an RE to each site is significantly different.

 Reserve Components) will drive differences in site specific requirements (e.g., time required, hardware required and software required).
d. TEST SUPPORT (46 Test Squadron [46TS]): FY17 funds will be used to provide government oversight and technical expertise associated with the testing of AOC.
2. PROGRAM MANAGEMENT ADMINISTRATION (PMA): The breakdown of this activity includes the following:

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Page 3 of 7
P-1 Line \#37
Volume 1-307

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
P-1 Line Item Number / Title:
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 Item MDAP/MAIS Code(s): N/A
a. PROGRAM SUPPORT: FY17 funding includes provisions for government contract oversight, technical expertise, and program management office support associated with standardization of the AOC WS 10.1 baseline.
b. TECHNICAL DOCUMENTATION: No FY17 funding requested.

Items requested in FY17 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

Exhibit P-5, Cost Analysis: PB 2017 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4

## P-1 Line Item Number / Title: 834530 / Air \& Space Operations Ctr-WPN SYS

Date: February 2016
Item Number / Title [DODIC]:

- / Air \& Space Operations Ctr-WPN SYS

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

| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 25.701 | 9.993 | 15.474 | - | 15.474 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 25.701 | 9.993 | 15.474 | - | 15.474 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 25.701 | 9.993 | 15.474 | - | 15.474 |
| (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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <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) |

Hardware - Hardware End Item Cost
Recurring Cost

| 1.a.1. CAPTIAL EQUIPMENT REPLACEMENT: GEOGRAPHIC/ FUNCTIONAL (planned name change to Global) AOC - AD | - | - | - | - | - | 3.783 | - | - | 0.450 | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.a.2. CAPITAL EQUIPMENT REPLACEMENT: AOC SUPPORT SITES - AD | - | - | - | - | . | 1.669 | . | . | - | . | . | 3.457 | . | . | - | - | - | 3.457 |
| 1.a.3. CAPITAL EQUIPMENT REPLACEMENT: AOC EXPERIMENTAL SITES - AD | - | - | - | - | - | 2.082 | - | - | 1.575 | - | - | 2.055 | - | - | - | - | - | 2.055 |
| 1.a.4. CAPITAL EQUIPMENT REPLACEMENT RESERVE | - | - | - | - | . | 0.683 | . | . | - | . | - | 0.300 | - | - | - | - | - | 0.300 |
| 1.a.5: CAPITAL EQUIPMENT REPLACEMENT GUARD | - | - | - | - | - | 0.854 | - | - | - | - | - | 0.600 | - | - | - | - | - | 0.600 |

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 4
## P-1 Line Item Number / Title: 834530 / Air \& Space Operations Ctr-WPN SYS

Date: February 2016

## Item Number / Title [DODIC]:

- / Air \& Space Operations Ctr-WPN SYS

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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 (\$ 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) |
| 1.b.1. RECURRING EVENTS: AOC SITES - AD | - | - | - | - | - | 0.930 | - | - | 0.285 | - | - | 3.306 | - | - | - | - | - | 3.306 |
| 1.b.2. RECURRING EVENTS: SUPPORT SITES - AD | - | - | - | - | - | 0.877 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.c. FIELDING SPO SUPPORT | - | - | - | - | - | 10.505 | - | - | 4.989 | - | - | 3.836 | - | - | - | - | - | 3.836 |
| 1.d. TEST SUPPORT (46TS) | - | - | - | - | - | 1.395 | - | - | 0.646 | - | - | 0.830 | - | - | - | - | - | 0.830 |
| Subtotal: Recurring Cost | - | - | - | - | - | 22.778 | - | - | 7.945 | - | - | 14.384 | - | - | - | - | - | 14.384 |
| Subtotal: Hardware - <br> Hardware End Item Cost | - | - | - | - | - | 22.778 | - | - | 7.945 | - | - | 14.384 | - | - | - | - | - | 14.384 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.a. PROGRAM MANAGEMENT ADMINISTRATION: PROGRAM SUPPORT | - | - | - | - | - | 2.605 | - | - | 2.048 | - | - | 1.090 | - | . | . | - | . | 1.090 |
| 2.b. PROGRAM MANAGEMENT ADMINISTRATION: TECHNICAL DOCUMENTATION | - | - | - | - | - | 0.318 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 2.923 | - | - | 2.048 | - | - | 1.090 | - | - | - | - | - | 1.090 |
| Gross/Weapon System Cost | - | - | - | - | - | 25.701 | - | - | 9.993 | - | - | 15.474 | - | - | - | - | - | 15.474 |

## 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.
2). Differences in site specific setup (due to variations between mission specific needs and differences in site type i.e., Geographic vs. Functional (planned name change to Global) vs. Associated Support Site vs. Reserve Components) will drive differences in site specific requirements (e.g., time required, hardware required and software required). This makes quantification impossible, as there is no single baseline to produce a quantity against. Per DoD Financial Regulation 7000.14-R, Volume 2B, Chapter 4, Exhibit P-5 Instruction, the quantities in the P-5 are left blank as there is no way to report applicable quantities.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 24.164 | 9.993 | 14.574 | - | 14.574 |
| AFNG | Quantity | - | - | - | - | - |

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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: 0605458F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N42 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | - | 14.846 | 30.623 | - | 30.623 | 11.844 | - | - | - | 36.500 | 93.813 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | - | 14.846 | 30.623 | - | 30.623 | 11.844 | - | - | - | 36.500 | 93.813 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | - | 14.846 | 30.623 | - | 30.623 | 11.844 | - | - | - | 36.500 | 93.813 |
| (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:




 reaction to immediate situations by exercising positive control of friendly forces.

 Geographic AOCs.


 using Research, Development, Test \& Evaluation (RDT\&E) funds under PE 0605458F.

Funding for this exhibit is contained in PE 0207410F.

Exhibit P-40, Budget Line Item Justification: PB 2017 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:
834560 / Air Operations Center (AOC) 10.2 Equip / BSA 3: Electronics Programs

| ID Code (A=Service Ready, B=Not Service Ready): B |  |  | Program Elements for Code B Items: 0605458F |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N42 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | Air Operations Center (AOC) 10.2 | P-5a, P-21 | B | - 10.000 | - 1 - | - /14.846 | - $/ 30.623$ | - 1- | - 130.623 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 10.000 | - 1 - | - / 14.846 | - 130.623 | - 1 - | - 130.623 |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | Air Operations Center (AOC) 10.2 | P-5a, P-21 | B | - /11.844 | 1 | - 1- | 1 | - 136.500 | - 193.813 |
| P-40 | Total Gross/Weapon System Cost |  |  | - / 11.844 | 1 | - 1 - | 1 | - 136.500 | - 193.813 |

*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:

1. PACKAGE FIELDING: The breakdown of this activity includes the following:
a. INITIAL FIELDING: FY17 funds will be used to support the procurement of hardware, software, warranties, support, and installation of the 10.2 baseline system to Geographic AOCs.
b. SITE INSTALLATION TESTING: FY17 funds will be used to prepare and conduct site testing, primarily conducted by the 46th Test Squadron (46TS). 46TS conducts functional and cyber testing of fielded systems.
c. FIELDING SUPPORT: FY17 funds will be used to provide technical expertise required to field AOC.
d. TRAINING: In conjunction with the 10.2 fielding, FY17 funds will be used for initial training on the 10.2 weapon system, which will be provided to site operators, network administrators, and system administrators.
2. SUPPORT: The breakdown of this activity includes the following:
a. PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY17 funding includes provisions for government contract oversight, technical expertise, and program management office support associated with 10.2 baseline standardization of the AOC WS.

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

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

| MDAP/MAIS Code: |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | - | 14.846 | 30.623 | - | 30.623 | 11.844 | - | - | - | 36.500 | 93.813 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | - | 14.846 | 30.623 | - | 30.623 | 11.844 | - | - | - | 36.500 | 93.813 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | - | 14.846 | 30.623 | - | 30.623 | 11.844 | - | - | - | 36.500 | 93.813 |



| Package Fielding - PackageFielding End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Fielding ${ }^{(\dagger)}$ | - | - | 0.000 | - | - | - | 10.936 | 1 | 10.936 | 11.222 | 2 | 22.443 | - | - | - | 11.222 | 2 | 22.443 |
| Site Installation Testing | - | - | 0.000 | - | - | - | - | - | 0.180 | - | - | 0.360 | - | - | - | - | - | 0.360 |
| Subtotal: Recurring Cost | - | - | 0.000 | - | - | - | - | - | 11.116 | - | - | 22.803 | - | - | - | - | - | 22.803 |
| Subtotal: Package Fielding - PackageFielding End Item Cost | - | - | 0.000 | - | - | - | - | - | 11.116 | - | - | 22.803 | - | - | - | - | - | 22.803 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Program Management Administration (PMA) | - | - | - | - | - | - | - | - | 2.120 | - | - | 4.600 | - | - | - | - | - | 4.600 |
| Fielding Technical Support | - | - | - | - | - | - | - | - | 0.340 | - | - | 0.680 | - | - | - | - | - | 0.680 |
| Type I Training | - | - | - | - | - | - | - | - | 1.270 | - | - | 2.540 | - | - | - | - | - | 2.540 |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | - | - | - | 3.730 | - | - | 7.820 | - | - | - | - | - | 7.820 |
| Gross/Weapon System Cost | - | - | 0.000 | - | - | - | - | - | 14.846 | - | - | 30.623 | - | - | - | - | - | 30.623 |


| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 \text { / } 3$ |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834560 / Air Operations Center (AOC) 10.2 |  |  |  |  |  |  |  | $\begin{aligned} & \text { Item Number / Title [DODIC]: } \\ & \text { - / Air Operations Center (AOC) } 10.2 \end{aligned}$ |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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 <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) |
| Package Fielding - PackageFielding End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Fielding ${ }^{(\dagger)}$ | 2.937 | 3 | 8.810 | - | - | - | - | - | - | - | - | - | - | - | 28.680 | 11.812 | 6 | 70.869 |
| Site Installation Testing | - | - | 0.180 | - | - | - | - | - | - | - | - | - | - | - | 0.360 | - | - | 1.080 |
| Subtotal: Recurring Cost | - | - | 8.990 | - | - | - | - | - | - | - | - | - | - | - | 29.040 | - | - | 71.949 |
| Subtotal: Package Fielding - PackageFielding End Item Cost | - | - | 8.990 | - | - | - | - | - | - | - | - | - | - | - | 29.040 | - | - | 71.949 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Program Management Administration (PMA) | - | - | 1.244 | - | - | - | - | - | - | - | - | - | - | - | 4.240 | - | - | 12.204 |
| Fielding Technical Support | - | - | 0.340 | - | - | - | - | - | - | - | - | - | - | - | 0.680 | - | - | 2.040 |
| Type I Training | - | - | 1.270 | - | - | - | - | - | - | - | - | - | - | - | 2.540 | - | - | 7.620 |
| Subtotal: Support - Support End Item Cost | - | - | 2.854 | - | - | - | - | - | - | - | - | - | - | - | 7.460 | - | - | 21.864 |
| Gross/Weapon System Cost | - | - | 11.844 | - | - | - | - | - | - | - | - | - | - | - | 36.500 | - | - | 93.813 |

## Remarks:

 calculated unit costs are representative but not actual.
 revised Geographic AOC fielding plan is $1 / 2 / 3 \mathrm{in} \mathrm{FYs} 16 / 17 / 18$. The Air Force is evaluating the FY18 funding needs to complete this plan.
$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

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| Exhibit P-21, Production Schedule: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834560 / Air Operations Center (AOC) 10.2 |  |  |  |  |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> - I Air Operations Center (AOC) 10.2 |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2016 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2017 |  |  |  |  |  |  |  |  |  |  |  | BAAAN |
|  |  |  |  | ACCEPT |  | Calendar Year 2016 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2017 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{aligned} & \text { PRO1 } \\ & \text { TOO } \\ & \text { OCT } \\ & \text { OO15 } \end{aligned}$ | $\begin{gathered} \text { BUL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | - | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br>  <br> R <br> R | M A Y | J U N | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \end{aligned}$ | A | S E P | o c T | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | D E C | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M <br>  <br> R | A P R | M $A$ Y | J | J u L | A | S E P |  |
| Initial | Fielding |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2016 | AF | 1 | - | 1 |  |  |  |  |  |  |  |  |  | A - | - | - |  |  |  |  |  |  |  |  |  |  |  |  | - |
| 1 | 2017 | AF | 2 | - | 2 |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - |  |  |  |  |  |  |  |  | - |
| 1 | 2018 | AF | 3 | - | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A Y | J U | J | A | S E P | O c T | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> P <br> R | M | J | J | A | S <br> E <br> P |  |

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| Exhibit P-21, Production Schedule: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Item Number / Title [DODIC]: <br> - I Air Operations Center (AOC) 10.2 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834560 / Air Operations Center (AOC) 10.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \hline \text { Cost Elements } \\ & \text { (Units in Each) } \\ & \hline \end{aligned}$ |  |  |  |  |  | Fiscal Year 2018 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  | Calendar Year 2018 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|} \hline & \mathrm{M} \\ \mathrm{O} & \mathrm{~F} \\ \mathrm{C} & \mathrm{R} \\ \hline \end{array}$ | FY | SERVICE | PROC QTY | $\begin{aligned} & \text { TO } 1 \\ & \text { OCT } \\ & 2017 \end{aligned}$ | $\begin{gathered} \text { BUL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \text { o } \\ & \text { c } \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A P R | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | J u N | J u L | A | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A P R | M $A$ Y | J N | J | A | S E P |  |
| Initial | ielding |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2016 | AF | 1 | 1 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| 1 | 2017 | AF | 2 | 2 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| 1 | 2018 | AF | 3 | - | 3 | A - | - | - | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | O c T | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A Y | J U N | J | A | S E P | O C T | N | D E C | $\begin{aligned} & \hline \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> P <br> R | M | J | J | A | S <br> $\mathbf{E}$ <br> P |  |

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| Exhibit P-21, Production Schedule: PB 2017 Air Force |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  | P-1 Line Item Number / Title: <br> 834560 / Air Operations Center (AOC) 10.2 |  |  |  |  | Item Number / Title [DODIC]: <br> - I Air Operations Center (AOC) 10.2 |  |  |
| $\begin{array}{\|c} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2017 | 1-8-5 For 2017 | MAX For 2017 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | TBD - Various | 1 | 4 | 6 | - | - | - | - | - | 1 | 4 | 5 |

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

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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: 0303112F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N78 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 129.836 | 106.936 | 74.621 | 40.043 | - | 40.043 | 56.710 | 58.750 | 59.787 | 60.863 | 407.332 | 994.878 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 129.836 | 106.936 | 74.621 | 40.043 | - | 40.043 | 56.710 | 58.750 | 59.787 | 60.863 | 407.332 | 994.878 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 129.836 | 106.936 | 74.621 | 40.043 | - | 40.043 | 56.710 | 58.750 | 59.787 | 60.863 | 407.332 | 994.878 |
| (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:

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






 provide the throughput necessary.

 installed location.

BITI Turnkey: Deploys complete BITI system/sub-system infrastructure/equipment for over 170 fixed Air Force installations (active duty, reserve, and ANG) and GSU at approved locations.


 Turnkey Modifications, all BITI base work will be Recapitalizations.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 / Information Transport Systems |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A Pr |  |  | Program Elements for Code B Items: N/A |  |  | Other Related Program Elements: 0303112F |  |  |  |  |
| Line Item MDAP/MAIS Code: N78 Item MDAP/MAIS Code(s): N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| BITI Recapitalization: Replaces critical "backbone" infrastructure of network equipment installed as part of Turnkeys on a routine basis for fielded systems for over 170 fixed Air Force installations (active duty, reserve, and Air National Guard (ANG)) and Geographically Separated Units (GSUs) at approved locations. <br> Funding for this exhibit contained in PE 0303112F. |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| AF | Quantity | - | - | - | - |  |  | - | - | - |
|  | Total Obligation Authority | 102.429 | 74.621 | 40.043 | - | 40.043 | 19.830 | 33.027 | 48.436 | 43.516 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.507 | - | - | - | - | 36.880 | 24.431 | 6.524 | 14.599 |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | 1.292 | 4.827 | 2.748 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 106.936 | 74.621 | 40.043 | - | 40.043 | 56.710 | 58.750 | 59.787 | 60.863 |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications

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

## Justification:

BITI: FY17 funding includes, but is not limited to, implementation and upgrades to broadband, fiber-optic digital information transport networks to provide mission-critical information transfer capabilities at fixed Air Force bases (Active Duty, Air Force Reserve, and Air National Guard) and selected geographically separated unit locations. Procurement efforts include, but are not limited, site surveys, installations, and interim contractor support (ICS).

BITI Turnkey Modification: FY17 delivery will modify the complete system infrastructure/equipment on bases that have already received a Turnkey. The last six installations started taking place in FY15 and will finish in FY17.

BITI Recapitalization: FY17 replace BITI Turnkey fielded systems for over 170 fixed Air Force installations.

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 5Date: February 2016
P-1 Line Item Number / Title:
Item Number / Title [DODIC]: 835060 / Information Transport Systems

- / 0303112F ITS

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

| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 129.836 | 106.936 | 74.621 | 40.043 | - | 40.043 | - | - | - | - | - | 351.436 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 129.836 | 106.936 | 74.621 | 40.043 | - | 40.043 | - | - | - | - | - | 351.436 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 129.836 | 106.936 | 74.621 | 40.043 | - | 40.043 | - | - | - | - | - | 351.436 |



| Hardware - Hardware End Item Cost Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BITI Turnkey Projects - AD Site Survey | 0.687 | 21 | 14.435 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BITI Turnkey Projects - AD Installation ${ }^{\left({ }^{()}\right)}$ | 4.170 | 12 | 50.042 | 5.345 | 4 | 21.380 | - | - | - | - | - | - | - | - |  | - | - | - |
| BITI Turnkey Projects - Reserve Site Survey | 0.381 | 5 | 1.903 | - | - | - | - | - | - | - | - | - |  | - |  | - | - | - |
| BITI Turnkey Projects - Reserve Installation ${ }^{\left({ }^{()}\right)}$ | 2.083 | 2 | 4.166 | 2.254 | 2 | 4.507 | - | - | - | - | - | - | - | - | - | - | - | - |
| BITI Turnkey <br> Modernization AD Site <br> Survey | 2.698 | 1 | 2.698 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BITI Turnkey Modernization AD Installation ${ }^{(\dagger)}$ | 7.034 | 3 | 21.102 | 3.068 | 2 | 6.136 | - | - | - | - | - | - | . | - | - | - | - | - |
| BITI Recapitalization $\mathrm{AD}^{(+)}$ | - | - | - | 0.681 | 44 | 29.976 | 1.052 | 18 | 18.929 | 1.819 | 2 | 3.637 | - | - | - | 1.819 | 2 | 3.637 |
| BITI Recapitalization Reserve ${ }^{(\text {( })}$ | - | - | - | 0.486 | 5 | 2.428 | - | - | - | - | - | - | - | - | - | - | - | - |
| BITI Enterprise Recapitalization | - | - | - | - | - | 21.180 | - | - | 41.640 | - | - | 22.238 | - | - | - | - | - | 22.238 |

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 5ID Code (A=Service Ready, B=Not Service Ready) : A
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding

|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | Qty <br> (Each) | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { Qach) } \end{aligned}$ | Total Cost (\$ 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 (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| AFGSC Telephone Requirement | - | - | - | - | - | 10.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - |  | 94.346 | - | - | 95.607 | - | - | 60.569 | - | - | 25.875 | - | - | - | - | - | 25.875 |
| Subtotal: Hardware - <br> Hardware End Item Cost Cost | - | - | 94.346 | - | - | 95.607 | - | - | 60.569 | - | - | 25.875 | - | - | - | - | - | 25.875 |
| Support - Support End Item Cost Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BITI Direct Mission Support (DMS) | - | - | 19.261 | - | - | 8.516 | - | - | 5.869 | - | - | 5.916 | - | - | - | - | - | 5.916 |
| BITI Program Management Administration Contractor Services | - | - | 14.689 | - | - | 2.558 | - | - | 7.888 | - | - | 7.952 | - | - | - | - | - | 7.952 |
| BITI Other PMA Government Costs | - | - | 1.540 | - | - | 0.255 | - | - | 0.295 | - | - | 0.300 | - | - | - | - | - | 0.300 |
| Subtotal: Support - Support End Item Cost Cost | - | - | 35.490 | - | - | 11.329 | - | - | 14.052 | - | - | 14.168 | - | - | - | - | - | 14.168 |
| Gross/Weapon System Cost | - | - | 129.836 | - | - | 106.936 | - | - | 74.621 | - | - | 40.043 | - | - | - | - | - | 40.043 |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Cost Elements | Unit Cost (\$ M) | $\underset{(\text { Each }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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 Cost
Recurring Cost

| BITI Turnkey Projects - AD Site Survey | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.687 | 21 | 14.435 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BITI Turnkey Projects - AD Installation ${ }^{(\dagger)}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.464 | 16 | 71.422 |
| BITI Turnkey Projects <br> - Reserve Site Survey | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.381 | 5 | 1.903 |
| BITI Turnkey Projects - Reserve Installation ${ }^{(\dagger)}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.168 | 4 | 8.673 |
| BITI Turnkey Modernization AD Site Survey | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.698 | 1 | 2.698 |
| BITI Turnkey Modernization AD Installation ${ }^{(\dagger)}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.448 | 5 | 27.238 |


| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Item Number / Title [DODIC]: <br> $-/ 0303112 \mathrm{~F}$ ITS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 835060 / Information Transport Systems |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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 $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| BITI Recapitalization $A D^{(\dagger)}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.821 | 64 | 52.542 |
| BITI Recapitalization Reserve ${ }^{(\text {( })}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.486 | 5 | 2.428 |
| BITI Enterprise Recapitalization | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 85.058 |
| AFGSC Telephone Requirement | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10.000 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 276.397 |
| Subtotal: Hardware - <br> Hardware End Item Cost Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 276.397 |
| Support - Support End Item Cost Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BITI Direct Mission Support (DMS) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 39.562 |
| BITI Program <br> Management <br> Administration Contractor <br> Services | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 33.087 |
| BITI Other PMA Government Costs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.390 |
| Subtotal: Support - Support End Item Cost Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 75.039 |
| Gross/Weapon System Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 351.436 |

## Remarks:

 availability.

Manpower (consisting of DMS \& PMA) is combined Operations \& Support and Acquisition cost.
 Infrastructure (BII) Program with engineering and technical support, as well as, support activities for the program.

 fielded products.

Funding for Turnkey projects end in 2015, all other funding line items continue through 2027. 2016 and beyond are solely recapitalizations.

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| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 <br> Item Number / Title [DODIC]: <br> - / 0303112F ITS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  | P-1 Line Item Number / Title: 835060 / Information Transport Systems |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| AF | Quantity | - | - | - | - | - |  | - | - | - |
|  | Total Obligation Authority | 102.429 | 74.621 | 40.043 | - | 40.043 |  | - | - | - |
| AFNG | Quantity | - | - | - | - | - |  | - | - | - |
|  | Total Obligation Authority | 4.507 | - | - | - | - |  | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | $\cdot$ | - | $\cdot$ |  | - | - | - |
|  | Total Obligation Authority | 106.936 | 74.621 | 40.043 | - | 40.043 | - | - | - | - |

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| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  | P-1 Line Item Number / Title: <br> 835060 / Information Transport Systems |  |  |  | Item Number / Title [DODIC]: - / 0303112F ITS |  |  |  |  |
| Cost Elements | O <br> c <br> 0 | 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 |
| BITI Turnkey Projects - AD Installation ${ }^{(\dagger)}$ |  | 2015 | VARIOUS/MULTIPLE <br> IVARIOUS/MULTIPLE | C/FFP | AFLCMC Hanscom AFB | Aug 2015 | Aug 2016 | 4 | 5.345 | Y |  | Jan 2015 |
| BITI Turnkey Projects - Reserve Installation ${ }^{(\dagger)}$ |  | 2015 | VARIOUS/MULTIPLE IVARIOUS/MULTIPLE | C/FFP | AFLCMC Hanscom AFB | Jul 2015 | Jul 2016 | 2 | 2.254 | Y |  | Oct 2014 |
| BITI Turnkey Modernization AD Installation ${ }^{(+)}$ |  | 2015 | VARIOUS/MULTIPLE IVARIOUS/MULTIPLE | C/FFP | AFLCMC Hanscom AFB | Feb 2016 | Feb 2017 | 2 | 3.068 | Y |  | Feb 2015 |
| BITI Recapitalization $\mathrm{AD}^{(+)}$ |  | 2015 | VARIOUS/MULTIPLE IVARIOUS/MULTIPLE | C/FFP | AFLCMC Hanscom AFB | Apr 2015 | Apr 2016 | 44 | 0.681 | Y |  | Feb 2015 |
| BITI Recapitalization $\mathrm{AD}^{(\dagger)}$ |  | 2016 | VARIOUS/MULTIPLE IVARIOUS/MULTIPLE | C/FFP | AFLCMC Hanscom AFB | Apr 2016 | Apr 2017 | 18 | 1.052 | Y |  | Feb 2016 |
| BITI Recapitalization $\mathrm{AD}^{(+)}$ |  | 2017 | VARIOUS/MULTIPLE IVARIOUS/MULTIPLE | C/FFP | AFLCMC Hanscom AFB | Jan 2017 | Jan 2018 | 2 | 1.819 | Y |  | Aug 2016 |
| BITI Recapitalization Reserve ${ }^{(\dagger)}$ |  | 2015 | VARIOUS/MULTIPLE IVARIOUS/MULTIPLE | C/FFP | AFLCMC Hanscom AFB | Apr 2015 | Apr 2016 | 5 | 0.486 | Y |  | Feb 2015 |

[^5]
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| Exhibit P-21, Production Schedule: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 Item Number / Title [DODIC]: - / 0303112F ITS |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 835060 / Information Transport Systems |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2015 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2016 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2015 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2016 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY |  |  | - | N O v | D E c | J A N | F E B | M A R | A P R | M A Y | J N | J u L | A U G | S E P | O c T | N | D E C | J A N | F | M A R | A P R | M A Y | J U N | J u L | A | S <br>  <br> $\mathbf{E}$ |  |
| BITI Turnkey Projects - AD Installation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 2015 | AF | 4 | - | 4 |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 |
| BITI Turnkey Projects - Reserve Installation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2015 | AF | 2 | - - | 2 |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - |  | 1 |  | - |
| BITI Turnkey Modernization AD Installation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2015 | AF | 2 | - - | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | 2 |
| BITI Recapitaization AD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 2015 | AF | 44 | - | 44 |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - |  |  | 4 | 4 | 4 | 4 | 20 |
| 4 | 2016 | AF | 18 | - | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | 18 |
| 4 | 2017 | AF | 2 | - | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
| BITI Recapitalization Reserve |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 2015 | AF | 5 | I | 5 |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - |  |  | 1 | 1 | 1 |  | - |
|  |  |  |  |  |  | O c c | N O v | D E c | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M <br>  <br> R | A <br>  <br> P <br> R | M A Y | J U $N$ | J | A | $\stackrel{\text { S }}{\text { E }}$ | O c c | N O v | D E c | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> P <br> R | M <br>  <br> Y | J u N | J | A | S |  |

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| Exhibit P-21, Production Schedule: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016Item Number / Title [DODIC]:$-/$ / 0303112F ITS |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 835060 / Information Transport Systems |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2017 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2018 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2017 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2018 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY |  | (e) $\begin{gathered}\text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ \text { 10CT }\end{gathered}$ | - | N | D E C c | J A N | F E B | M A R | A <br>  <br> $\mathbf{P}$ <br> R | M A Y | J U N | J | A | S <br>  <br> $\mathbf{E}$ <br> $\mathbf{P}$ | O <br> c <br> T | N | D <br> E <br> C | J A N | F | M A R | A P R | M A Y | J U N | ${ }_{\text {J }}^{\text {u }}$ | A | S <br> E <br> P |  |
| BITI Turnkey Projects - AD Installation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 2015 | AF | 4 | 4 1 | 31 | - | - | 1 | 1 | , |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| BITI Turnkey Projects - Reserve Installation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2015 | AF | 2 | $2{ }^{2}$ | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| BITI Turnkey Modernization AD Instalation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2015 | AF | 2 | 2 | 2 | - | - | - | - | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| BITI Recapitalization AD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 2015 | AF | 44 | 年 24 | 20 | 4 | 4 | 4 | 4 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| 4 | 2016 | AF | 18 |  | 18 | - | - | - | - | - | - |  | 2 | 2 | 3 | 3 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |  | - |
| 4 | 2017 | AF | 2 | 2 | 2 |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - |  |  |  |  |  |  |  |  |  | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  |  |  |  |  |  | $\stackrel{0}{\mathrm{c}}$ | N | D | ${ }_{\text {a }}$ | $\stackrel{F}{\mathrm{~F}}$ | M ${ }_{\text {A }}$ | A | M | J | J | A | S | $\stackrel{\mathrm{o}}{\mathrm{c}}$ | N | D | $\stackrel{\text { J }}{ }$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M | A <br> P | M | J | u | A | S |  |
|  |  |  |  |  |  | T | v | c | N | в | R | R | Y | N | L | G | P | T | v | c | N | в | R | R | Y | N | L | G | P |  |

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|  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F/03/5 |  |  |  |  | P-1 Line Item Number / Title: <br> 835060 / Information Transport Systems |  |  |  |  | Item Number / Title [DODIC]: - / 0303112F ITS |  |  |
| $\begin{array}{\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2017 | 1-8-5 For 2017 | MAX For 2017 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \begin{array}{c} \text { Manufacturing } \\ \text { PLT } \end{array} \\ \hline \end{array}$ | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Manufacturing } \\ \text { PLT } \\ \hline \end{gathered}$ | Total <br> After Oct 1 |
| 1 | VARIOUS/MULTIPLE VARIOUS/MULTIPLE | - | 3 | 7 | - | 11 | 12 | 23 | - | - | - | - |
| 2 | VARIOUS/MULTIPLE VARIOUS/MULTIPLE | - | 3 | 7 | - | 10 | 12 | 22 | - | - | - | - |
| 3 | VARIOUS/MULTIPLE VARIOUS/MULTIPLE | - | 3 | 7 | - | 17 | 12 | 29 | - | - | - | - |
| 4 | VARIOUS/MULTIPLE VARIOUS/MULTIPLE | - | 1 | 2 | - | 4 | 12 | 16 | - | - | - | - |
| 5 | VARIOUS/MULTIPLE VARIOUS/MULTIPLE | - | 1 | 2 | - | 7 | 12 | 19 | - | - | - | - |

## " 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).

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 835060 / Information Transport Systems |  |  |  |  |  |  |  | Aggregated Modification Items Title: AIR FORCE COMMUNICATIONS (AIRCOM) |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| BITI Modification 1 / BITI Mod/Recaps |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <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) |
| BITI Modification 1 / BITI Mod/Recaps |  |  | - | - | 56.710 | - | - | 58.750 | - | - | 59.787 | - | - | 60.863 | - | - | 407.332 | - | - | 643.442 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 19.830 |  | - | 33.027 |  | - | 48.436 |  | - | 43.516 |  | - | - |  | - | - |
| AFNG |  |  |  | - | 36.880 |  | - | 24.431 |  | - | 6.524 |  | - | 14.599 |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | 1.292 |  | - | 4.827 |  | - | 2.748 |  | - | - |  | - | - |
| Total |  |  | - | - | 56.710 | - | - | 58.750 | - | - | 59.787 | - | - | 60.863 | - | - | 407.332 | - | - | 643.442 |

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 |
| :--- | :--- | :--- |
| BITI Modification $1 /$ BITI Mod/Recaps | BITI | Capability Improvement |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

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

## P-1 Line Item Number / Title:

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, 0303089F, 0303112F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | FY 2017 Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 90.487 | 98.518 | 146.897 | - | 146.897 | 226.174 | 186.761 | 128.380 | 128.238 | - | 1,005.455 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 90.487 | 98.518 | 146.897 | - | 146.897 | 226.174 | 186.761 | 128.380 | 128.238 | - | 1,005.455 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 90.487 | 98.518 | 146.897 | - | 146.897 | 226.174 | 186.761 | 128.380 | 128.238 | - | 1,005.455 |
| (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:

No efforts within this exhibit are new starts.

 and CSCS \& AFINC are transitioning to 0303089F.





 Center Consolidation Initiative (FDCCI) and the Joint Information Environment (JIE) strategy.

PE 0207425F, AF NETWORK OPS AND COMMAND COMM
This PE was an FY16 single year PE placeholder specifically set up to execute AFNet requirements until transition to Weapon System PEs 0208088F \& 0303089F in FY17.
PE 0208088F, AF DEFENSIVE CYBERSPACE OPERATIONS (ACD) WEAPON SYSTEM





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P-1 Line \#40

## 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 |
| :--- | :--- |

## P-1 Line Item Number / Title:

835080 / AFNET

## Line Item MDAP/MAIS Code: N/A $\quad$ Item MDAP/MAIS Code(s): N/A

assessment, process management, blocking, vulnerability identification, investigation and containment. In addition, the ACD provides CNDSP (Computer Network Defense Service Provider) service system upgrades to the AFNet and several third party entities including Joint Strike Fighter, USTRANSCOM, and others. Efforts include, but are not limited to:

Host Based Security System upgrades, Next Generation Firewall and Full Packet Capture and Data Analytics Enterprise.
PE 0301400F, SPACE SUPERIORITY INTELLIGENCE
This PE executes requirements for SSI. Funds may be used for other AFNet requirements if required.
Cyber Situational Awareness Weapon System (CSAWS): Procures and installs equipment to connect 24th AF unfiltered traffic flow to 25th AF for PAD (Processing, Analysis and Distribution) enabling the first AF Cyber ISR collection and processing capability. Provides ISR based adversary cyber activity Indications and Warnings (I\&W) for Situational Awareness (SA). The effort procures a dedicated AF Cyber ISR platform (Remote Data Collector and Remote Data Processor) array that connects to the highest level at the network gateway locations to obtain unfiltered net-flow and packet capture (PCAP). This data is moved via long-haul to the 25th AF EI Dorado PAD systems for analysis. The fusion of all source intelligence and net flow analysis provides actionable CTA (Cyber Threat Advisories) reports to cyber operators for the appropriate and proactive actions.

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.
(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 Joint Regional Security Stacks (JRSS). Efforts include, but are not limited to:
AFNet NIPR Gateways (MAC-1 system) and SIPR Gateways (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, automatically initiating network defense countermeasures eliminating adversary ability to gain access to the enterprise which would diminish the AF information defense posture. GWs directly support cyber operations worldwide enabling war-fighting missions. Funding enables modification and equipment replacement for the system and its sub-components to respond to growing mission requirements and evolving cyber threats. Includes recapitalization of the Integrated Management System (IMS), which provides for real-time centralized management of network devices, and unifies the management/defense of AF networks and assets, 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 Joint Regional Security Stacks (JRSS).
(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 DoD Information Network (DoDIN) and the Air Force Information Network (AFIN). CSCS modifications support the following activities: fault resolution activities to maintain operational capabilities; lead-in coordinating 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 Joint Information Environment (JIE); upgrade to the Core Services and the Air Force Vulnerability Management (AFVM) and Network Management.
PE 0303112F, AIR FORCE COMMUNICATION (AIRCOM)
In FY17, funding in this PE will reallocate to the CSCS, ACD, and AFINC weapon system PEs to fund their block mods. As part of the transition of AFNet to the three weapon systems, AF will realign funding into the weapon system PEs in a future budget cycle.

Funding for this exhibit contained in PEs 0204725F, 0208088F, 0301400F, 0303089F, 0303112F.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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, 0303089F, 0303112F |
| :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |


| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Exhibit } \\ \text { Type } \\ \hline \end{gathered}$ | Title* | Subexhibits | $\begin{array}{\|l\|l} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | AF Network Ops and Command Comms |  |  | - 10.000 | - 1- | - 149.049 | - 1- | - 1- | - 1 |
| P-3a | 1 / ACD WS 0208088F (Reliability \& Maintainability) |  |  | 1 | 1 | 1 - | - 17.736 | - 1 - | - 17.736 |
| P-5 | Space Superiority Intelligence |  | A | 1 | 1 | - 12.337 | - 15.110 | - 1 - | - 15.110 |
| P-3a | $1 /$ AFINC/CSCS WS 0303089 (Reliability \& Maintainability) |  |  | - 1 - | 1 | - / 17.684 | - /105.586 | 1 | - / 105.586 |
| P-3a | $1 /$ AFNET (Reliability \& Maintainability) |  |  | - 1 - | - 190.487 | - 129.448 | - 128.465 | 1 | - 128.465 |
| P-40a | Joint Information Environment (JIE) |  |  | - 1 - | - 1 | 1 | 1 | 1 | - 1 |
| P-40 | Total Gross/Weapon System Cost |  |  | 1 | - 190.487 | - 198.518 | - /146.897 | 1 | - /146.897 |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 Network Ops and Command Comms |  |  | - 1 | - 1 - | - 1 - | 1 | - 1 - | - /49.049 |
| P-3a | $1 /$ ACD WS 0208088 F (Reliability \& Maintainability) |  |  | - 121.533 | - 121.931 | - 122.330 | - 122.731 | 1 | - 196.261 |
| P-5 | Space Superiority Intelligence |  | A | - /11.336 | - 19.287 | - 19.480 | - 19.651 | 1 - | - $/ 47.201$ |
| P-3a | $1 /$ AFINC/CSCS WS 0303089 (Reliability \& Maintainability) |  |  | - /120.753 | - 199.385 | - 177.331 | - 178.650 | - 1 - | - 1499.389 |
| P-3a | $1 /$ AFNET (Reliability \& Maintainability) |  |  | - 138.905 | - $/ 40.192$ | - 18.125 | - 17.810 | 1 - | - 1243.432 |
| P-40a | Joint Information Environment (JIE) |  |  | - / 33.647 | - / 15.966 | - /11.114 | - 19.396 | 1 - | - 170.123 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1226.174 | - /186.761 | - /128.380 | - 1128.238 | 1 - | - 11,005.455 |

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

## Justification:

 Network (AFNet) Systems and modification efforts within all three major weapon system components (ACD, AFINC \& CSCS).

PE 0207425F, AF NETWORK OPS AND COMMAND COMM
Procures and installs AFNet/Weapon System requirements in FY16. No budget year (FY17) funding requested.
PE 0208088F, AF DEFENSIVE CYBERSPACE OPERATIONS (ACD) WEAPON SYSTEM
Procures and installs active defensive counter cyberspace systems and situational awareness capabilities.
PE 0301400F, SPACE SUPERIORITY INTELLIGENCE
 Cyber ISR collection and processing capability. Provides ISR based adversary cyber activity Indications and Warnings (I\&W) for Situational Awareness (SA).

## Appropriation / Budget Activity / Budget Sub Activity: $\quad$ P-1 Line Item Number / Title: <br> 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, 0303089F, 0303112F
Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A

PE 0303089F, CYBERSPACE OPERATIONS SYSTEMS
(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 Joint Regional Security Stacks (JRSS).
(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 DoD Information Network (DoDIN) and the Air Force Information Network (AFIN).
PE 0303112F, AIR FORCE COMMUNICATION (AIRCOM)
In FY17, funding in this PE will reallocate to the CSCS, ACD, and AFINC weapon system PEs to fund their block mods. As part of the transition of AFNet to the three weapon systems, AF will realign funding into the weapon system PEs in a future budget cycle.

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force ${ }^{\text {a }}$ ( ${ }^{\text {a }}$ ( |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 835080 / AFNET |  |  |  |  |  |  |  | Aggregated Modification Items Title: AF Network Ops and Command Comms |  |  |  |  |
|  | $\left.\begin{array}{\|l\|} \mathrm{ID} \\ \mathrm{CD} \end{array} \right\rvert\,$ | $\begin{aligned} & \text { MDAPI } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | 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) | 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) |
| AFNET Ops and Command Comms AFNET Ops and Command Comms |  |  | - | - | - | - | . | - | - | - | 49.049 | - | . | - | - | - |  | - |  | - |
| Total |  |  | - | - | 0.000 | - | - | $\cdot$ | - | - | 49.049 | - | - | - | - | - |  | - |  |  |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> 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 <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) |
| AFNET Ops and Command Comms / AFNET Ops and Command Comms |  |  | - | - | - | - | - | - | - | - | - | - |  | - | - |  |  | - |  | 49.049 |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | 49.049 |

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 |
| :--- | :--- | :--- |
| AFNET Ops and Command Comms / <br> AFNET Ops and Command Comms | ACD-AFINC-CSCS | Reliability \& Maintainability |

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| Exhibit P-3a, Individual Modific | n: PB | 17 Air F |  |  |  |  |  |  | Date: | bruary 20 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activit 3080F / 03 / 5 | Budget | ub Activit |  | ine Item 80 / AFNE | umber / |  |  |  | Modific $1 \text { / ACD }$ | tion Num WS 02080 | ber / Title: 88F |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 7.736 | - | 7.736 | 21.533 | 21.931 | 22.330 | 22.731 | - | 96.261 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Milions) | - | - | - | 7.736 | - | 7.736 | 21.533 | 21.931 | 22.330 | 22.731 | - | 96.261 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 7.736 | - | 7.736 | 21.533 | 21.931 | 22.330 | 22.731 | - | 96.261 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Milions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This PE is not a new start.
The AFNet exhibit includes both weapon system and non-weapon system requirements.
PE 0208088F, AF DEFENSIVE CYBERSPACE OPERATIONS (ACD) WEAPON SYSTEM
Requirements for ACD have been funded previously in 0303112F and 0207425F as part of the AFNet 835080 P-Doc. Funds may be used for other AFNet requirements if required.
Procures and installs active defensive counter cyberspace operations and situational awareness capabilities in a NetD role to achieve cyberspace superiority for assigned missions. ACD procurements allow for 24/7/365 monitoring and defense of US Air Force and US Central Command, and Third Party SIPR/NIPR computer networks against hostile attacks as well as intrusion detection, network traffic analysis, network forensics analysis, countermeasure development and execution, and incident response. ACD provides indication and warning, correlation, logging, vulnerability remediation, assessment, process management, blocking, vulnerability identification, investigation and containment. In addition, the ACD provides CNDSP (Computer Network Defense Service Provider) service systems upgrades to the AFNet and several third party entities including Joint Strike Fighter, USTRANSCOM, and others. Efforts include, but are not limited to:
Host Based Security System upgrades, Next Generation Firewall and Full Packet Capture and Data Analytics Enterprise.
FY17 funds will procure updates via 1067s requiest for ACD which includes, but is not limited to, Host Based Security System upgrades and Data Analytics.
Milestone/Development Status
Sustainment

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  | P-1 Line Item Number / Title: 835080 / AFNET |  |  |  |  |  | Modification Number / Title: 1 / ACD WS 0208088F |  |  |  |
| Models of Systems Affected: ACD | Modification Type: Reliability \& Maintainability $\quad$ Related RDT\& |  |  |  |  |  |  |  | \&E PEs: 03 | 303112F |  |  |
|  | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{array}{\|c\|c\|c\|c\|c\|c\|} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: ACD MODs |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| ACD MODs:EQUIPMENT Group B (Active) | - 1 - | - 1 - | - 1 - | 1/6.376 | 1. | 1/6.376 | 1/17.744 | 1/18.072 | 1/18.401 | 1/18.731 | 1 | 5/79.324 |
| Subtotal: Recurring | 1. | 1 | 1 | - 16.376 | 1. | - 16.376 | - /17.744 | - /18.072 | - /18.401 | - /18.731 | - 1 - | - 179.324 |
| Subtotal: ACD MODs | 1 | 1 | 1 | - 16.376 | $1-$ | - 16.376 | - /17.744 | - /18.072 | - /18.401 | - /18.731 | - 1 - | - 179.324 |
| Subtotal: Procurement, All Modification Items | - 1- | - 1 - | - 1- | - 16.376 | - $1-$ | - 16.376 | - /17.744 | - /18.072 | - /18.401 | - /18.731 | - 1. | - 179.324 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA - Contractor Services | - 1- | - 1 - | - 1 - | - 10.734 | - 1 - | - 10.734 | - 12.045 | - 12.083 | - 12.121 | - 12.159 | 1 | - 19.142 |
| PMA - Other Gov't Costs | - 1 - | - 1 - | $1-$ | - 10.626 | $1-$ | - 10.626 | - 11.744 | - 11.776 | - 11.808 | - 11.841 | 1 | - 17.795 |
| Subtotal: Support | - $/$ - | - $/$ - | - 1 - | - 11.360 | - $1-$ | - 11.360 | - 13.789 | - 13.859 | - 13.929 | - /4.000 | -1. | /16.937 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - 1 - | - 1 - | - 1 - | - 1 - | 1. | 1. | - 1 - | - 1 - | 1 | - 1 - | - 1 - | 1. |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | - | $\cdot$ | 7.736 | - | 7.736 | 21.533 | 21.931 | 22.330 | 22.731 | - | 96.261 |

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  | P-1 Line Item Number / Title: 835080 / AFNET |  |  | Modification Number / Title: 1 / ACD WS 0208088F |  |
| Modification Item 1 of 1: ACD MODs |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Multiple |  |  |  | Manufacturer Location: Various |  |  |  |
| Administrative Leadtime (in Months): 0 |  |  |  | Production Leadtime (in Months): 12 |  |  |  |
| Dates | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Contract Dates |  |  | May 2017 | May 2018 | May 2019 | May 2020 | May 2021 |
| Delivery Dates |  |  | May 2018 | May 2019 | May 2020 | May 2021 | May 2022 |

Installation Information


Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F/03/5ID Code (A=Service Ready, $B=$ Not Service Ready : A

P-1 Line Item Number / Title: 835080 / AFNET

Date: February 2016

## Item Number / Title [DODIC]:

- / Space Superiority Intelligence

| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2017$ <br> Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 2.337 | 5.110 | - | 5.110 | 11.336 | 9.287 | 9.480 | 9.651 | - | 47.201 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 2.337 | 5.110 | - | 5.110 | 11.336 | 9.287 | 9.480 | 9.651 | - | 47.201 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 2.337 | 5.110 | - | 5.110 | 11.336 | 9.287 | 9.480 | 9.651 | - | 47.201 |

(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) |


| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |


| Hardware - AF Cyber ISR Platform Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prime Contractor | - | - | - | - | - | - | 1.469 | 1 | 1.469 | 4.235 | 1 | 4.235 | - | - | - | 4.235 | 1 | 4.235 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | 1.469 | - | - | 4.235 | - | - | - | - | - | 4.235 |
| Subtotal: Hardware - AF Cyber ISR Platform Cost | - | - | - | - | - | - | - | - | 1.469 | - | - | 4.235 | - | - | - | - | - | 4.235 |
| Support - AF Cyber ISR Platform Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA Contractor Support | - | - | - | - | - | - | - | - | 0.868 | - | - | 0.875 | - | - | - | - | - | 0.875 |
| Subtotal: Support - AF Cyber ISR Platform Cost | - | - | - | - | - | - | - | - | 0.868 | - | - | 0.875 | - | - | - | - | - | 0.875 |
| Gross/Weapon System Cost | - | - | - | - | - | - | - | - | 2.337 | - | - | 5.110 | - | - | - | - | - | 5.110 |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Hardware - AF Cyber ISR Platform Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prime Contractor | 10.316 | 1 | 10.316 | 8.452 | 1 | 8.452 | 8.627 | 1 | 8.627 | 8.783 | 1 | 8.783 | - | - | - | 6.980 | 6 | 41.882 |
| Subtotal: Non Recurring Cost | - | - | 10.316 | - | - | 8.452 | - |  | 8.627 |  | - | 8.783 | - | - |  |  |  | 41.882 |

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  |  |  | P-1 Line Item Number / Title: 835080 / AFNET |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> - / Space Superiority Intelligence |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Cost Elements | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | 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 (\$ M) |
| Subtotal: Hardware - AF <br> Cyber ISR Platform Cost | - | - | 10.316 | - | - | 8.452 | - | - | 8.627 | - | - | 8.783 | - |  | . | - | - | 41.882 |
| Support - AF Cyber ISR Platiorm Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA Contractor Support | - | - | 1.020 | - | - | 0.835 | - | - | 0.853 | - | - | 0.868 | - | - | - | - | - | 5.319 |
| Subtotal: Support - AF Cyber ISR Platform Cost | - | - | 1.020 | - | - | 0.835 | - | - | 0.853 | - | - | 0.868 | - | - | - | - | - | 5.319 |
| Gross/Weapon System Cost | - |  | 11.336 | - |  | 9.287 | - |  | 9.480 | - |  | 9.651 | - |  | - | - |  | 47.201 |

Exhibit P-3a, Individual Modification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

## 3080F/03/5

| 835080 / AFNET |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 17.684 | 105.586 | - | 105.586 | 120.753 | 99.385 | 77.331 | 78.650 | - | 499.389 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 17.684 | 105.586 | - | 105.586 | 120.753 | 99.385 | 77.331 | 78.650 | - | 499.389 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 17.684 | 105.586 | - | 105.586 | 120.753 | 99.385 | 77.331 | 78.650 | - | 499.389 |

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)
Initial Spares (\$ in Millions)
Gross/Weapon System Unit Cost (\$ in Millions)

## Description:

No efforts within this exhibit are new starts.
The AFNet exhibit includes both weapon system and non-weapon system requirements.
This PE executes requirements for both CSCS and AFINC weapon systems. Funds may be used for other AFNet requirements if required.
 Joint Regional Security Stacks (JRSS). Efforts include, but are not limited to:





 provides for real-time centralized management of network devices, and unifies the management/defense of AF networks and assets.


 infrastructure; and continuous network situational awareness. Efforts include, but are not limited to:
Data Center Consolidation and migration to the Joint Information Environment (JIE); upgrades to Core Services and Air Force Vulnerability Management (AFVM) and Network Management.
 Installation Processing Note (IPN) Boundary Effort modification. AFINC includes, but is not limited to, Gateway e-mail security/DNS upgrades.
Milestone/Development Status
Sustainment

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  | P-1 Line Item Number / Title: 835080 / AFNET |  |  |  |  |  | Modification Number / Title: <br> 1 / AFINC/CSCS WS 0303089 |  |  |  |
| Models of Systems Affected: AFINC-CSCS-WS |  | Modification Type: Reliability \& Maintainability |  |  |  |  | Related RDT\&E PEs: 0303112F |  |  |  |  |  |
|  | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: AFINC/CSCS WS MODs |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| AFINC/CSCS WS MODs:EQUIPMENT Group B (Active) | - 1- | - 1- | 1/14.573 | 1/87.004 | - 1- | 1/87.004 | 1/99.502 | 1/81.894 | 1/63.722 | 1/64.809 | - 1 | 6/411.504 |
| Subtotal: Recurring | - 1- | - 1 - | - /14.573 | - /87.004 | - 1- | - /87.004 | - 199.502 | - /81.894 | - /63.722 | - 164.809 | - 1- | - /411.504 |
| Subtotal: AFINC/CSCS WS MODs | - 1- | - 1 - | - /14.573 | - /87.004 | 1 | - /87.004 | - 199.502 | - /81.894 | - /63.722 | - 164.809 | - / - | - /411.504 |
| Subtotal: Procurement, All Modification Items | - / - | - 1 - | - /14.573 | - /87.004 | - / - | - /87.004 | - /99.502 | - /81.894 | - /63.722 | - /64.809 | - 1- | - /411.504 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA - Contractor Services | - 1- | - 1 - | - 11.679 | - /10.030 | 1 | - /10.030 | - /11.471 | - 19.441 | - 17.346 | - 17.471 | - 1 | - 147.438 |
| PMA - Other Gov't Costs | - 1 - | - 1 | - 11.432 | - 18.552 | 1 | - 18.552 | - 19.780 | - 18.050 | - 16.263 | - 16.370 | - 1 | - 140.447 |
| Subtotal: Support | - 1- | 1 | - /3.111 | - /18.582 | 1 | - /18.582 | - /21.251 | - /17.491 | - /13.609 | - /13.841 | - / | - 187.885 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - 1 - | - 1 - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - 1- |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | - | 17.684 | 105.586 | - | 105.586 | 120.753 | 99.385 | 77.331 | 78.650 | - | 499.389 |

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |
| Modification Item 1 of 1: AFINC/CSCS WS MODs |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Multiple |  |  |  | Manufacturer Location: Various |  |  |  |
| Administrative Leadtime (in Months): 0 |  |  |  | Production Leadtime (in Months): 12 |  |  |  |
| Dates | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Contract Dates |  | May 2016 | May 2017 | May 2018 | May 2019 | May 2020 | May 2021 |
| Delivery Dates |  | May 2017 | May 2018 | May 2019 | May 2020 | May 2021 | May 2022 |

Installation Information
Method of Implementation (Organic): Org/Intermediate
Installation Quantity: 0

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  | P-1 Line Item Number / Title: 835080 / AFNET |  |  | Modification Number / Title: 1 / AFNET |  |
| Modification Item 1 of 1: AFNET Mod |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Multiple |  |  |  | Manufacturer Location: N/A |  |  |  |
| Administrative Leadtime (in Months): 0 |  |  |  | Production Leadtime (in Months): 12 |  |  |  |
| Dates | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Contract Dates | May 2015 | May 2016 | May 2017 | May 2018 | May 2019 | May 2020 | May 2021 |
| Delivery Dates | May 2016 | May 2017 | May 2018 | May 2019 | May 2020 | May 2021 | May 2022 |

Installation Information
Method of Implementation (Organic): Org/Intermediate
Installation Quantity: 2

UNCLASSIFIED


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 2017 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | - | 5.199 | 5.182 | - | 5.182 | 5.086 | 5.175 | 5.267 | 5.362 | - | 31.271 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | - | 5.199 | 5.182 | - | 5.182 | 5.086 | 5.175 | 5.267 | 5.362 | - | 31.271 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | - | 5.199 | 5.182 | - | 5.182 | 5.086 | 5.175 | 5.267 | 5.362 | - | 31.271 |
| (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:






 1 /3rd fair share of JCSE's validated equipment replacement plan.

Funding for this exhibit in contained in PE 0207422F, Deployable Command, Control, and Communications (C3) Systems.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
P-1 Line Item Number / Title:
835110 / Joint Communications Support Element (JCSE) 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | Joint Communications Support Element (JCSE) |  |  | - 10.000 | - 1- | - 15.199 | - 15.182 | 1 | - 15.182 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 10.000 | - 1 | - 15.199 | - 15.182 | - 1 - | - 15.182 |

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

## Justification:

JCSE: FY2017 base funding in the amount of $\$ 5.182 \mathrm{M}$ procures communications equipment based on Strategic Planning Guidance; which includes the maximum capabilities for large and small aperture mobile satellite systems, Everything over Internet Protocol (EoIP), Airborne/En-Route, and terrestrial and single-channel equipment. Currently employed commercial-off-the-shelf (COTS) equipment is approaching the end of its life cycle and requires replacement to meet the program goals which include meeting emerging real-world operational requirements with maximum capabilities, smallest possible footprint, lowest operations and maintenance costs, and seamless integration with the global information grid. This equipment is a critical part of Command and Control communications packages that provide direct operational support to joint forces and HQ elements deployed to austere locations around the globe. Per the Planning Guidance, the Air Force is mandated to fund one-third of the fair share of JCSE's validated equipment replacement plan. JCSE's Program is built/restructured based on Combatant Command (CCMD) and Service Components' requirements and emerging technologies. Service's influence JCSE's spending plan through recommendations in concert with MDAP schedules, ensuring that Service dollars meet Joint Service requirements.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 03 / 5$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 835110 / Joint Communications Support Element (JCSE) |  |  |  |  |  |  |  | Aggregated Items Title: Joint Communications Support Element (JCSE) |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | 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) |
| JCSE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| JCSE Deployable C3 Systems | A |  | - | - | 0.000 | - | - | - | 5.199 | 1 | 5.199 | 5.182 | 1 | 5.182 | - | - |  | 5.182 | 1 | 5.182 |
| Subtotal: JCSE |  |  | - |  | 0.000 | - |  | - | - | - | 5.199 | - | - | 5.182 | - | - |  | - | - | 5.182 |
| Total |  |  | - | - | 0.000 | - | - | - | - | - | 5.199 | - | - | 5.182 | - | - | - | - | $\cdot$ | 5.182 |

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 2017 Air Force
Date: February 2016

## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 16.342 | 25.780 | 13.418 | - | 13.418 | 18.541 | 17.334 | 17.638 | 17.955 | - | 127.008 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 16.342 | 25.780 | 13.418 | - | 13.418 | 18.541 | 17.334 | 17.638 | 17.955 | - | 127.008 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 16.342 | 25.780 | 13.418 | - | 13.418 | 18.541 | 17.334 | 17.638 | 17.955 | - | 127.008 |
| (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.

USCENTCOM COMMAND AND CONTROL SYSTEMS: Effort will provide end of life cycle 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 the CENTCOM Partner Network (CPN) which provides a new secure network 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 USCENTCOM
Refurbishes Deployable Tactical Air Navigation (DTACAN) Systems

## 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.

Exhibit P-40, Budget Line Item Justification: PB 2017 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 | Item MDAP/MAIS Code(s): N/A |
| :--- | :--- |


| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 |  |  | - 10.000 | - 13.823 | - 12.509 | - 14.736 | - 1 - | 14.736 |
| P-40a | Service Support to USCENTCOM - Communications |  |  | - 10.000 | - / 12.519 | - / 10.191 | - 18.682 | 1 | 18.682 |
| P-40a | MQ-9 UAV |  |  | - 10.000 | - 1 | - / 13.080 | 1 | - 1 - | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  | - 10.000 | - /16.342 | - 125.780 | - /13.418 | - 1 - | - 113.418 |


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

## Justification:

This program, PE 0205219F P-40A Item Contractor Service, is a new start.
PE 0201122F USCENTCOM COMMUNICATIONS
USCENTCOM COMMAND AND CONTROL SYSTEMS: FY17 funding will procure C4 equipment items required for HQ USCENTCOM, MacDill AFB, FL, Disaster Recovery Site (Site X), and CENTCOM Forward HQ at AI Udeid, Qatar, to effectively conduct communications support missions impacting Command and Control (C2) and operational missions conducted by the Commander and staff. The C4/Information 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. Without OPAF funding, the vital end of life replacement of communications equipment directly supporting all C2 and C4 operations will be at significant risk and will catastrophically affect the ability of the ongoing contingency operational missions across the AOR.

STORAGE CAPABILITIES: HQ CENTCOM and CENTCOM Forward HQ require maximum storage capabilities to maintain a level of readiness, reduce server footprint, and continue capabilities as they are implemented.

PE 0201131F AIR COMBAT COMMAND (ACC) COMMUNICATIONS FY17 funds will provide:
BASE COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, AND INTELLIGENCE (C4I) INFRASTRUCTURE. This FY17 effort will support communications CENTCOM Theater Posture Plan (TPP) locations identified for post OEF support. This effort is required at several AFCENT locations in the AOR and will provide critical infrastructure to support the transition to the Joint Information Environment, as required by DoD CIO mandate.

SWA-THEATER ENTERPRISE REQUIREMENTS - To meet Unified Capabilities (UC) requirements as required by DoD mandate, and USCENTCOM FRAGO directing components to transition to an IPconverged architecture by 2017, AFCENT must replace legacy Promina equipment at GSUs. AFCENT must also procure new systems to support contingency operations and base opening/closure requirements, which average 2 base openings and/or closures per year regardless of new or ongoing contingencies.

JOINT INFORMATION ENVIRONMENT: Implementation of JIE at MacDill AFB with CENTCOM acting as the possible regional node.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
P-1 Line Item Number / Title:
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 $\quad$ Item MDAP/MAIS Code(s): N/A

FY17 effort will continue to support infrastructure and services essential secure networks for bilateral and multilateral information up to the secret releasable level. Support the networks and cross domain solution necessary to securely and safely integrate coalition sensors and C2 capabilities with or C2 efforts. Includes integration of Coalition LNOs into our Combined Air Operations Center at AUAB

USCENTCOM. FY17 funding Refurbishes of Deployable Tactical Air Navigation (DTACAN) Systems

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## Remarks:



 communications equipment directly supporting all C 2 and C 4 operations will be at significant risk and will catastrophically affect the ability of enduring operational missions across the AOR.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 835140 / USCENTCOM |  |  |  |  |  |  |  | Aggregated Items Title: <br> Service Support to USCENTCOM Communications |  |  |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
|  |  |  | 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) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AIR TRAFFIC CONTROL SYSTEMS FOR AFGHANISTAN | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Deployable Tactical Air Navigation (DTACAN) | A |  | - | - | - | - | - | - | - | - | - | 3.800 | 1 | 3.800 | - | - | - | 3.800 | 1 | 3.800 |
| DEPLOYABLE Ku-BAND EARTH TERMINAL (DKET) REPLACEMENT | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BASE C4I SUPPORT | A |  | - | - | 0.000 | 0.875 | 6 | 5.250 | 0.561 | 5 | 2.803 | 0.300 | 5 | 1.500 | - | - | - | 0.300 | 5 | 1.500 |
| SWA-THEATER ENTERPRISE REQUIREMENTS | A |  | - | - | 0.000 | 1.500 | 2 | 3.000 | 1.500 | 2 | 3.000 | 0.417 | 3 | 1.250 | - | - | - | 0.417 | 3 | 1.250 |
| JOINT <br> INFORMATION ENVIRONMENT CAPABILITIES | A |  | - | - | 0.000 | 0.505 | 6 | 3.030 | 0.505 | 7 | 3.535 | 0.233 | 6 | 1.400 | - | - | - | 0.233 | 6 | 1.400 |
| AFCENT PMA Other Government Costs | A |  | - | - | 0.000 | - | - | 0.239 | - | - | 0.250 | - | - | 0.490 | - | - | - | - | - | 0.490 |
| AFCENT PMA Contract Service | A |  | - | - | 0.000 | - | - | 1.000 | - | - | 0.603 | - | - | 0.242 | - | - | - | - | - | 0.242 |
| Subtotal: Uncategorized |  |  | - | - | 0.000 | - | - | 12.519 | - | - | 10.191 | - | - | 8.682 | - | - | - | - | - | 8.682 |
| Total |  |  | - | - | 0.000 | - | - | 12.519 | - | - | 10.191 | - | - | 8.682 | - | - | - | - | - | 8.682 |

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

## Remarks:

a. Controlled Item will be funded with investment funds to purchase military communications equipment classified as critical protection items
b. End of life or Capital equipment replacement

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: MQ-9 UAV |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 835140 / USCENTCOM |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | Qty <br> (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | Qty <br> (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) |
| Hardware |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relay site equipment | A |  | - | - | 0.000 | - | - | - - | 3.000 | 1 | 3.000 | - | - | - | - | - | - | - | - | - |
| Squadron Operations Center equipment | A |  | - | - | - | - | - | - | 8.154 | 1 | 8.154 | - | - | - | . | - | - | - | - | - |
| Subtotal: Hardware |  |  | $\bullet$ | - | 0.000 | - | - | $\cdot$ | - | - | 11.154 | $\cdot$ | $\cdot$ | - | - | $\cdot$ | - | - | - | - |
| PMA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Contractor Service | A |  | - | - | 0.000 | - | - | - - | - | - | 1.876 | - | - | - | - | - | - | - | - | - |
| Other Government Services | A |  | - | - | 0.000 | - | - | - | - | - | 0.050 | - | - | - | - | - | - | - | - | - |
| Subtotal: PMA |  |  | - | - | 0.000 | - | - | - - | - | - | 1.926 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 0.000 | - | $\cdot$ | - | - | - | 13.080 | - | - | - | - | - | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 6: Space Programs

## P-1 Line Item Number / Title:

836700 / Family of Beyond Line-of-Sight Terminals

| ID Code (A=Service Ready, B=Not Service Ready): B |  |  | Program Elements for Code B Items: 0303001F |  |  |  |  | Other Related Program Elements: 0303601F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 199 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 52.278 | - | - | - | - | - | - | - | - | 84.900 | 137.178 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 52.278 | - | - | - | - | - | - | - | - | 84.900 | 137.178 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 52.278 | - | - | - | - | - | - | - | - | 84.900 | 137.178 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 12.112 | 44.436 | - | - | - | - | - | - | - | - | 56.548 |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) program replaces legacy Milstar terminals and will provide Extremely High Frequency (EHF), protected high data rate communication for nuclear and conventional forces to include Presidential and National Voice Conferencing (PNVC). FAB-T will provide this new, highly secure, state-of-the-art capability for DoD platforms to include strategic platforms and airborne/ground command posts via Milstar, AEHF, and Enhanced Polar System (EPS) satellites. FAB-T terminals will also support the critical command and control (C2) of the Milstar, AEHF and EPS satellite constellations. In June 2014 the Air Force down-selected to Raytheon for production of FAB-T Command Post Terminals (CPT). Production contract options to produce CPT terminals were exercised after a successful Milestone C decision was approved September 1, 2015.

There are two P-5s contained in this document because there are two distinct Program Elements(PE) encompassed within this document. In FY15 FAB-T transferred to this current Line Item Number 836700 . In FY16, FAB-T transferred from PE 0303601F to PE 0303001F. Therefore both PE 030601F and 0303001F have a P-5 document.

In the prior years through FY14, FAB-T was in Line Item Number 836780.


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| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 836700 / Family of Beyond Line-of-Sight Terminals |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> - / Family of Advanced BLoS Terminals (FAB-T) |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ |
| Hardware - 0303601F MILSATCOM Space 0303001F FBLOST Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FAB-T Terminals (PE 33601F/33001F) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 84.900 | 14.175 | 9 | 127.578 |
| Technical Mission Analysis (WS) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.000 |
| Enterprise SE\&1 (WS) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.600 |
| GFE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.300 |
| PNVC Prime | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 84.900 | - | - | 132.478 |
| Subtotal: Hardware 0303601F MILSATCON Space 0303001F FBLOST cost | . | . | - | - | - | - | - | - | - | - | - | - | - | - | 84.900 | - | . | 132.478 |
| Support - 0303001F FBLOST Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A\&AS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.300 |
| Other Support | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.400 |
| Subtotal: Support 0303001F FBLOST Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.700 |
| Gross/Weapon System <br> Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 84.900 | - | - | 137.178 |

## Remarks:

This P-Doc incorporates two Program Elements for FAB-T: PE 0303601F - Prior years through FY15; and PE 0303001F - FY16 and out.
To complete cost is for the Force Element Terminals (FET) which is a sub-program under FAB-T. Cost information is based solely on the Air Force Service Cost Position estimate for the FETs. Currently there is no approved acquisition strategy or funding for the FAB-T FETs

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0604441F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 210 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 144.281 | 31.293 | - | - | - | - | - | - | - | - | - | 175.574 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 144.281 | 31.293 | - | - | - | - | - | - | - | - | - | 175.574 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 144.281 | 31.293 | - | - | - | - | - | - | - | - | - | 175.574 |
| (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 exhibit will display values for FY15 and prior; funding for FY16 and beyond are displayed in SPAF. Total 3080/3021 procurement funding is $\$ 380.320 \mathrm{M}$.

This exhibit will display values in "Prior Years, PY, and Total (for 3080)" only; FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits.
Note 2: The flyaway unit cost is not included on the P-40 exhibit because there are multiple P-5 Cost Analysis exhibits.



 0604441F, SBIRS High. Production funding for SBIRS satellites is in MPAF and SPAF PE 0305915F.


 antenna equipment, aging electrical equipment and cabling, and unsupportable data processing subsystem components. Funding for this effort is in program element 0305915F.
 supports the USSTRATCOM Integrated Nuclear Survivable and Endurable Report (INSER) to the Joint Staff, Secretary of Defense, and Congress. Funding was provided in FY15 only.




## UNCLASSIFIED

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-
P-1 Line \#44
Volume 1-365

## Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
P-1 Line Item Number / Title:
836720 / Space Based Ir Sensor Pgm Space Equip / BSA 6: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0604441F

## Line Item MDAP/MAIS Code: 210 Item MDAP/MAIS Code(s): N/A




 effort is in program element 0305915F.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs |  |  |  |  | P-1 Line Item Number / Title: 836720 / Space Based Ir Sensor Pgm Space |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0604441F |  |  |  |
| Line It | m MDAP/MAIS Code: 210 Item M | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \\ & \hline \end{aligned}$ | 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 | SBIRS Mobile System \& Fixed Comm Electronics Upgrades |  | A | $7 / 20.447$ | 1/5.193 | - 1 - |  | - 1 | 1 |
| P-5 | SBIRS Survivable Endurable Evolution (S2E2) | P-5a, P-21 | A | 2/123.834 | 1/26.100 | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  | - / 144.281 | - /31.293 | - 1 - | - 1 | - 1 - | 1 |
|  | Exhibits Schedule |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \\ & \hline \end{aligned}$ | 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 | SBIRS Mobile System \& Fixed Comm Electronics Upgrades |  | A | - 1 | - 1 | - 1 - | - 1 - | - | 8/25.640 |
| P-5 | SBIRS Survivable Endurable Evolution (S2E2) | P-5a, P-21 | A | - 1 | 1 | - 1 - | - 1 - | - | 3/149.934 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1 - | 1 | - 1 - | - 1 - | - 1 - | - /175.574 |

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

Justification:
N/A


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| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 03 / 6$ |  |  |  |  |  | P-1 Line Item Number / Title: <br> 836720 / Space Based Ir Sensor Pgm Space |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> - I SBIRS Mobile System \& Fixed Comm Electronics Upgrades |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ |
| 1. SBIRS Mobile Systems \& Fixed Site Comm Electronics Upgrades | - | - | - | - | - | - | - | - | - | - | - | - | - | . | - | 25.640 | 1 | 25.640 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 25.640 |
| $\begin{aligned} & \text { Subtotal: Hardware - SBIRS } \\ & \text { Mobile System Cost } \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 25.640 |
| Support - SBIRS Mobile System Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Support | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - SBIRS Mobile System Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.205 | 8 | 25.640 |

## Remarks:

Note 1: Starting in FY16 funding has been re-categorized from Other Procurement (3080) to Space Procurement Air Force (SPAF/3021).
Note 2: FY15 funding provides for HEMP site upgrades and testing requirements at Survivable Mission Control Station (SMCS) at Buckley.


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Exhibit P-5, Cost Analysis: PB 2017 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 03$ / 6 | P-1 Line Item Number / Title: <br> 836720 / Space Based Ir Sensor Pgm Space |
| :--- | :--- |

## P-1 Line Item Number / Title:

## 836720 / Space Based Ir Sensor Pgm Space

Date: February 2016

## Item Number / Title [DODIC]:

- / SBIRS Survivable Endurable Evolution (S2E2)

ID Code (A=Service Ready, B=Not Service Ready) : A Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) |
| Subtotal: Non Recurring Cost | - | - | 27.351 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Software - SBIRS <br> Survivable Endurable <br> Evolution (S2E2) Cost | - | - | 27.351 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | 61.917 | 2 | 123.834 | 26.100 | 1 | 26.100 | - | - | - | - | - | - | - |  | - | - | - | - |
|  |  | Y 2018 |  |  | Y 2019 |  |  | Y 2020 |  |  | Y 2021 |  |  | Compl |  |  | tal Cos |  |
| 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |

Hardware - SBIRS Survivable Endurable Evolution (S2E2) Cost

| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.5 S2E2 SMGT ${ }^{(\dagger)}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 36.461 | 3 | 109.383 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 109.383 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.2 S2E2 Software Integration Facility (SIF) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.200 | 1 | 5.200 |
| 2.3 S2E2 System Test Environment (STE) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.000 | 1 | 8.000 |
| 2.4 S2E2 SMGT 1-3 DSP/GEO Stereo Capability Modification | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.6 S2E2 Integration | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13.200 |
| Subtotal: Hardware - SBIRS Survivable Endurable Evolution (S2E2) Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 122.583 |

Software - SBIRS Survivable Endurable Evolution (S2E2) Cost
Non Recurring Cost

| 2.1 S2E2 Software | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | 6.838 | 4 | 27.351 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 27.351 |
| Subtotal: Software - SBIRS Survivable Endurable volution (S2E2) Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 27.351 |


| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 836720 / Space Based Ir Sensor Pgm Space |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> - / SBIRS Survivable Endurable Evolution (S2E2) |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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 <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) |
| Gross/Weapon System Cost | . | . | . | . | . | . | . | . | . | . | . | . | - | . | . | 49.978 | 3 | 149.934 |

## Remarks:

Note: Starting in FY16 funding has been re-categorized from Other Procurement (3080) to Space Procurement Air Force (SPAF/3021).
2. SBIRS Survivable Endurable Evolution (S2E2): SBIRS capable MGS require the interim deliverables over this period as described below.

S2E2 Software Non-Recurring:
-FY11 - Provided non-recurring engineering for S2E2 System Test Environment (STE) design and integration.
-FY12 - Provided non-recurring engineering for S2E2 HEMP shelters and software integration.
-FY13 - Provided non-recurring engineering for track data relay processing, and S2E2 Maintenance Ops Support suite (MOSS).
-FY14 - Provided non-recurring engineering for GEO capable S2E2 upgrade.
-FY16- Provides training software for Standardized Space Trainer (SPAF funded)
S2E2 Hardware Non-Recurring:
-FY11 - Modernized the current Software Integration Facility (SIF) to include development functionality for S2E2.
-FY12 - Provided non-recurring engineering for S2E2 HEMP shelters and hardware integration.
-FY13 - Provided non-recurring engineering for S2E2 Maintenance Ops Support Suite (MOSS). Modernized the existing Integrated Maintenance Facility (IMF) with a sustainable MOSS for S2E2 System predeployment, maintainer training, and limited operator training.
FY14 - Provided non-recurring engineering for GEO-Capable Parabolic Dish Sub-System (PDSS) antennas
-FY16- Modifies SMGTs 1-3 to add PDSS antennas and other hardware for full Stereo DSP/GEO capability; completes UGNT integration (SPAF funded)
S2E2 Hardware Recurring:
-FY12 - Procured 1 fully tested and sustainable Mono-DSP SMGT
-FY13 - Procured 1 fully tested and sustainable Mono-DSP SMGT.
-FY14 - Procures 2 fully tested and sustainable PDSSs, and fully functional GEO-upgraded SMGTs 1\&2.
-FY15 - Procured 1 fully tested and sustainable GEO SMGT with two PDSSs. Procures the System Test Environment (STE) for high fidelity Development, Testing \& Evaluation (DT\&E) and future sustainment. -FY16 - Procures 2 fully capable Stereo DSP/GEO SMGTs with two PDSSs each, as well as 9 additional PDSSs needed to field full, simultaneous DSP and SBIRS downlink capability for FOC. (SPAF funded)

Total S2E2 Funding for FY11-16 $=\$ 232.5 \mathrm{M}$ (FY16 SPAF funding $=\$ 81.2 \mathrm{M}$ )
Quantity $=5$
Gross Unit Cost $=\$ 46.5 \mathrm{M}$
$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  | P-1 Line Item Number / Title: 836720 / Space Based Ir Sensor Pgm Space |  |  |  | Item Number / Title [DODIC]: <br> - / SBIRS Survivable Endurable Evolution (S2E2) |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 2.5 S2E2 SMGT ${ }^{(+)}$ |  | 2015 | Lockheed Martin Space Systems / Sunnyvale, CA | SS / CPIF | AFSPC | Nov 2014 | Jan 2018 | 1 | 26.100 | Y |  | Nov 2013 |

${ }^{(t)}$ indicates the presence of a P-21
Remarks:
Note: Starting in FY16 funding has been re-categorized from Other Procurement (3080) to Space Procurement Air Force (SPAF/3021).
SBIRS Survivable Endurable Evolution (S2E2)
-FY14 purchased GEO-capability upgrades to SMGTs $1 \& 2$ (delivery Dec 2017)
FY15 purchased GEO-capable SMGT 3 (delivery Jan 2018) and associated PDSS antennas
-FY16 purchases GEO-capable SMGTs 4\&5 (delivery Jul 2020 and Sep 2020) and modifies SMGTs 1-3 to full Stereo DSP/GEO capability and associated PDSS antennas (SPAF funded)
FY16 Unit Cost Calculations (SPAF funded):
\$20M - Single SMGT cost based on contract option
2.5M - Additional Parabolic Dish Sub-System (PDSS) Antenna
\$2.5M - Spares
Total Unit Cost $=\$ 25.0 \mathrm{M}$
Gross Unit Cost Calculation:
S2E2 unit costs above are not representative of overall S2E2 costs due to interim deliverables. S2E2 unit costs are calculated as follows:
Total S2E2 Funding for FY11-16 = \$232.5M (FY16 SPAF funding $=\$ 81.2 \mathrm{M}$ )
Quantity $=5$
Gross Unit Cost $=\$ 46.5 \mathrm{M}$

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| Exhibit P-21, Production Schedule: PB 2017 Air Force |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  | P-1 Line Item Number / Title: <br> 836720 / Space Based Ir Sensor Pgm Space |  |  |  |  | Item Number / Title [DODIC]: <br> - / SBIRS Survivable Endurable Evolution (S2E2) |  |  |
| $\begin{array}{\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | MSR For 2017 | 1-8-5 For 2017 | MAX For 2017 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total <br> 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 | Lockheed Martin Space Systems - Sunnyvale, CA | 1 | 1 | 1 | 1 | 2 | 38 | 40 | - | - | - | - |

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

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 6: Space Programs

## P-1 Line Item Number / Title: <br> 836730 / Navstar GPS Space

Equip / BSA 6: Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0305164F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 2.065 | - | - | - | - | - | - | - | - | - | 2.065 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 2.065 | - | - | - | - | - | - | - | - | - | 2.065 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 2.065 | - | - | - | - | - | - | - | - | - | 2.065 |
| (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 Navstar Global Positioning System (GPS) provides highly accurate time, three-dimensional position, and velocity information to an unlimited number of users anywhere on or above the surface of the earth, in any weather. GPS satisfies validated joint service requirements for worldwide, accurate, common grid navigation for military aircraft, ships, ground vehicles and personnel. The system is comprised of three segments: (1) satellites, (2) a ground control, and (3) user equipment. The satellites broadcast high-accuracy data using precisely synchronized signals that are received and processed by user equipment installed in military platforms. The ground control network updates the navigation messages broadcast from the satellites to provide system vectors to target location or navigational way points. Funds in this line support various GPS specific production efforts associated with the ground control and user equipment segments.

In the FY16 Consolidated Appropriations Act, selected space programs funded with Other Procurement, Air Force (OPAF) were transferred to Space Procurement, Air Force (SPAF) in FY16 and beyond. This exhibit will display values for FY 15 and prior.

PE 0305164F NAVSTAR GPS (USER EQUIPMENT) (SPACE)
KEY DATA LOADING INSTALLATION FACILITY (KLIF)/GPS SECURITY DEVICE: The KLIF facilitates the programming of black key (cryptographic) algorithms into the Selective Availability Anti-Spoofing Module (SAASM) to provide accurate positioning solutions for GPS users using secure equipment.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs |  |  |  |  |  | P-1 Line Item Number / Title: 836730 / Navstar GPS Space |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0305164F |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| $\begin{aligned} & \hline \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \hline \end{array}$ | 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 | Global Positioning (Space) |  |  |  | - 1- | - 12.065 | - 1- | - 1- | - 1- | - 1- |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1. | - 12.065 | - $1 \cdot$ | - 1. | - 1. | - 1. |
| *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 0305164F NAVSTAR GPS (USER EQUIPMENT) (SPACE) |  |  |  |  |  |  |  |  |  |  |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Global Positioning (Space) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 836730 / Navstar GPS Space |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Recurring Costs |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| KLIF/GPS Security Device | A |  | - | - | - | - | - | 2.065 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Costs |  |  | - | - | - | - | - | 2.065 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | - | 2.065 | - | . | . | - | . | - | . | . | - | - | . | - |

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 2017 Air Force
Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0305913F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 4.656 | - | - | - | - | - | - | - | - | - | 4.656 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 4.656 | - | - | - | - | - | - | - | - | - | 4.656 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 4.656 | - | - | - | - | - | - | - | - | - | 4.656 |
| (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:

 exhibit will display values for FY15 and prior.



 Monitoring (TM) and a classified mission.


 hosts, and their supporting ground control segments. The AF directly funds the procurement of the USNDS 6 ground segment (described below).
 GPS IIF SVs and GPS III Space Segment PE 0305265F for GPS III SVs. NDS payload integration onto Geosynchronous Earth Orbit (GEO) satellites is funded by NNSA/NA-22.







## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
836750 / Nudet Detection Sys Space

Other Related Program Elements: 0305913F

## Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A

 improved through an incremental evolution acquisition approach.





 Staff, and USSTRATCOM delivering long-term, cost effective, multi-role, multi-mission space effects to the war fighter across the range of military operations.

Funding for this effort is in PE 0305913F NUDET DETECTION SYS SPACE.



## Remarks:

(1) Quantity/unit cost data represents the average unit cost per system installation. Due to cost variances between local configurations, unit cost data will fluctuate between fiscal years.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs

## P-1 Line Item Number / Title:

836760 / Af Satellite Control Network Space

| ID Code (A=Service Ready, B=Not Service Ready): B |  |  | Program Elements for Code B Items: 0305110F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 117.684 | 54.436 | - | - | - | - | - | - | - | - | - | $172.120^{(\mathrm{a})}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 117.684 | 54.436 | - | - | - | - | - | - | - | - | - | 172.120 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 117.684 | 54.436 | - | - | - | - | - | - | - | - | - | 172.120 |
| (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 Air Force Satellite Control Network (AFSCN) is a satellite ground terminal network comprised of two communication nodes (Schriever AFB \& Vandenberg AFB) and 15 antenna systems. The antennas are distributed around the world at seven locations -- Vandenberg Tracking Station (VTS), Diego Garcia Station (DGS), Guam Tracking Station (GTS), Hawaii Tracking Station (HTS), New Hampshire Tracking Station (NHS), Thule Tracking Station (TTS), and Telemetry and Commanding Station (TCS) at RAF Oakhanger, England -- to ensure global coverage for 140 satellites in various orbits. The AFSCN conducts an average of 450 satellite contacts per day supporting Positioning, Navigation and Timing (PNT); Intelligence, Surveillance and Reconnaissance (ISR); Missile Warning; Communications; Weather; and Research and Development (R\&D) satellites for Department of Defense (DoD), Intelligence Community (IC), and National Aeronautics and Space Administration (NASA) operations. While most of the 450 satellite contacts/ day are routine command and control activities, the AFSCN is also used for satellite emergencies (e.g. tumbling satellite) because its high power antennas are often the only earthbound assets that can contact a non-responsive satellite to re-establish command \& control. During FY14 and FY15, the AFSCN supported 28 space vehicle emergencies resulting in the preservation of over $\$ 8.5$ B worth of satellites. In addition to routine and emergency satellite operations C2, the AFSCN provides support to launch vehicle and early orbit operations, ensuring worldwide antennas receive telemetry and transmit commands to newly orbiting satellites to initiate early orbit checkout. Finally, the AFSCN provides Factory Compatibility Testing (FCT) to ensure satellites and launch vehicles can communicate via the AFSCN before the satellite is launched. These efforts include systems engineering and integration (SE\&I) activities.

These funds are used to procure modernized equipment for the AFSCN to ensure the capability is available to support DoD, Intelligence community, and civil users.
Principal efforts include:

1) AFSCN Interim Supply Support: procures support services, peculiar and common support materials, and required re-procurement data for the Satellite Control Network Contract, and to transition to government supply support.
2) Remote Tracking Station (RTS) Block Change (RBC): The RBC Program was initiated in Dec 2001 to modernize the legacy system. The RBC program replaces legacy remote ground antenna systems that have reached end of life. To date, RBC systems have been installed at VTS, DGS, TCS, GTS, HTS, and NHS. TTS is projected to complete in 1Q FY16. In addition, the Air Force is upgrading the electronics in the remaining eight serviceable systems. This "hybrid" architecture couples the RBC electronics with existing antennas and normalizes electronics across the network. A prototype effort was implemented in FY12 to validate the approach and the first two hybrid articles were awarded in FY13 to upgrade legacy systems at GTS and HTS. A third article was awarded in FY14 to upgrade the legacy system at VTS. Funds in FY15 (DGS, TTS), FY16 (TCS, NHS) and FY17 (TCS, a station with three antenna systems) continue RBC Hybrid procurement for the remaining locations; completion is projected by FY20. Finally, the Enhanced

## Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force <br> Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0305110F
Other Related Program Elements: N/A

## Line Item MDAP/MAIS Code: N/A $\quad$ Item MDAP/MAIS Code(s): N/A

 EHPA will provide high-power anomaly resolution capability at four sites. The EHPA enables emergency satellite operations and is needed to replace obsolete parts.



 facility to a government facility, Range/Network/Communication obsolescence upgrades, and Multi-band \& Phased Array projects.

 exhibits. Total 3080/3021 procurement funding is $\$ 370.095 \mathrm{M}$.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): B |  | Program Elements for Code B Items: 0305110F |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | AIR FORCE SATELLITE CONTROL NETWORK SPACE |  | B | 1 - | - / 17.156 | 1 - | - 1 - | - 1 - | - 1 |
| P-40a | AIR FORCE SATELLITE CONTROL NETWORK SPACE MODS |  |  | - / 117.684 | - 137.280 | - 1 - | - 1 | - 1 - | - 1 |
| P-40 | Total Gross/Weapon System Cost |  |  | - / 117.684 | - 154.436 | - 1 - | - 1 - | - 1 - | 1 |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | AIR FORCE SATELLITE CONTROL NETWORK SPACE |  | B | - 1 | - 1 - | - 1 - | - 1 | - 1- | - 1 - |
| P-40a | AIR FORCE SATELLITE CONTROL NETWORK SPACE MODS |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - / 154.964 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1 | 1 | 1 - | - 1 - | - 1 - | - / 172.120 |

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

## Justification:

1) AFSCN Interim Supply Support (P-5): FY17 funding provides peculiar and common support material, required re-procurement data, and interim supply support management. In addition, funds procure the most urgently needed capital equipment replacements for items that exceed the O\&M dollar threshold. This equipment replaces items such as, but not limited to, high power amplifiers, processors, archival event recorders, and router switches, AFSCN Link Projection System (ALPS) equipment, legacy Electronic Scheduling Dissemination (ESD) 2.7 equipment and Diminishing Manufacturing Sources and Material Shortages (DMSMS) items which are at the top of the sustainers "worst actors" list and account for significant maintenance effort, down time, and lost or failed contacts.
2) RBC and AFSCN Recapitalization Projects (P-3As): These efforts are critical to ensuring telemetry, tracking, and commanding are provided for over 140 satellites and that satellite emergencies requiring highpower antennas can be supported.
FY17 funds continue Advisory \& Assistance Services (A\&AS) to procure other support for the system program office including, but not limited to cost estimating, contract reconciliation, and configuration management. These Advisory and Assistance Services and FFRDC efforts support the functions of government personnel in managing the production activities to upgrade the AFSCN system, and include FFRDC analyses to support installation, integration, and testing, as well as the installs and integration of equipment for the ongoing upgrades.

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 836760 / Af Satellite Control Network Space |  |  |  |  |  |  |  | Aggregated Modification Items Title: AIR FORCE SATELLITE CONTROL NETWORK SPACE MODS |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | 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) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 01-RBC / Remote Tracking Station Block Change (RBC) |  |  | - | - | 117.684 | - | - | 34.149 | - | - | - | - |  | - | - |  | - | - |  | - |
| 02-AFSCN / Air Force Satellite Control Network Recapitalization Projects |  |  | - | - | 0.000 | - | - | 3.131 | - | - | - | - |  | - | - | - | - | - | - | - |
| Total |  |  | $\cdot$ | - | 117.684 | - | - | 37.280 | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | 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 <br> (\$ M) | Unit Cost (\$ M) | $\underset{(E a c h)}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(E a c h)}{\text { Qty }}$ | 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 (\$ M) |
| 01-RBC / Remote <br> Tracking Station Block <br> Change (RBC) |  |  | - | - | - | - | - | - . | - | - | - | - | - | - | - | - | - | - | - | 151.833 |
| 02-AFSCN / Air Force Satellite Control Network Recapitalization Projects |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 3.131 |
| Total |  |  | - | - | - | - |  | - - | - | - | - | - | - | - | - | - | - | - | - | 154.964 |

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 |
| :--- | :--- | :--- |
| 01-RBC / Remote Tracking Station <br> Block Change (RBC) | Air Force Satellite Control Network | Capability Improvement |
| 02-AFSCN / Air Force Satellite Control <br> Network Recapitalization Projects | Air Force Satellite Control Network | Capability Improvement |

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## P-1 Line Item Number / Title:

 836770 / Spacelift Range System Space
## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: 0305182F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 236.504 | 62.525 | - | - | - | - | - | - | - | - | - | $299.029^{(a)}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 236.504 | 62.525 | - | - | - | - | - | - | - | - | - | 299.029 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 236.504 | 62.525 | - | - | - | - | - | - | - | - | - | 299.029 |
| (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 Spacelift Range System (SLRS), also known as the Launch and Test Range System (LTRS), provides public safety and assured access to space. SLRS operates at the Eastern Range (ER) at Patrick AFB/ Cape Canaveral AFS, FL and the Western Range (WR) at Vandenberg AFB, CA. SLRS provides tracking, telemetry, communications, flight safety, and other capabilities to support launch of national security space (NSS), civil and commercial space payloads, Intercontinental and Sea Launched ballistic missile and missile defense evaluations, and aeronautical and guided weapon tests. SLRS enables national security, civil, and commercial spacelift operations to be conducted safely; together with national security space launch capability, SLRS provides assured access to space for the nation. The ER and WR are part of the Department of Defense Major Range and Test Facility Base (MRTFB).

SLRS is comprised of twelve subsystems that together provide this capability to the ranges. The Range Safety and Command Destruct subsystems provide the capability to destroy an errant rocket, if necessary to protect public safety. These subsystems rely on the Telemetry, Radar, and Optics subsystems to provide tracking data. The Weather and Surveillance subsystems allow range operators and customers to determine if conditions are safe for launch. The Communications, Data Handling, and Timing \& Sequencing subsystems ensure critical data is expeditiously routed from remote sensors (e.g., radars, optics, etc.) to range operators and customers. Finally, the Planning and Scheduling subsystem ensures all assets are available when needed for a launch or test operation.

The Air Force prioritizes procurement funds to ensure aging range equipment is modernized to support mission requirements. Sustainment trends are continuously analyzed and assessed across all twelve subsystems and procurement funds are used to modernize the most critical mission equipment.

1) SLRS Interim Supply Support (P5): Provides peculiar and common support material, required re-procurement data, and interim supply support management.
2) SLRS Support Services (P5): FY17 funds pay for FFRDC mission assurance activities to ensure all twelve subsystems are compatible with mission rules and do not pose a risk to safe and cost-effective satellite launches. Funds are also used for Systems Engineering and Integration (SE\&I) to ensure baseline documentation and modernization activities remain synchronized with the sustainment baseline.
3) Range Command Destruct Modernization (RCDM) (P3a): Modernizes the Eastern and Western Range Command Destruct Systems. The Range Command Destruct modernization will provide the capability to use a new secure Command Destruct code, the Enhanced Flight Termination System (EFTS), mandated by the NSA for cyber security on both the Eastern and Western Ranges. The Eastern Range Command Destruct system will replace a sustainment "worst actor" that has been the cause of an expensive launch scrub as well as several near scrubs. The Western Range effort will replace the outdated command destruct codes with the new EFTS capability and meet the NSA mandate.

\section*{| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force | Date: February 2016 |
| :--- | :--- | :--- |}

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

## P-1 Line Item Number / Title:

836770 / Spacelift Range System Space Equip / BSA 6: Space Programs


## Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A


 contract was awarded as a small business set aside.

 aside.

 to the mission; priority is driven by likelihood of causing a launch delay/scrub.

 exhibits. Total 3080/3021 procurement funding is $\$ 779.550 \mathrm{M}$.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 6: Space Programs

## P-1 Line Item Number / Title:

836770 / Spacelift Range System Space Equip / BSA 6: Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: 0305182F |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \end{aligned}$ | 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 | Spacelift Range System Space |  |  | A | - 178.381 | - 141.887 | - 1 | - 1 | - 1 | 1 |
| P-40a | Spacelift Range System Space |  |  |  | - /158.123 | - 120.637 | 1 | - 1 - | 1 | 1 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1236.504 | - / 62.525 | - 1 - | - 1 - | - 1 - | 1 |
| Exhibits Schedule |  |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \\ & \hline \end{aligned}$ | 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 | Spacelift Range System Space |  |  | A | - 1 | 1 | - 1 | 1 | - 1 | - 1 - |
| P-40a | Spacelift Range System Space |  |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - / 178.760 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 | 1 | 1 | - 1 - | - 1 - | - 1299.029 |

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

## Justification:

Spacelift Range System Space (P-5): For SLRS Interim Supply Support, FY17 funds will pay for interim supply support, to include supplies and associated interim supply support management. In addition, funds procure the most urgently needed capital equipment replacements for items that exceed the O\&M dollar threshold. For SLRS SUPPORT SERVICES, FY17 funds pay for FFRDC mission assurance activities to ensure all twelve subsystems are compatible with mission rules and do not pose a risk to safe and cost-effective satellite launches. Funds are also used for SE\& to ensure baseline documentation and modernization activities remain synchronized with the sustainment baseline.

MEN, WMN, RCDM, and Recapitalization Projects (P-3As): These modifications are required to enable the safe conduct of national security, civil, and commercial launches at the Eastern and Western Ranges. Further, they ensure continued support to test range customers.

Exhibit P-5, Cost Analysis: PB 2017 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: February 2016

## Item Number / Title [DODIC]:

- / Spacelift Range System Space

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 78.381 | 41.887 | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 78.381 | 41.887 | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 78.381 | 41.887 | - | - | - | - |
| (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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { Each }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |

## Logistics - Logistics End Item Cost



| INTERIM SUPPLY SUPPORT MATERIAL (PARTS/SUPPLIES) | - | - | 4.652 | - | - | 2.618 | - | - | - | - | - | - | - | - | - | - | - |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| INTERIM SUPPLY SUPPORT SERVICES/LABOR | - | - | 2.489 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SLRS ENTERPRISE <br> SYSTEMS <br> ENGINEERING AND INTEGRATION | - | - | 35.646 | - | - | 21.967 | - | - | - | - | - | - | - | - | - | - | - | - |
| TECHNICAL MISSION ANALYSIS | - | - | 7.818 | - | - | 2.390 | - | - | - | - | - | - | - | - | - | - | - | - |
| TEST \& EVALUATION (WS) | - | - | 4.400 | - | - | 3.605 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 55.005 | - | - | 30.580 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Logistics - <br> Logistics End Item Cost | - | - | 55.005 | - | - | 30.580 | - | - | - | - | - | - | - | - | - | - | - | $\bullet$ |

Support - Support End Item Cost


UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  |  | P-1 Line Item Number / Title: 836770 / Spacelift Range System Space |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> - / Spacelift Range System Space |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ 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 Cost <br> (\$ M) |
| $\begin{aligned} & \hline \text { Subtotal: Support - Support } \\ & \text { End Item Cost } \\ & \hline \end{aligned}$ | - | - | 23.376 | - | - | 11.307 | - | - | . | - | - | - | - | . | - | - | - | - |
| Gross/Weapon System Cost | - | - | 78.381 | - | - | 41.887 | - | - | - | - | - | - | - | - | - | - | - | - |

## Remarks:

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

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 836770 / Spacelift Range System Space |  |  |  |  |  |  |  | Aggregated Modification Items Title: Spacelift Range System Space |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| 01-MEN / Modernization of Eastern Range Network (MEN) |  |  | - | - | 45.585 | - | - | 2.444 | - | - | - | - | - | - | - | - | - | - | - | - |
| 02-WMN / Western Range Modernization of Network (WMN) |  |  | - | - | 30.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| 03-RCDM / Range Command Destruct Modernization (RCDM) |  |  | - | - | 35.567 | - | - | 15.581 | - | - | - | - | - | - | - | - | - | - | - | - |
| 04-SLRS / Spacelift Range System Recapitalization Projects |  |  | - | - | 46.971 | - | - | 2.612 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 158.123 | - | - | 20.637 | - | - | - | - | - | - | - | - | - | - | - | - |
|  | ID MDAP/ <br> MAIS  <br> CD Code |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title |  |  | Unit Cost <br> $(\$ M)$ Qty <br> (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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| 01-MEN / Modernization of Eastern Range Network (MEN) |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 48.029 |
| 02-WMN / Western Range Modernization of Network (WMN) |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 30.000 |
| 03-RCDM / Range Command Destruct Modernization (RCDM) |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 51.148 |
| 04-SLRS / Spacelift Range System Recapitalization Projects |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 49.583 |
| Total |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 178.760 |

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

## Modification Information:

MOdification Information:

| Item Number / Title | Models of Systems Affected |  |
| :--- | :--- | :--- |
| 01-MEN / Modernization of Eastern <br> Range Network (MEN) | Spacelift Range System Space | Modification Type |
| 02-WMN / Western Range <br> Modernization of Network (WMN) | Spacelift Range System Space | Capability Improvement |
| 03-RCDM / Range Command Destruct <br> Modernization (RCDM) | Spacelift Range System Space | Reliability \& Maintainability |
| 04-SLRS / Spacelift Range System <br> Recapitalization Projects | Spacelift Range System Space | Reliability \& Maintainability |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force | Date: February 2016 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 03$ / 6 | P-1 Line Item Number / Title: <br> $836770 ~ / ~ S p a c e l i f t ~ R a n g e ~ S y s t e m ~ S p a c e ~$ | Aggregated Modification Items Title: <br> Spacelift Range System Space |

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| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs |  |  |  |  |  | P-1 Line Item Number / Title: 836780 / Milsatcom Space |  |  |  |  |  |  |
| 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: 199 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Milions) | 637.722 | 65.002 | - | - | - | - | - | - | - | - | - | 702.724 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 637.722 | 65.002 | - | - | - | - | - | - | - | - | - | 702.724 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 637.722 | 65.002 | - | - | - | - | - | - | - | - | - | 702.724 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

PE 0303601F MILSATCOM TERMINALS
MILITARY SATELLITE COMMUNICATIONS (MILSATCOM) joint-service systems collectively provide a broad range of satellite communication capabilities, including secure, jam-resistant, 24 -hour worldwide communications to meet essential strategic, tactical and general-purpose operational requirements. MILSATCOM terminals support communications requirements for the President and Secretary of Defense unified and specified combatant commanders, uniformed services and defense agencies. Procurement funding is in program element (PE) 0303601F, MILSATCOM Terminals, except where otherwise noted. There are also research and development efforts related to some of these efforts, and that RDT\&E AF funding is also in PE 0303601F.

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 6: Space Programs | Equip / BSA 6: Space Programs


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

## Justification:

PE 0303601F MILSATCOM TERMINALS













 cryptographic equipment, and more efficient and effective usage of satellite resources for jam-resistant and anti-scintillation wideband links.



 TRANSEC modem is available.

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
| :--- | :--- | :--- | :--- | :--- |
| Line Item MDAP/MAIS Code: 199 | Item MDAP/MAIS Code(s): N/A |  |

a. GBS RECEIVE SUITES: The receive suites link users to information sources via GBS, offering worldwide service.
b. JOINT INTERNET PROTOCOL MODEM (JIPM): On 13 Nov 14, DoD Chief Information Officer (CIO) re-directed the JIPM acquisition strategy to a commercial-off-the-shelf (COTS) solution.
c. TRANSEC MODEM: GBS working with DoD to identify TRANSEC Modem for GBS. Interim non-TRANSEC solution has been identified. Modification is being processed. Government testing will begin 4th Qtr 2015 and concludes 4th Qtr 2016. Following an operational trial period, operational acceptance will occur 1st Qtr 2017.
d. GBS PORTABLE RECEIVE SUITES: These are Rucksack and Suitcase variants of the GBS terminals required by Special Operations Forces in forward operating areas.
e. GBS BROADCAST MANAGER: The Satellite Broadcast Manager (SBM) systems at two of DISA's Defense Enterprise Computing Centers (DECC) that provide the GBS broadcast to the GBS Receive Suites worldwide.

GROUND MULTIBAND TERMINAL (GMT): GMT terminals support war-fighter tactical communications requirements utilizing WGS, DSCS and commercial satellite systems. GMT provides flexible, lightweight, modular, scalable, and integrated tactical quad-band SATCOM terminals which operate in $\mathrm{X}, \mathrm{C}, \mathrm{Ku}$ and military Ka frequency bands. The GMT replaces ground mobile force terminals that are reaching end of life. No FY17 funding requested.

MILSATCOM SUSTAINMENT MODIFICATIONS: Provides minor modifications for MILSATCOM systems currently in sustainment and those currently fielded. Funding FY17 continues sustainment for MPE 0303605F SATELLITE COMMUNICATIONS (SATCOMS).

FAMILY OF ADVANCED BEYOND LINE OF SIGHT TERMINALS (FAB-T): In FY16 FAB-T transferred to PE: 0303001F.
HIGH DATA RATE-RADIO FREQUENCY (HDR-RF): The ground terminal program will provide the high data rate SATCOM needed to support the Intelligence, Surveillance, and Reconnaissance (ISR) community with high bandwidth and high throughput capability. HDR-RF ground terminals will be used for command \& control ISR, and will support the full spectrum of operation from humanitarian support / disaster relief to a major theater war. HDR-RF terminals will be interoperable with WGS satellites to support air intelligence, surveillance, and reconnaissance data rates up to 274 Mbps. HDR-RF ground terminals will provide quad-band C-, X-, Ku-, and Ka Band SATCOM. HDR-RF ground terminals will be interoperable with legacy tactical terminals and operate worldwide with existing military and commercial spacecraft. The user of HDR-RF ground terminals is to support ISR missions. No FY17 funding requested.

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 6P-1 Line Item Number / Title: 836780 / Milsatcom Space

Date: February 2016
Item Number / Title [DODIC]:

- / MILSATCOM Terminals

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

| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 637.461 | 64.737 | - | - | - | - | - | - | - | - | - | 702.198 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 637.461 | 64.737 | - | - | - | - | - | - | - | - | - | 702.198 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 637.461 | 64.737 | - | - | - | - | - | - | - | - | - | 702.198 |

(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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 (\$ 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) |


| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AFWET MODERNIZATION OF ENTERPRISE TERMINALS | 6.651 | 15 | 99.759 | 7.972 | 4 | 31.888 | - | - | - | - | - | - | - | - | - | - |
| AFWET - UPGRADES | - | - | 87.198 | - | - | 2.163 | - | - | - | - | - | - | - | - | - | - |
| GBS - RECEIVE SUITES | 0.250 | 249 | 62.275 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GBS - Portable Receive Suites (OCO) ${ }^{(\dagger)}$ | 0.097 | 59 | 5.695 | 0.215 | 91 | 19.547 | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { GBS - Joint IP Modem } \\ & \text { (PB) } \\ & \hline \end{aligned}$ | 0.011 | 240 | 2.575 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GBS - Portable Receive Suites | 0.314 | 7 | 2.200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GMT - Quantity: Ground Multiband Terminals | 0.000 | 315 | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GMT - TERMINALS | 1.607 | 21 | 33.744 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GMT - ANTENNAS | 0.713 | 111 | 79.142 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GMT - JIPM Modems | 0.037 | 63 | 2.331 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GMT - JIPM Modules | 0.397 | 120 | 47.581 | - | - | - | - | - | - | - | - | - | - | - | - | - |

Exhibit P-5, Cost Analysis: PB 2017 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6

## P-1 Line Item Number / Title:

 836780 / Milsatcom SpaceDate: February 2016

## Item Number / Title [DODIC]:

- / MILSATCOM Terminals

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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| SMART-T - Secure Mobile Anti-jam Reliable Tactical Terminal | - | - | 32.902 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FAB-T TERMINALS ${ }^{(\dagger)}$ | 5.484 | 10 | 54.840 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HDR-RF - Quantity | 0.000 | 11 | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HDR-RF - GROUND TERMINALS | 2.449 | 3 | 7.347 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HDR-RF - Q-LAA ANTENNAS | 0.665 | 8 | 5.320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GBS - Enterprise Systems Engineering \& Integration | - | - | 20.454 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GBS - Technical Mission Analysis | - | - | 11.079 | - | - | 0.329 | - | - | - | - | - | - | - | - | - | - | - | - |
| GBS - Test Support | - | - | 1.087 | - | - | 4.100 | - | - | - | - | - | - | - | - | - | - | - | - |
| GBS - Receive Suites, Integration and Installation | - | - | 21.085 | - | - | 1.383 | - | - | - | - | - | - | - | - | - | - | - | - |
| AFWET - Product Services | - | - | 2.862 | - | - | 1.675 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 579.476 | - | - | 61.085 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware 0303601F Cost | - | - | 579.476 | - | - | 61.085 | - | - | - | - | - | - | - | - | - | - | - | . |

Software - 0303601F Cost
Recurring Cost

| GMT - Technical Data Package | - | - | 2.300 | - | - | - | - | - | - | - | - | - | - | - | - |  | - |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Recurring Cost | - | - | 2.300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Software 0303601F Cost | - | - | 2.300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |

Support - 0303601F Cos
AFWET - Advisory and
Assistance Services
(A\&AS)
GBS - Advisory and
A\&AS
A\&AS)
GBS - OTHER
SUPPORT

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 6
## P-1 Line Item Number / Title: 836780 / Milsatcom Space

Date: February 2016

## Item Number / Title [DODIC]

- / MILSATCOM Terminals

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

| Cost Elements | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & (\text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | 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 <br> (\$ M) |
| GBS - TRAINING - GBS Rucksacks | - | - | 0.275 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GMT - ENTERPRISE <br> SYSTEMS <br> ENGINEERING AND <br> INTEGRATION | - | - | 4.340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GMT - Advisory and Assistance Services (A\&AS) | - | - | 9.651 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GBS Transmit Strings ENTERPRISE SYSTEMS ENGINEERING AND INTEGRATION | - | - | 0.949 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GBS Transmit Strings - TELEPORT INTEGRATION | - | - | 2.375 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HDR-RF - ENTERPRISE SYSTEMS ENGINEERING AND INTEGRATION | - | - | 4.071 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HDR-RF - Advisory and Assistance Services (A\&AS) | - | - | 4.409 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FAB-T System Engineering | - | - | 3.043 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - |
| FAB-T Program Management Administration | - | - | 5.673 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FAB-T Production Planning | - | - | 4.730 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AFWET - OTHER SUPPORT | - | - | 2.407 | - | - | 1.488 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support 0303601F Cost | - | - | 55.685 | - | - | 3.652 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | - | - | 637.461 | - | - | 64.737 | - | - | - | - | - | - | - |  | - | - | - | - |
|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Cost Elements | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Hardware - 0303601F Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $3080 \mathrm{~F} / 03$ / 6 |
| :--- | :--- |
| 836780 / Milsatcom Space |  |

Date: February 2016
Item Number / Title [DODIC]:

- / MILSATCOM Terminals

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

|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 (\$ 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) |
| AFWET MODERNIZATION OF ENTERPRISE TERMINALS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.929 | 19 | 131.647 |
| AFWET - UPGRADES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 89.361 |
| GBS - RECEIVE SUITES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.250 | 249 | 62.275 |
| GBS - Portable Receive Suites $(\mathrm{OCO})^{(\dagger)}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.168 | 150 | 25.242 |
| GBS - Joint IP Modem (PB) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.011 | 240 | 2.575 |
| GBS - Portable Receive Suites | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.314 | 7 | 2.200 |
| GMT - Quantity: Ground Multiband Terminals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 315 | - |
| GMT - TERMINALS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.607 | 21 | 33.744 |
| GMT - ANTENNAS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.713 | 111 | 79.142 |
| GMT - JIPM Modems | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.037 | 63 | 2.331 |
| GMT - JIPM Modules | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.397 | 120 | 47.581 |
| SMART-T - Secure <br> Mobile Anti-jam <br> Reliable Tactical <br> Terminal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 32.902 |
| FAB-T TERMINALS ${ }^{(\dagger)}$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.484 | 10 | 54.840 |
| HDR-RF - Quantity | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - |
| HDR-RF - GROUND TERMINALS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.449 | 3 | 7.347 |
| HDR-RF - Q-LAA ANTENNAS | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.665 | 8 | 5.320 |
| GBS - Enterprise Systems Engineering \& Integration | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20.454 |
| GBS - Technical Mission Analysis | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 11.408 |
| GBS - Test Support | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.187 |
| GBS - Receive Suites, Integration and Installation | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 22.468 |

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $3080 \mathrm{~F} / 03$ / 6 |
| :--- | :--- |
| 836780 / Milsatcom Space |  |

836780 / Milsatcom Space

Date: February 2016

## Item Number / Title [DODIC]:

- / MILSATCOM Terminals

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

|  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 <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) |
| AFWET - Product Services | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.537 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 640.561 |
| Subtotal: Hardware 0303601F Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 640.561 |
| Software - 0303601F Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GMT - Technical Data Package | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.300 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.300 |
| Subtotal: Software 0303601F Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.300 |
| Support - 0303601F Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFWET - Advisory and Assistance Services (A\&AS) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.830 |
| GBS - Advisory and Assistance Services (A\&AS) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.738 |
| GBS - OTHER SUPPORT | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.358 |
| GBS - TRAINING - GBS Rucksacks | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.275 |
| GMT - ENTERPRISE SYSTEMS ENGINEERING AND INTEGRATION | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.340 |
| GMT - Advisory and Assistance Services (A\&AS) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.651 |
| GBS Transmit Strings ENTERPRISE SYSTEMS ENGINEERING AND INTEGRATION | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.949 |
| GBS Transmit <br> Strings - TELEPORT <br> INTEGRATION | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.375 |
| HDR-RF - ENTERPRISE SYSTEMS ENGINEERING AND INTEGRATION | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.071 |
| HDR-RF - Advisory and Assistance Services (A\&AS) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.409 |

UNCLASSIFIED

| Exhibit P-5, Cos | nalysi | PB 201 | Air F | ce |  |  |  |  |  |  |  |  |  | ate: | ruary | 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / 3080F / 03 / 6 | udget A | ivity | udget | ub Act |  | $\begin{array}{\|l\|} \hline \mathbf{P}-1 \\ 8367 \end{array}$ | ine Item <br> 80 / Mils | Numb com | / Titl ace |  |  |  |  |  | $\begin{aligned} & \text { nber / } \\ & \text { TCOM } \end{aligned}$ | itle [DOD Terminal |  |  |
| ID Code (A=Service Re | $\mathrm{B}=$ Not Serv | Ready) |  |  |  |  |  |  |  | AP/MAI | Code: |  |  |  |  |  |  |  |
|  |  | Y 2018 |  |  | Y 2019 |  |  | Y 2020 |  |  | FY 2021 |  |  | Comple |  |  | tal Cos |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ 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) |
| FAB-T System Engineering | - | . | - | - | . | . | - | - | . | - | - | . | - | - | . | - | . | 3.043 |
| FAB-T Program Management Administration | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.673 |
| FAB-T Production Planning | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.730 |
| AFWET - OTHER SUPPORT | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.895 |
| Subtotal: Support 0303601F Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 59.337 |
| Gross/Weapon System Cost | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 702.198 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 <br> Item Number / Title [DODIC]: <br> - / MILSATCOM Terminals |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget 3080F / 03 / 6 |  | / Bu | get Sub Activity: P-1 <br> 836 | P-1 Line Item Number / Title: 836780 / Milsatcom Space |  |  |  |  |  |  |  |  |
| 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 | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| GBS - Portable Receive Suites $(\mathrm{OCO})^{(\dagger)}$ |  | 2014 | AQYR Technologies, Inc / Nashua, NH | C/IDIQ | AFLCMC Hanscom AFB | Sep 2015 | Mar 2016 | 59 | 0.097 | Y |  | Mar 2015 |
| GBS - Portable Receive Suites $(\mathrm{OCO})^{(\dagger)}$ |  | 2015 | AQYR Technologies, Inc / Nashua, NH | C/IDIQ | AFLCMC Hanscom AFB | Sep 2015 | Aug 2016 | 91 | 0.215 | Y |  |  |
| FAB-T - TERMINALS ${ }^{(+)}$ |  | 2014 | Raytheon Corporation / Marlborough, MA | C/FFP | AFLCMC Hanscom AFB | Sep 2015 | Aug 2016 | 10 | 5.484 | Y |  | Mar 2013 |

${ }^{(t)}$ indicates the presence of a P-21

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| Exhibit P-21, Production Schedule: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 Item Number / Title [DODIC]: - / MILSATCOM Terminals |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 836780 / Milsatcom Space |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2015 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2016 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2015 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2016 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | PRIOR <br> TO 1 <br> OCT <br> OT14 | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ \text { 1 OCT } \end{gathered}$ | O c T | N | D E C | J A N | F | M A R | A P R | M A Y | J | J u L | A U G | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | N | D E C | J A N | F E B | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J | J u L | A | S E P |  |
| GBS - Portable Receive Suites (OCO) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2014 | AF | 59 | - | 59 |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - |  | 10 | 10 | 10 | 10 | 10 | 9 |  | - |
| 1 | 2015 | AF | 91 | - | 91 |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - |  | - | - | - | - | - | 1 | 10 | 80 |
| FAB-T - TERMINALS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2014 | AF | 10 | - | 10 |  |  |  |  |  |  |  |  |  |  |  | A - | - | - |  | - |  | - | - | - | - | - | 1 | 1 | 8 |
|  |  |  |  |  |  | O c c | N | D | J | ${ }_{\text {F }}$ | M | A | M | J | J | A | $\stackrel{\text { S }}{\text { E }}$ | O c c | N O | D | J | $\underset{\mathrm{E}}{\mathrm{F}}$ | M | A <br>  <br> $\mathbf{P}$ | M A | J | J | A | $\stackrel{\text { S }}{\text { E }}$ |  |
|  |  |  |  |  |  |  | v | c | N |  | R | R |  | N | L | G | P | t | v | c | N | в | R | R | Y | N | , | G | ${ }^{\text {P }}$ |  |

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| Exhibit P-21, Production Schedule: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Item Number / Title [DODIC]: <br> - / MILSATCOM Terminals |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 \mathrm{~F} / 03 \text { / } 6$ |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 836780 / Milsatcom Space |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2017 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2018 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ${ }^{\text {ACCEPT }}$ |  |  |  |  | Calendar Year 2017 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2018 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | ${ }^{\text {PROC }}$ QTY | $\begin{aligned} & \text { TO } 1 \\ & \text { OCT } \\ & 2016 \end{aligned}$ | $\begin{gathered} \mathrm{BAL} \\ \mathrm{DUE} \\ \mathrm{ASOF} \\ 1 \mathrm{OCT} \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N O v | D E C | J A N | F E B | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A P R | M A Y | J U N | J u L | A | S E P | o c T | N | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br>  <br> $\mathbf{P}$ <br> $\mathbf{R}$ | M | J U N | J | A | S E P |  |
| GBS - Portable Receive Suites (OCO) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2014 | AF | 59 | 59 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| 1 | 2015 | AF | 91 | 11 | 80 | 10 | 10 | 10 | 10 |  | 10 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
| FAB-T - TERMINALS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2014 | AF | 10 | 2 | 8 | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M <br>  <br> R | A | M | U | ${ }_{\text {u }}^{\text {J }}$ | A | $\stackrel{\text { S }}{\text { E }}$ | - | N | D E c | A | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M <br>  <br> R | A <br>  <br> P <br> R | M | U | J | A | $\stackrel{\text { S }}{\text { E }}$ |  |

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| Exhibit P-21, Production Schedule: PB 2017 Air Force |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  | P-1 Line Item Number / Title: <br> 836780 / Milsatcom Space |  |  |  |  | Item Number / Title [DODIC]: <br> - / MILSATCOM Terminals |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  | 1-8-5 For 2017 | MAX For 2017 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2017 |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 |
| 1 | AQYR Technologies, Inc Nashua, NH | 1 | 10 | 10 | 11 | 12 | 11 | 23 | - |  | - | - |
| 2 | Raytheon Corporation Marlborough, MA | - | - | - | - | - | - | - | - | - | - | - |

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

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 836780 / Milsatcom Space |  |  |  |  |  |  |  | Aggregated Items Title: Satellite Communications (SATCOM) O\&M |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total $(\$ M)$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ccs-c | A |  | - | - | 0.261 | - |  | 0.265 | - | - | - | - | - | - | - | - |  | - |  | - |
| Subtotal: Uncategorized |  |  | - |  | 0.261 | - |  | 0.265 | - | - | - | - |  |  | - |  |  | - |  | - |
| Total |  |  | - | - | 0.261 | - |  | 0.265 | - | - | - | - | - | - | - | - |  | - |  | - |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \end{array}$ Code | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | 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 (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ccs-c | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.526 |
| Subtotal: Uncategorized |  |  | - | - | - | $\cdot$ | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.526 |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.526 |

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 6: Space Programs

P-1 Line Item Number / Title:
836790 / Space Mods Space

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: 0305165F, 0305940F |  |  |  |  | Other Related Program Elements: 0305614F, 0305940F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 166 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 14.677 | 31.706 | - | - | - | - | - | - | - | - | - | 46.383 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 14.677 | 31.706 | - | - | - | - | - | - | - | - | - | 46.383 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 14.677 | 31.706 | - | - | - | - | - | - | - | - | - | 46.383 |
| (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 0305160F DEF METEOROLOGICAL SAT PROG (SPACE)


 same local sun time on each of their 14 orbits/day).



 viable through the planned DMSP mission fly-out no later than 2027.

PE 0305165F NAVSTAR GPS (SPACE AND CONTROL SEGMENTS)





| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | 836790 / Space Mods Space |
| Equip / BSA 6: Space Programs |  |


| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: 0305165F, 0305940F | Other Related Program Elements: 0305614F, 0305940F |
| :---: | :---: | :---: |

## Line Item MDAP/MAIS Code: 166 Item MDAP/MAIS Code(s): N/A

or even partial system failure will cause a loss of operational availability and the transmission of inaccurate navigation data to worldwide users, resulting in potential loss of life and/or operational equipment, including multi-million dollar satellites. OCS is required to operate until the Next Generation Operational Control System (OCX) transitions to operations.

## PE 0305614F JSPOC MISSION SYSTEM

JOINT SPACE OPERATIONS CENTER (JSpOC) Mission System (JMS) provides integrated space situational awareness information and C2 of space forces for the Joint Functional Component Commander for Space (JFCC-SPACE). It will allow JFCC-SPACE to plan, direct, coordinate, and control operations of assigned forces. The JMS provides a net-centric, Services Oriented Architecture (SOA) along with space mission applications to meet the needs above. It implements a Space User Defined Operational Picture (UDOP) to provide the capability to create, visualize, and share decision-relevant views of space operational environment at all echelons.

PE 0305912F SLBM RADAR WARNING SYSTEM
SEA-LAUNCHED BALLISTIC MISSILE (SLBM) DETECTION AND WARNING SYSTEM: The primary mission of the 474N SLBM Detection and Warning System is to provide United States Strategic Command (USSTRATCOM) with credible Integrated Tactical Warning/Attack Assessment (ITW/AA) data on all SLBMs penetrating the coverage area. This data includes an estimation of launch and predicted impact (L\&PI) locations and times. The secondary mission is to provide the Cheyenne Mountain Air Force Station, CO (CMAFS) and other users with ITW/AA data on Intercontinental Ballistic Missiles (ICBMs) penetrating the coverage area. Additionally, Perimeter Acquisition Radar Attack Characterization System (PARCS) and PAVE Phased Array Warning Systems (PAVE PAWS) support the Space Situational Awareness (SSA) mission by providing near earth satellite surveillance, tracking and identification as required by the Space Control Center, Alternate Space Control Center, and the Joint Intelligence Center. The sensors have an operational availability requirement of 98 percent. The 474 N SLBM Detection and Warning System currently consists of: a) the AN/FPQ-16 PARCS and b) the AN/FPS-123 PAVE PAWS System (Phased Array Radars for SLBM Detection and Warning System).

## PE 0305940F SPACE SITUATION AWARENESS OPERATIONS

GROUND-BASED ELECTRO OPTICAL DEEP SPACE SURVEILLANCE (GEODSS) SERVICE LIFE EXTENSION PROGRAM (SLEP) Phase II: The GEODSS SLEP Phase II will replace aging unsupportable mission critical sub-systems with modern sustainable components, allowing continued mission operations through 2025. GEODSS is a three-site optical telescope system dedicated to the Space Surveillance Network (SSN). The GEODSS sites, located in Socorro, New Mexico; Maui, Hawaii; and Diego Garcia (British Indian Ocean Territories), provide time critical deep-space tracking information for the Joint Space Operations Center (JSpOC). The GEODSS SLEP Phase II will modernize the Sensor Controller, Data Processing, and other unsustainable subsystems as required for all sites. The program will replace the obsolete, diminishing supportable components of the GEODSS Sensor Controller Group (SCG) with sustainable hardware/software technology.

NET-CENTRIC SENSORS AND DATA SOURCES (N-CSDS): The N-CSDS program, through net-centric exposure, provides data from traditional Space Surveillance Network (SSN) sensors and non-traditional space situational awareness sensors, and data sources. It enables legacy sensors and data sources to distribute information net-centrically while also providing additional data. RDT\&E funding for this effort is in PE 0604425F.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 6: Space Programs |

## P-1 Line Item Number / Title:

 836790 / Space Mods Space| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: 0305165F, 0305940F | Other Related Program Elements: 0305614F, 0305940F |
| :---: | :---: | :---: |


| Line Item MDAP/MAIS Code: 166 | Item MDAP/MAIS Code(s): N/A |
| :--- | :--- |


| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \end{aligned}$ | 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 | Defense Meteorological Satellite Program (SPACE) |  |  | - 10.000 | - 12.165 | 1 | - 1 - | 1 | - 1 - |
| P-40a | NAVSTAR Global Positioning System (Space and Control Segments) |  |  | - 19.774 | - / 12.656 | - 1 - | - 1 - | 1 | 1 |
| P-40a | JSPOC Mission System |  |  | - 10.867 | - 1 | - 1 - | - 1 - | 1 | - 1 - |
| P-40a | Submarine-Launched Ballistic Missile (SLBM) Radar Warning System |  |  | - 10.000 | - 19.184 | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a | Space Situation Awareness Operations |  |  | - 14.036 | - 14.577 | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a | Space Situation Awareness Operations |  |  | - 10.000 | - 13.124 | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  | 114.677 | - 131.706 | - 1 - | - 1 - | - 1 - | - 1 - |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \end{aligned}$ | 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 | Defense Meteorological Satellite Program (SPACE) |  |  | - 1 | 1 | 1 | - 1 - | 1 | - 12.165 |
| P-40a | NAVSTAR Global Positioning System (Space and Control Segments) |  |  | 1 | - 1 - | - 1 - | - 1 - | - 1 - | - 122.430 |
| P-40a | JSPOC Mission System |  |  | 1 | 1 | - 1 - | - 1 - | 1 | - 10.867 |
| P-40a | Submarine-Launched Ballistic Missile (SLBM) Radar Warning System |  |  | 1 | 1 | - 1 - | - 1 - | 1 | - 19.184 |
| P-40a | Space Situation Awareness Operations |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 18.613 |
| P-40a | Space Situation Awareness Operations |  |  | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 13.124 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1 - | - 1 - | - 1 - | 1 | - 1 - | - /46.383 |

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

## Justification

PE 0305160F DEF METEOROLOGICAL SAT PROG (SPACE)
 to improve supportability.

PE 0305165F NAVSTAR GPS (SPACE AND CONTROL SEGMENTS)


 testing, configuration management, security, quality assurance and technical documentation. Funding sustains OCS until OCX transitions to operations.

PE 0305614F JSPOC MISSION SYSTEM
Where applicable, justification for individual modifications is provided in the $\mathrm{P}-3 \mathrm{~A}$ exhibits.

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  | Date: February 2016 |
| :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / 3080F: Other Procurement, Air For Equip / BSA 6: Space Programs | udget Sub Activity: <br> / BA 03: Electronics and Telecommunications | P-1 Line Item Number / Title: 836790 / Space Mods Space |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: 0305165F, 0305940F |  |  | rogram Elements: 0305614F, 0305940F |
| Line Item MDAP/MAIS Code: 166 | Item MDAP/MAIS Code(s): N/A |  |  |  |
| PE 0305912F SLBM RADAR WARNING SYSTEM |  |  |  |  |
| Where applicable, justification for individual modifications is provided in the P-3A exhibits. |  |  |  |  |
| PE 0305940F SPACE SITUATIONAL AWARENESS OPERATIONS |  |  |  |  |
| Where applicable, justification for individual modifications is provided in the P-3A exhibits. |  |  |  |  |

## UNCLASSIFIED

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| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 836790 / Space Mods Space |  |  |  |  |  |  |  | Aggregated Items Title: <br> Defense Meteorological Satellite Program <br> (SPACE) |  |  |  |  |
| 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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
|  |  |  | 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 (\$ 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Telemetry and Commanding System | A |  | - | - | - | - | - | 2.165 | - | - | - | - | - | - | - | - | - | - |  |  |
| Mission Plan/ Schedule | A |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - |  | - |
| Communications | A |  | - |  | 0.000 | - |  | - | - | - | - | - |  | - | - |  | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | 0.000 | - |  | 2.165 | - | - | - | - | - | - | - |  | - | - |  | - |
| Total |  |  | - |  | 0.000 | - |  | 2.165 | - |  | - | - |  | - | $\cdot$ |  | - | $\cdot$ |  |  |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Telemetry and Commanding System | A |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 2.165 |
| Mission Plan/ Schedule | A |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Communications | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | - . | - | - | - | - | - | - | - | - | - | - | - | 2.165 |
| Total |  |  | - | - | - | - | $\cdot$ | - - | - | - | - | - | $\cdot$ | $\cdot$ | - | - | - | $\cdot$ | - | 2.165 |

[^6]UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 03 / 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 836790 / Space Mods Space |  |  |  |  |  |  |  | Aggregated Modification Items Title: NAVSTAR Global Positioning System (Space and Control Segments) |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | 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) | $\underset{\text { (Each) }}{\text { Qty }}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| NAVSTAR GPS-OCS COTS UPGRADE NAVSTAR GPS-OCS COTS UPGRADE |  |  | - | - | 9.774 | - | - | 12.656 | - | - | - | - | . | . | - |  |  | - |  | . |
| Total |  |  | . | - | 9.774 | - |  | 12.656 | - | - | - | - | - | - | - |  |  | - | - | - |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{array}$ | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ M) | Unit Cost <br> (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | 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) | $\begin{array}{\|c\|} \hline \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| NAVSTAR GPS-OCS COTS UPGRADE I NAVSTAR GPS-OCS COTS UPGRADE |  |  | - | - | - | - | - | - | - | - | - | - | . | - | - | - |  | - |  | 22.430 |
| Total |  |  |  | - | $\cdot$ | - |  | - | - | - | - | - | - | - | - | - |  | - | - | 22.430 |

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 |  |
| :--- | :--- | :--- |
| NAVSTAR GPS-OCS COTS <br> UPGRADE / NAVSTAR GPS-OCS <br> COTS UPGRADE | GPS-OCS |  |

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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 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 836790 / Space Mods Space |  |  |  |  |  |  |  | Aggregated Modification Items Title: Submarine-Launched Ballistic Missile (SLBM) Radar Warning System |  |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  |  | FY 2017 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) | $\underset{\text { (Each) }}{\text { Qty }}$ | 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) |
| P-3A PAVE PAWS <br> Modifications / P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End) |  |  | - | - | - | - | - | 9.184 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 0.000 | - | - | 9.184 | - | - | - | - | - | - | - |  | - | - | - | - | - |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \end{gathered}$ | $\underset{\text { (Each) }}{\text { Qty }}$ | 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) |
| P-3A PAVE PAWS Modifications / P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End) |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.184 |
| Total |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - | 9.184 |

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 |
| :--- | :--- | :--- |
| P-3A PAVE PAWS Modifications / P-3A <br> PAVE PAWS Modification (formerly <br> PAVE PAWS Front End) | NA | Reliability \& Maintainability |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 836790 / Space Mods Space |  |  |  |  |  |  |  | Aggregated Items Title: <br> Space Situation Awareness Operations |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  | MDAP/ <br> 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 <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Item | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Net-Centric Sensors and Data Sources (N-CSDS) \{PE 0305940F\} | A |  | - | - | 4.036 | - | - | 4.577 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | 4.036 | - | - | 4.577 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | $\cdot$ | - | 4.036 | - | - | 4.577 | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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 <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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Item | A |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Net-Centric Sensors and Data Sources (N-CSDS) \{PE 0305940F\} | A |  | - | - | - | - | - | - | - | - | - | . | - | - | - | - | - | - | . | 8.613 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 8.613 |
| Total |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 8.613 |

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

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 03 / 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 836790 / Space Mods Space |  |  |  |  |  |  |  | Aggregated Modification Items Title: Space Situation Awareness Operations |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| P-3A GEODSS / P-3A GEODSS |  |  | - | - | - | - | . | 3.124 | - | - | - | - | . | - | - | - | - | - |  | - |
| Total |  |  | - |  | 0.000 | - | - | 3.124 | - | - | - | - | - | - | - |  |  | - |  | - |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| P-3A GEODSS / P-3A GEODSS |  |  | - | . | - | - | - | - | - | - | - | - | - | . | - | - | - | . | . | 3.124 |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | . | - |  | 3.124 |

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 |
| :--- | :--- | :--- |
| P-3A GEODSS / P-3A GEODSS | GEODSS | Service Life Extension |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs |  |  |  |  |  | P-1 Line Item Number / Title: 836810 / Counterspace System |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): B |  |  | Program Elements for Code B Items: 0604421F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | FY 2017 <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 8.041 | 59.439 | - | - | - | - | - | - | - | - | - | 67.480 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 8.041 | 59.439 | - | - | - | - | - | - | - | - | - | 67.480 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 8.041 | 59.439 | - | - | - | - | - | - | - | - | - | 67.480 |
| (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 Counter Communications System (CCS) Pre-planned Product Improvement (P3I) program provides expeditionary, deployable, reversible offensive Counterspace effects applicable across the full spectrum of conflict. It prevents adversary satellite communications (SATCOM) in the Area of Responsibility (AOR) including Command and Control (C2), Early Warning, and Propaganda; and hosts Rapid Reaction Capabilities in response to Urgent Needs. Acquisition Decision Memorandum ( 24 April 2009) directed all capabilities identified in the October 2006 CCS Block 20, JROC-approved Capability Development Document (CDD) shall be accomplished as P3I upgrades to the CCS Block 10.

Funding for this exhibit and developmental funding for CCS is in Program Element 0604421F, Counterspace Systems.
In the FY16 Consolidated Appropriations Act, selected space programs funded with Other Procurement, Air Force (OPAF) were transferred to Space Procurement, Air Force (SPAF) in FY16 and beyond. This exhibit will display values of funding prior to FY16.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 6: Space Programs |  |  |  |  |  | P-1 Line Item Number / Title: <br> 836810 / Counterspace System |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): B |  |  | Program Elements for Code B Items: 0604421F |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A $\quad$ Item MDAP/MAIS Code(s): N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | Counterspace System |  | P-5a | B | - 18.041 | - / 59.439 | - 1 - | - 1 | - 1 | 1 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 18.041 | - 159.439 | - 1 - | - 1 | - 1 | - |
| *Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. |  |  |  |  |  |  |  |  |  |  |
| Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |
| Justification: <br> In the FY16 Consolidated Appropriations Act, selected space programs funded with Other Procurement, Air Force (OPAF) were transferred to Space Procurement, Air Force (SPAF) in FY16 and beyond. This exhibit will display values of funding prior to FY16. |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Air Force
 3080F / 03 / 6
ID Code (A=Service Ready, B=Not Service Ready) : B


[^7]UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 6 |  |  |  | P-1 Line Item Number / Title: 836810 / Counterspace System |  |  |  | Item Number / Title [DODIC]: <br> - / Counterspace System |  |  |  |  |
| 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 |
| a. CCS PRE-PLANNED PRODUCT IMPROVEMENT (P3I) |  | 2014 | Harris / Melbourne, FL | Various | LAAFB, CA | Nov 2012 | Apr 2014 | 1 | 7.877 | N | Dec 2013 |  |
| a. CCS PRE-PLANNED PRODUCT IMPROVEMENT (P3I) |  | 2015 | Harris / Melbourne, FL | Various | LAAFB, CA | Jun 2015 | Jun 2017 | 2 | 6.250 | N | Jan 2015 |  |
| b. Air National Guard CCS |  | 2015 | Harris / Melbourne, FL | Various | LAAFB, CA | Jun 2015 | Dec 2016 | 2 | 22.964 | N | Jan 2015 |  |

## 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: 0207422F, 0207444F, 0503133F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 50.487 | 137.205 | 109.836 | 8.100 | 117.936 | 95.154 | 115.275 | 81.875 | 83.347 | - | 681.279 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 50.487 | 137.205 | 109.836 | 8.100 | 117.936 | 95.154 | 115.275 | 81.875 | 83.347 | - | 681.279 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 50.487 | 137.205 | 109.836 | 8.100 | 117.936 | 95.154 | 115.275 | 81.875 | 83.347 | - | 681.279 |
| (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:

Tactical Airborne Control Systems PE 0207418F - 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 CAS Platforms.

Joint Terminal Control Training and Rehearsal System (JTC TRS): TACP Fixed and Portable Simulators comprise JTC TRS. This simulator project trains personnel controlling air support for combat operations by providing both a stand-alone and Distributed Mission Operations (DMO)-capable high-fidelity JTAC, and Combat Control Team (CCT) simulation system. The JTC TRS will be able to connect to DMO networks to allow geographically separated high-fidelity close air support platforms, JTACs and CCTs to train together in a risk-free environment. The Fixed simulator enables operators to conduct Joint Close Air Support (JCAS) training/mission rehearsal using tailored, dynamic scenarios that are relevant to mission tasking. Furthermore, the simulator will be capable of providing tactical air traffic control training for CCT using tactical application of austere airbase operations. The JTAC simulators provide DMO capability to network with aircrew full mission trainers, mission training centers, and Air Support Operations Centers (ASOC). Its primary focus is to provide an air-ground 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 will be fully interoperable with joint/sister Service air ground simulation using 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 and aircrew proficiency. The acquisition strategy for production of the fixed configuration of the JTC TRS will be executed as an evolutionary acquisition approach using incremental development. Until the production system is ready for fielding, interim simulators will be fielded to support JTAC qualification training and readiness for deployable JTACs.

TACP C2 Simulator: The Joint Theater Air-Ground Simulation System (JTAGSS) is the TACP C2 Simulator. The simulator is for training ASOC and Special Operations Forces (SOF) personnel to perform command and control (C2) battlestaff operations. The C2 simulator will operate in either a stand-alone mode, or connected to other DMO-capable high-fidelity simulation facilities to allow geographicallyseparated Theater Air Control System C2 elements, CAS platforms, and JTAC and CCT personnel to train in an integrated virtual environment. The simulator will enable operators to conduct C2 training and mission rehearsal of JCAS assets using tailored, dynamic scenarios that are relevant to current real-world mission taskings. Scenarios will cover the full range of military operations. Training with the simulator will improve mission effectiveness by reducing the risk of civilian casualties, collateral damage, and fratricide by improving C2 skills in rapidly changing and uncertain combat environments. The JTAGSS program will enable procurement of an estimated three JTAGSS for air support operations training. The acquisition strategy for the TACP C2 simulator will be to field advance technology demonstration units in two increments. Increment 1 will field initial capability to perform proof of concept and technology validation of mission simulations for all ASOC crew positions including detailed communications planning, asset

## UNCLASSIFIED

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P-1 Line \#52
Volume 1-427

| 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

|  |  | Program Elements for Code B Items: N/A | Other Related Program Elements: 0207422F, 0207444F, 0503133F |
| :--- | :--- | :--- | :--- |

## Line Item MDAP/MAIS Code: N/A $\quad$ Item MDAP/MAIS Code(s): N/A

 awarded to complete simulator development, deployment and integration.

Security Forces (SF)Tactical Communication Radios - 0207588F - P40A


 or MUOS.

Deployable C3 Systems PE 0207422F - P-40A
PE 0207422F DEPLOYABLE COMMAND, CONTROL, and COMMUNICATIONS (C3) SYSTEMS







 squadrons.


 equipment maintains compliance with DOD security mandates/directives and cryptographic modernization standards. The program has three components:



 operations.


 network as the base population increases.
 functions include data management, intrusion detection, and firewall capabilities for both the classified and unclassified networks.

FY17 Funding includes $\$ 3.6 \mathrm{M}$ 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 | Item MDAP/MAIS Code(s): N/A |
| :--- | :--- |

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

Advanced Communications Systems PE 0207423F - P-5
PE 0207423F JOINT TACTICAL RADIO SYSTEMS/JTRS

 a critical set of rules that make software programmable radios function properly and ensure interoperability. Funding for this exhibit is contained in PE 0207423F.

Tactical Air Control Party-Mod PE 0207444F - P-5
 army ground maneuver operations.


 response times, and reduce the probability of fratricide or collateral damage through the use of networked data communications.

 (TOCs), mobile operations in tactical vehicles, and dismounted (on foot) operations with Army infantry patrols.



 respond to evolving threat environments.

The FY 2017 funding request was reduced by $\$ 19.4 \mathrm{M}$ to account for the availability of prior year execution balances.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PE 0207444F.
Special Tactics / Combat Control PE 0408011F - P-5
PE 0408011F SPECIAL TACTICS / COMBAT CONTROL



## 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

 Item MDAP/MAIS Code(s): N/A





 Moreover, items include but not limited to training, initial spares, repairs and returns, and other equipment.

Combat Rescue - Pararescue (AFR) PE 0503133F - P-40A
PE 0503133F: COMBAT RESCUE - PARARESCUE (AFR)
Tactical communications and electrical equipment in support of special operations forces. FY16 funding includes $\$ 4.065 \mathrm{M}$ for Overseas Contingency Operations.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 2,465 | 3,741 | 3,292 | 4 | 3,296 | 92 | 92 | 92 | 92 |
|  | Total Obligation Authority | 47.748 | 129.626 | 97.329 | 6.900 | 104.229 | 14.284 | 13.795 | 13.952 | 14.234 |
| AFNG | Quantity | 169 | 91 | 91 | 2 | 93 | 91 | 91 | 91 | 91 |
|  | Total Obligation Authority | 2.120 | 6.435 | 10.813 | 1.200 | 12.013 | 10.704 | 10.272 | 10.122 | 10.278 |
| AFR | Quantity | 17 | 17 | 17 | - | 17 | 17 | 17 | 17 | 17 |
|  | Total Obligation Authority | 0.209 | 1.144 | 1.694 | - | 1.694 | 1.606 | 1.409 | 1.883 | 1.911 |
| Total: <br> Secondary Distribution | Quantity | 2,651 | 3,849 | 3,400 | 6 | 3,406 | 200 | 200 | 200 | 200 |
|  | Total Obligation Authority | 50.077 | 137.205 | 109.836 | 8.100 | 117.936 | 26.594 | 25.476 | 25.957 | 26.423 |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

## 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: 0207422F, 0207444F, 0503133F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | Tactical Airborne Control Systems |  | A | $3 /$ - | 4/9.063 | 21/43.187 | $7 / 15.599$ | - 1 | $7 / 15.599$ |
| P-40a | Deployable C3 Systems |  |  | - 10.000 | - 13.990 | - /16.762 | - /26.884 | - 13.600 | - / 30.484 |
| P-5 | Advanced Communications Systems |  | A | 1 | - 1 - | 1,220/9.933 | 1 / 10.397 | - 1 - | 1 / 10.397 |
| P-5 | Tactical Air Control Party-Mod |  | A | - 10.000 | $283 / 20.504$ | 1,030 / 32.151 | 1,034/41.823 | - 1 - | 1,034/41.823 |
| P-40a | Air Base Ground Defense |  |  | - 1 - | 1 | - 1 | - 1 | - 14.500 | - 14.500 |
| P-5 | Special Tactics / Combat Control |  | A | - 1 - | 2,164 / 16.520 | 1,377 / 31.107 | 2,158/15.133 | - 1 - | 2,158/15.133 |
| P-40a | Combat Rescue - Pararescue (AFR) |  |  | - 1 - | 1 | - 14.065 | - 1 | - 1 - | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  | 10.000 | - 150.487 | - /137.205 | - / 109.836 | - 18.100 | - / 117.936 |

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

## Justification:

This program, PE 0207588F P-40A Item Tactical Communications Radios, is a new start.
Tactical Airborne Control Systems PE 0207418F - P-5
 conventional Joint Terminal Attack Controllers (JTAC).

Deployable C3 Systems PE 0207422F - P-40A
PE 0207422F DEPLOYABLE COMMAND, CONTROL, and COMMUNICATIONS (C3) SYSTEMS
SPOKE SATELLITE TERMINALS: FY17 funding will procure information assurance driven mandated upgrades as required

 such as laptop kits, uninterruptible power supply kits, Wireless Distribution Module.

FY17 funding includes $\$ 3.6 \mathrm{M}$ for Overseas Contingency Operations.
PE 020588F: Security Forces (SF) Tactical Communication Radios - P40A
 AFCENT to support missions within the AOR.

Advanced Communications Systems PE 0207423F - P-5
PE 02027423F JOINT TACTICAL RADIO SYSTEM/JTRS:

| 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 | Item MDAP/MAIS Code(s): N/A |
| :--- | :--- |


 RF-310M Single Channel Non-CCI Radios.

Tactical Air Control Party-Mod PE 0207444F - P-5
PE 0207444F TACTICAL AIR CONTROL PARTY-MOD


 funding will procure the following:



 aircraft. TTG will use generator and commercial power, include a computer to host data link control software, and include all necessary masts, antennas, cables and ancillary equipment.







 use the vehicle-mounted GRC-259 Stryker communications system to conduct TACP communications from a Brigade tactical operations center.







 devices, cases, and other components that facilitate the operation and/or human factor impacts of the dismounted TACP.


 the software, incorporate new joint Digitally-aided CAS standards, and provide contract technical and help desk support to operators employing the software.
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 | Item MDAP/MAIS Code(s): N/A |
| :--- | :--- |

The TACP-M program will also use FY17 funding to support Interim Contractor Support (ICS) for equipment such as, but not limited to, Operational Control Systems (OCS) and targeting devices prior to transitioning to long-term sustainment.

Special Tactics / Combat Control PE 0408011F - P-5
PE 0408011F BATTLEFIELD AIRMEN OPERATIONS (BAO) Kit
BATTLEFIELD AIRMEN OPERATIONS (BAO) Kit: FY17 funding in the amount of $\$ 15.133$ million will procure, test, sustain, and repair BAO Kit system of system components to optimize user information intake. Funding will be used to ensure interoperability to reduce the risk of fratricide, reduce the weight carried by individual Airmen, and reduce the time required to find, fix, track, target, and engage the enemy. The core capabilities included are but 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. Also, items included but not limited to training, initial spares, repairs and returns, and other equipment.
a. HUMAN MACHINE INTERFACE (HMI): This FY17 funding will procure HMI components that will provide integrated operator interface between all the machine components by using unified visual and auditory displays and controls, such as head-mounted displays and tactical earplug connectivity with communications. This system provides optimized user information portrayal and control of peripheral devices, to include modernization of communications, computing devices, portable electrical power generation and management, targeting and situational awareness software (machine to machine) designed to reduce risk of fratricide and reduce the time required to employ precision effects on the battlefield to single-digit minutes.

Web-based Geographic Information System (GIS) management tool, used to store, display, update, and report operational information on sensitive global airfields and Assault Zones (AZ) while incorporating approval processes designed to support rapid Global Mobility missions for the USG. Talon Point consists of three main system functions: A fully relational database with associated storage, a visual GIS tool, and a management tool/web application.
b. OPERATIONAL CONTROL SYSTEM (BAO KIT): FY17 funding will procure OCS units which is an integrated communication/display system comprised of a small wearable end user device, power and data management system, including integrated cabling and wireless data transmission that can readily connect and integrate all Battlefield Airmen Operations (BAO) Kit peripherals and portable power sources. The OCS system is a light weight, modular, plate carrier adaptable, integrated, easily configurable system that provides precise Situational Awareness and the ability to perform digitally-aided Close Air Support targeting for all Battlefield Airmen and Special Operations Forces.
c. LINE OF SIGHT (LOS): FY17 funding will procure LOS systems. LOS integrates target designators and sensors to enhance targeting effectiveness at ranges less than 3 km . The equipment provides battlefield airmen with the ability to geo-locate targets in both eye-safe and non-eye safe spectrums. The modernization of this equipment will significantly reduce the weight carried by the operator.

Items requested in FY17 as identified on the P-5 Exhibit are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

Combat Rescue - Pararescue (AFR) PE 0503133F - P-40A
PE 0503133F: COMBAT RESCUE - PARARESCUE (AFR)
No FY17 funding requested.

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 7
## P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment

## Date: February 2016

## Item Number / Title [DODIC]:

- / Tactical Airborne Control Systems

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

| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2015 |  |  |  | FY 2017 Base |  |  | FY 2017 OCO |  | FY 2017 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | 3 |  | 4 |  | 21 |  |  | 7 |  | - |  | 7 |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | - |  | 9.063 |  | 43.187 |  |  | 599 |  | - |  | 15.599 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | - |  | 9.063 |  | 43.187 |  |  | 599 |  | - |  | 15.599 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | - |  | 9.063 |  | 43.187 |  |  | 599 |  | - |  | 15.599 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  | - - <br> - 2.266 |  |  |  |  | - |  | - |  |  | - |  |  | - |
| Gross/Weapon System Unit Cost (\$ in Millions) |  |  |  |  |  |  |  |  |  | 2.057 |  | 2.228 |  |  | 2.228 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 (\$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) |
| Hardware - 0207418F Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TACP Fixed Simulators - JTC TRS ${ }^{(+)}$ | - | - | - | 2.000 | 4 | $4 \quad 8.000$ | 2.000 | 21 | 42.000 | 2.000 | 7 | 14.000 | - |  | - | 2.000 | 7 | 14.000 |
| Subtotal: Recurring Cost | - | - | - | - | - | 8.000 | - | - | 42.000 | - | - | 14.000 | - |  | - | - | - | 14.000 |
| Subtotal: Hardware - 0207418F Cost | - | - | - | - | - | 8.000 | - | - | 42.000 | - | - | 14.000 | - |  | - | - | - | 14.000 |
| Support - 0207418F Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA - Contractor Services and other Government Costs | - | - | - | 1.063 | 1 | $1 \quad 1.063$ | 1.187 | 1 | 1.187 | 1.599 | 1 | 1.599 | - |  | - | 1.599 | 1 | 1.599 |
| Subtotal: Support 0207418F Cost | - | - | - | - | - | 1.063 | - | - | 1.187 | - | - | 1.599 | - |  | - - | - | - | 1.599 |
| Gross/Weapon System Cost | - | 3 | - | 2.266 | 4 | $4 \quad 9.063$ | 2.057 | 21 | 43.187 | 2.228 | 7 | 15.599 | - |  | - | 2.228 | 7 | 15.599 |

## Remarks:

Congress provided a $\$ 36 \mathrm{M}$ addition in procurement funding in the FY16 Omnibus Appropriations Bill that funded an additional 18 simulators in FY16.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 4 | 21 | 7 | - | 7 |
|  | Total Obligation Authority | 9.063 | 43.187 | 15.599 | - | 15.599 |

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| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> - / Tactical Airborne Control Systems |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ |
|  | Quantity | 4 | 21 |  | 7 | 7 |
| Secondary Distribution | Total Obligation Authority | 9.063 | 43.187 | 15.599 | 9 | 15.599 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> - / Tactical Airborne Control Systems |  |  |  |  |
| 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 |
| TACP Fixed Simulators - JTC TRS |  | 2015 | QuantaDyn Corp / Sterling, Virginia | C/FFP | AFLCMC Wright Patterson AFB | Jan 2016 | Jun 2016 | 4 | 2.000 | Y |  | Aug 2015 |
| TACP Fixed Simulators - JTC TRS |  | 2016 | QuantaDyn Corp / Sterling, Virginia | C/FFP | AFLCMC Wright Patterson AFB | Sep 2016 | Dec 2016 | 21 | 2.000 | Y |  | Aug 2015 |
| TACP Fixed Simulators - JTC TRS |  | 2017 | QuantaDyn Corp / Sterling, Virgina | C/FFP | AFLCMC Wright Patterson AFB | Jan 2017 | Feb 2017 | 7 | 2.000 | Y |  | Aug 2015 |

## Remarks:

Contract was awarded on 7 January 2016.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force | Date: February 2016 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 03$ / 7 | P-1 Line Item Number / Title: <br> $837100 ~ / ~ T a c t i c a l ~ C-E ~ E q u i p m e n t ~$ | Aggregated Items Title: <br> Deployable C3 Systems |

Remarks:
a. CONTROLLED ITEM will be funded with investment funds to purchase military communications equipment classified as critical protection items.
b. PROGRAM MANAGEMENT ADMINISTRATION (PMA):

PMA for TDC 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
c. DIRECT MISSION SUPPORT (DMS):
 meetings, and events associated with fielding both hardware and software products, and maintaining configuration control of fielded products

Exhibit P-5, Cost Analysis: PB 2017 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7

## P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment

Date: February 2016

## Item Number / Title [DODIC]:

- / Advanced Communications Systems

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


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| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> - I Advanced Communications Systems |  |  |  |  |
| 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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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 <br> 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) |
| Gross/Weapon System Cost | . | - | - | . | . | - | 0.008 | 1,220 | 9.933 | 10.397 | 1 | 10.397 | . | - | . | 10.397 | 1 | 10.397 |

Remarks:
a. Controlled Item will be funded with investment funds to purchase military communications equipment classified as critical protection items
b. Program Management Administration (PMA):PMA supports AF JTRS program with Engineering and technical support, as well as, support activities for the program.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | 1,220 | 1 | - | 1 |
|  | Total Obligation Authority | - | 9.933 | 10.397 | - | 10.397 |
| Total: | Quantity | - | 1,220 | 1 | - | 1 |
| Secondary Distribution | Total Obligation Authority | - | 9.933 | 10.397 | - | 10.397 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> - / Advanced Communications Systems |  |  |  |  |
| Cost Elements | $\begin{aligned} & \hline \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{o} \end{aligned}$ | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\underset{(\text { Each }}{\text { Qty }}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | $\begin{aligned} & \text { RFP Issue } \\ & \text { Date } \end{aligned}$ |
| 2-CH Base Station |  | 2017 | Harris Corporation / Rochester, NY | Various | AFLCMC Hanscom AFB | Feb 2017 | May 2017 | 7 | 0.050 | Y |  |  |
| $2-\mathrm{CH}$ Kit |  | 2017 | Harris Corporation / Rochester, NY | Various | AFLCMC Hanscom AFB | Feb 2017 | May 2017 | 25 | 0.002 | Y |  |  |
| PRC-152A Accessory System |  | 2017 | Harris Corporation / Rochester, NY | Various | AFLCMC Hanscom AFB | Feb 2017 | Jun 2017 | 21 | 0.005 | Y |  |  |
| Manpack Radio |  | 2016 | Harris Corporation / Rochester, NY | Various | AFLCMC Hanscom AFB | Jun 2016 | Oct 2016 | 232 | 0.042 | Y |  |  |
| Manpack Radio |  | 2017 | Harris Corporation / Rochester, NY | Various | AFLCMC Hanscom AFB | Feb 2017 | May 2017 | 19 | 0.040 | Y |  |  |
| MUOS |  | 2017 | Harris Corporation / Rochester, NY | Various | AFLCMC Hanscom AFB | Mar 2017 | Jul 2017 | 350 | 0.025 | Y | Feb 2017 |  |

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 7
## P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment

Date: February 2016

## 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 2015 |  | FY 2016 |  | FY 2017 Base |  |  | FY 2017 OCO |  | FY 2017 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | 283 |  | 1,030 |  |  | . 034 |  | - |  | 1,034 |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 20.504 |  | 32.151 |  |  | 823 |  | - |  | 41.823 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 20.504 |  | 32.151 |  |  | 823 |  | - |  | 41.823 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 20.504 |  | 32.151 |  |  | 823 |  | - |  | 41.823 |
| (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) |  |  |  |  |  |  | - |  | 0.072 |  | 0.031 |  |  | 040 |  | - |  | 0.040 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <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 <br> (\$ M) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DISMOUNTED <br> EQUIPMENT AD ${ }^{(\dagger)}$ | - | - | 0.000 | 0.018 | 183 | 3.307 | 0.002 | 708 | 1.550 | 0.003 | 719 | 2.226 | - |  | - - | 0.003 | 719 | 2.226 |
| DISMOUNTED EQUIPMENT ANG ${ }^{(\dagger)}$ | - | - | 0.000 | 0.018 | 61 | 1.102 | 0.002 | 235 | 0.517 | 0.003 | 240 | 0.742 | - |  | - - | 0.003 | 240 | 0.742 |
| $\begin{aligned} & \text { CASS } 145 \text { (Service } \\ & \text { Packs) }^{(\dagger)} \end{aligned}$ | - | - | 0.000 | - | - | - | 1.200 | 1 | 1.200 | 3.074 | 1 | 3.074 | - |  | - - | 3.074 | 1 | 3.074 |
| TACP TRANSPORTABLE GATEWAY (TTG) ${ }^{(\dagger)}$ | - | - | 0.000 | - | - | - | 0.426 | 3 | 1.277 | 0.427 | 14 | 5.973 | - |  | - - | 0.427 | 14 | 5.973 |
| MOBILE COMMUNICATIONS SYSTEMS (MCS) ${ }^{(\dagger)}$ | - | - | 0.000 | 0.230 | 32 | 7.352 | 0.231 | 74 | 17.094 | 0.231 | 54 | 12.479 | - |  | - - | 0.231 | 54 | 12.479 |
| Subtotal: Recurring Cost | - | - | 0.000 | - | - | 11.761 | - | - | 21.638 | - | - | 24.494 | - |  | - - | - | - | 24.494 |
| Subtotal: Hardware - <br> Hardware End Item Cost | - | - | 0.000 | - | - | 11.761 | - | - | 21.638 | - | - | 24.494 | - |  | - | - | - | 24.494 |
| Hardware - 0207444F Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MOBILE COMMUNICATIONS SYSTEMS (MCS) | - | - | 0.000 | 2.308 | 1 | 2.308 | 4.863 | 1 | 4.863 | 10.800 | 1 | 10.800 | - |  | - - | 10.800 | 1 | 10.800 |
| TACP TRANSPORTABLE GATEWAY (TTG) | - | - | 0.000 | - | - | - | 0.026 | 1 | 0.026 | 0.544 | 1 | 0.544 | - |  | - - | 0.544 | 1 | 0.544 |

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3080F / 03 / 7ID Code (A=Service Ready, B=Not Service Ready) : A Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding

|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 (\$ 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) |
| Subtotal: Non Recurring Cost | - | - | 0.000 | - | - | 2.308 | - | - | 4.889 | - | - | 11.344 | - | - | - | - | - | 11.344 |
| Subtotal: Hardware 0207444F Cost | - | - | 0.000 | - | - | 2.308 | - | - | 4.889 | - | - | 11.344 | - | - | - | - | - | 11.344 |
| Support - 0207444F Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FULL MOTION VIDEO RECEIVER ICS | - | - | 0.000 | 0.067 | 1 | 0.067 | 0.068 | 1 | 0.068 | - | - | - | - | - | - | - | - | - |
| OPERATIONAL CONTROL SYSTEM ICS AD | - | - | 0.000 | - | - | - | 0.300 | 1 | 0.300 | - | - | - | - | - | - | - | - | - |
| OPERATIONAL CONTROL SYSTEM ICS ANG | - | - | 0.000 | - | - | - | 0.100 | 1 | 0.100 | - | - | - | - | - | - | - | - | - |
| CRANE SUPPORT ${ }^{(+)}$ | - | - | 0.000 | 4.274 | 1 | 4.274 | 2.706 | 1 | 2.706 | 2.759 | 1 | 2.759 | - | - | - | 2.759 | 1 | 2.759 |
| PMA CONTRACTOR SERVICES ${ }^{(\dagger)}$ | - | - | 0.000 | 1.193 | 1 | 1.193 | 1.630 | 1 | 1.630 | 2.129 | 1 | 2.129 | - | - | - | 2.129 | 1 | 2.129 |
| PMA OTHER GOV'T COSTS | - | - | 0.000 | 0.447 | 1 | 0.447 | 0.601 | 1 | 0.601 | 0.327 | 1 | 0.327 | - | - | - | 0.327 | 1 | 0.327 |
| MCS ICS | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TTG ICS | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TARGETING DEVICES ICS | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| VCP DELTA KIT (VDK) | - | - | - | 0.083 | 1 | 0.083 | - | - | - | - | - | - | - | - | - | - | - | - |
| TEST SUPPORT | - | - | - | 0.371 | 1 | 0.371 | 0.219 | 1 | 0.219 | 0.770 | 1 | 0.770 | - | - | - | 0.770 | 1 | 0.770 |
| Subtotal: Support 0207444F Cost | - | - | 0.000 | - | - | 6.435 | - | - | 5.624 | - | - | 5.985 | - | - | - | - | - | 5.985 |
| Gross/Weapon System Cost | - | - | 0.000 | 0.072 | 283 | 20.504 | 0.031 | 1,030 | 32.151 | 0.040 | 1,034 | 41.823 | - | - | - | 0.040 | 1,034 | 41.823 |


| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 205 | 1,030 | 1,034 | - | 1,034 |
|  | Total Obligation Authority | 19.643 | 32.151 | 41.823 | - | 41.823 |
| AFNG | Quantity | 78 | - | - | - | - |
|  | Total Obligation Authority | 0.861 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 283 | 1,030 | 1,034 | - | 1,034 |
|  | Total Obligation Authority | 20.504 | 32.151 | 41.823 | - | 41.823 |

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  | Date: February 2016 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 | P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment | Item Number / Title [DODIC]: - / Tactical Air Control Party-Mod |
| ID Code (A=Serice Ready, $\mathrm{B}=$ Not Serice Ready) : A | MDAP |  |

ee Ready) : A
MDAP/MAIS Code:
${ }^{(t)}$ indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3080F/03/7

|  | 0 |
| :---: | :---: |
| Cost Elements | $\mathbf{C}$ |


| DISMOUNTED EQUIPMENT AD |  |
| :---: | :---: |
| DISMOUNTED EQUIPMENT AD |  |


|  |  |
| :--- | :--- |
| DISMOUNTED EQUIPMENT AD |  |
| DISMOUNTED EQUIPMENT ANG |  |


| DISMOUNTED EQUIPMENT ANG |
| :--- |
| DISMOUNTED EQUIPMENT ANG |
| CASS 145 (Service Packs) |


|  |  |
| :--- | :--- |
| CASS 145 (Service Packs) |  |
| TACP TRANSPORTABLE |  |


| GATEWAY (TTG) |  |
| :--- | :--- |
| TACP TRANSPORTABLE |  |
| GATEWAY (TTG) |  |
| MOBILE COMMUNICATIONS |  |


| MOBILE COMMUNICATIONS |
| :--- |
| SYSTEMS (MCS) |
| MOBILE COMMUNICATIONS |
| SYSTEMS (MCS) |

SYSTEMS (MCS)
SYSTEMS (MCS)
CRANE SUPPORT
CRANE SUPPORT
CRANE SUPPORT
PMA CONTRACTOR SERVICES
PMA CONTRACTOR SERVICES
PMA CONTRACTOR SERVICES

P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment

## Date: February 2016

## Item Number / Title [DODIC]:

- / Tactical Air Control Party-Mod


## Remarks:

The MCS Contract is currently in Source Selection.
The current schedule reflects an award in Feb 2016
Dismounted unit costs fluctuate based on equipment types purchased.

## UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Air Base Ground Defense |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tactical <br> Communications <br> Radios | A |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | 4.500 | - | - | 4.500 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | - | - |  | - | 4.500 |  | - | 4.500 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.500 | - | - | 4.500 |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.500 | - | - | 4.500 |

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 7
## P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment

## Date: February 2016

## 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 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 2,164 | 1,377 | 2,158 | - | 2,158 |
| Gross/Weapon System Cost (\$ in Millions) | - | 16.520 | 31.107 | 15.133 | - | 15.133 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 16.520 | 31.107 | 15.133 | - | 15.133 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 16.520 | 31.107 | 15.133 | - | 15.133 |
| (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) | - | 0.008 | 0.023 | 0.007 | - | 0.007 |

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

|  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | Qty | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty <br> (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | Qty | Total Cost (\$ M) | Unit Cost (\$M) | Qty | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty | Total Cost (\$ M) | Unit Cost (\$ M) | Qty | Total Cost (\$ M) |

Hardware - Hardware End Item Cost
Recurring Cost

| HUMAN MACHINE INTERFACE ${ }^{(+)}$ | - | - | - | 0.004 | 1,720 | 7.217 | 0.004 | 1,073 | 4.292 | 0.004 | 1,749 | 6.996 | - | - | - | 0.004 | 1,749 | 6.996 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OPERATIONAL CONTROL SYSTEM (BAO KIT) ${ }^{(\dagger)}$ | - | - | - | 0.015 | 430 | 6.450 | 0.015 | 294 | 4.410 | 0.015 | 402 | 6.030 | - | - | - | 0.015 | 402 | 6.030 |
| LINE OF SIGHT ${ }^{(+)}$ | - | - | - | 0.200 | 12 | 2.400 | 0.200 | 7 | 1.400 | 0.200 | 5 | 1.000 | - | - | - | 0.200 | 5 | 1.000 |
| BAO KIT/VEHICLE COMMS/MOBILE GATEWAY | - | - | - | - | - | - | 19.900 | 1 | 19.900 | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | - | - | - | 16.067 | - | - | 30.002 | - | - | 14.026 | - | - | - | - | - | 14.026 |
| Subtotal: Hardware - <br> Hardware End Item Cost | - | - | - | - | - | 16.067 | - | - | 30.002 | - | - | 14.026 | - | - | - | - | - | 14.026 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA CONTRACTOR SERVICES ${ }^{(\dagger)}$ | - | - | - | 0.208 | 1 | 0.208 | 0.906 | 1 | 0.906 | 0.906 | 1 | 0.906 | - | - | - | 0.906 | 1 | 0.906 |
| PMA OTHER GOVERNMENT COSTS | - | - | - | 0.245 | 1 | 0.245 | 0.199 | 1 | 0.199 | 0.201 | 1 | 0.201 | - | - | - | 0.201 | 1 | 0.201 |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 0.453 | - | - | 1.105 | - | - | 1.107 | - | - | - | - | - | 1.107 |
| Gross/Weapon System Cost | - | - | - | 0.008 | 2,164 | 16.520 | 0.023 | 1,377 | 31.107 | 0.007 | 2,158 | 15.133 | - | - | - | 0.007 | 2,158 | 15.133 |

Remarks:

UNCLASSIFIED


[^8]UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> - I Special Tactics / Combat Control |  |  |  |  |
| Cost Elements | 0 <br> C <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award <br> Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | $\begin{gathered} \text { RFP Issue } \\ \text { Date } \end{gathered}$ |
| HUMAN MACHINE INTERFACE |  | 2015 | Mutiple / Multiple | Various | AFLCMC Wright Patterson AFB | Feb 2015 | May 2015 | 1,720 | 0.004 | Y |  |  |
| HUMAN MACHINE INTERFACE |  | 2016 | Multiple / Multiple | Various | AFLCMC Wright Patterson AFB | Oct 2015 | Jan 2016 | 1,073 | 0.004 | Y |  |  |
| HUMAN MACHINE INTERFACE |  | 2017 | Multiple / Multiple | Various | AFLCMC Wright Patterson AFB | Dec 2016 | Mar 2017 | 1,749 | 0.004 | Y |  |  |
| OPERATIONAL CONTROL SYSTEM (BAO KIT) |  | 2015 | Black Diamond, LLC. / AZ | SS/FFP | AFLCMC Wright Patterson AFB | Jul 2015 | Aug 2015 | 430 | 0.015 | Y |  |  |
| OPERATIONAL CONTROL SYSTEM (BAO KIT) |  | 2016 | Black Diamond, LLC. / AZ | SS/FFP | AFLCMC Wright Patterson AFB | Feb 2016 | Mar 2016 | 294 | 0.015 | Y |  |  |
| OPERATIONAL CONTROL SYSTEM (BAO KIT) |  | 2017 | Black Diamond, LLC / AZ | SS/FFP | AFLCMC Wright Patterson AFB | Feb 2017 | Mar 2017 | 402 | 0.015 | Y |  |  |
| LINE OF SIGHT |  | 2015 | ARGON ST, INC / FL | C/FFP | AFLCMC Wright Patterson AFB | Apr 2015 | Jul 2015 | 12 | 0.200 | Y |  |  |
| LINE OF SIGHT |  | 2016 | ARGON ST, INC / FL | C/FFP | AFLCMC Wright Patterson AFB | Apr 2016 | Jul 2016 | 7 | 0.200 | Y |  |  |
| LINE OF SIGHT |  | 2017 | ARGON ST, INC / FL | C/FFP | AFLCMC Wright Patterson AFB | Apr 2017 | Jul 2017 | 5 | 0.200 | Y |  |  |
| PMA CONTRACTOR SERVICES |  | 2015 | Multiple / Multiple | Various | AFLCMC Wright Patterson AFB | Oct 2014 | Mar 2015 | 1 | 0.208 | Y |  |  |
| PMA CONTRACTOR SERVICES |  | 2016 | Multiple / Multiple | Various | AFLCMC Wright Patterson AFB | Oct 2015 | Mar 2016 | 1 | 0.906 | Y |  |  |
| PMA CONTRACTOR SERVICES |  | 2017 | Multiple / Multiple | Various | AFLCMC Wright Patterson AFB | Oct 2016 | Mar 2017 | 1 | 0.906 | Y |  |  |

## Remarks:

1. FY15 OCS Source Selection contract awarded Jul/2015.
2. PMA Contractor Service include Travel. A\&AS contract with SUMARIA INC, Danvers, MA; C/FFP. POP Mar of current FY thru Feb next FY. In FY 16 EPASS contract will add additional cost to PMA.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 837100 / Tactical C-E Equipment |  |  |  |  |  |  |  | Aggregated Items Title: <br> Combat Rescue - Pararescue (AFR) |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Combat Rescue- <br> Pararescue | A |  | - | - | - | - | - | - - | 4.065 | 1 | 4.065 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 4.065 |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | $\cdot$ | - | - - | - | - | 4.065 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | - | - - | - | - | 4.065 | - | - | - | - | - | - | - | - | - |

## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 14.846 | 8.400 | 16.266 | - | 16.266 | 15.588 | 13.990 | 14.237 | 14.493 | - | 97.820 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 14.846 | 8.400 | 16.266 | - | 16.266 | 15.588 | 13.990 | 14.237 | 14.493 | - | 97.820 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 14.846 | 8.400 | 16.266 | - | 16.266 | 15.588 | 13.990 | 14.237 | 14.493 | - | 97.820 |
| (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 procures and integrates SCOPE Command High Frequency (HF) radio equipment, network infrastructure, and transmit/receive antennas for 13 strategically located ground stations worldwide. All hardware and software, including radios and antennas, is commercial-off-the-shelf (COTS) with the exception of the integrating software that provides the military functionality required for the COTS equipment to operate. This integrating software is a COTS-based product that has been modified for the DoD to provide the unique capabilities required. The need for modern, robust, and dependable stations with beyond line of sight radio coverage has been identified to ensure HF radio communications is available in additional areas of interest to the United States.

High Frequency Global Communications System (HFGCS) is the only global high-power HF C2 network serving the Department of Defense (DoD). HFGCS consists of two major components: the radio/ network infrastructure (SCOPE Command) and the antennas (Antenna Program Support) which communicate with mobile assets (aircraft, Navy ships, Coast Guard ships). HFGCS supports aircrews, ground forces, naval operations, and control stations and is the primary C2 resource for Air Mobility Command cargo and tanker aircraft. Additional customers include White House Communications Agency (WHCA), Defense Communications System HF Entry, US Navy High Command Network, and other US government agencies. HFGCS supports war plan dissemination and daily operational requirements for WHCA, Joint Chiefs of Staff (JCS), US Strategic Command, National Military Command Center's Emergency Action Message distribution, Special Air Mission communications, Major Air Force Commands and Combatant Commanders. HFGCS provides radio connectivity to other governmental organizations such as the Civil Air Patrol, Federal Emergency Management Agency, Transportation Security Administration, and the State Department. The HFGCS network supports Overseas Contingency Operations by providing secure, robust, physically diverse terrestrial and airborne transmission paths, providing information services between fixed and deployed operating locations. The HFGCS has also been identified as a key communications component in supporting operations in an anti-access area-denial (A2AD) environment.

The HFGCS program has recently completed the Alternate Network Control Station at Grand Forks AFB, ND, eliminating a major single point of failure of the HFGCS network. Additionally, the program has modernized the system consoles to provide increased system security and operations capabilities and has installed additional radios at HFGCS stations to consolidate with US Navy operations, allowing the Navy to close obsolete HF stations. FY17 funds Direct Mission Support/Program Management Administration (DMS/PMA), System Engineering, JITC Installation Testing and Shipping costs for these procurement efforts.

Funding for this effort is in program element 0303133F

## 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 O |  |  |  | Other Related Program Elements: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | Radio Equipment | P-5a | A | 1 - | - /14.846 | - 18.400 | - /16.266 | 1 | - / 16.266 |
| P-40 | Total Gross/Weapon System Cost |  |  | 1 | - / 14.846 | - 18.400 | - $/ 16.266$ | 1 | - $/ 16.266$ |

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

## Justification:

The HFGCS FY17 program supports two main projects within the SCOPE Command Radio/Network Infrastructure Modernization and continues the Antenna Replacement program.

 FY17 funds Direct Mission Support/ Program Management Administration (DMS/PMA), System Engineering, JITC Installation Testing and Shipping costs for these procurement efforts.


 career field.





 Technical Strategy. This modernization will also position the program to leverage wideband/digital HF.


 Ascension Island, Joint Base Andrews, West Coast, Guam, Croughton, Lajes, Sigonella, Offutt, Yokota, and Hawaii scheduled for follow-on efforts.

Exhibit P-5, Cost Analysis: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3080F / 03 / 7ID Code (A=Service Ready, B=Not Service Ready) : A

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 14.846 | 8.400 | 16.266 | - | 16.266 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 14.846 | 8.400 | 16.266 | - | 16.266 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 14.846 | 8.400 | 16.266 | - | 16.266 |
| (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) | - | - | - | - | - | - |

Date: February 2016

## Item Number / Title [DODIC]

- / Radio Equipment


## P-1 Line Item Number / Title: 837190 / Radio Equipment

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| Exhibit P-5, Cost Analysis: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  | P-1 Line Item Number / Title: 837190 / Radio Equipment |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> - / Radio Equipment |  |  |  |  |
| 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 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Cost Elements | 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) | 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) |
| Gross/Weapon System Cost | . | . | . | - | - | 14.846 | - | - | 8.400 | - | - | 16.266 | - |  |  | - |  | 16.266 |

## Remarks:

Controlled Item will be funded with investment funds to purchase military communications equipment classified as critical protection items.
Each site has unique site installation requirements (i.e. terrain, weather, environmental laws, international/NATO coordination). Locations range from Diego Garcia, Ascension Island, Lajes, and Guam (mid-ocean locations, volcanic terrain and weather issues); Maryland and California (environmental laws); Yokota, Croughton, and Sigonella (international/NATO coordination). As such, unit cost varies from year to year.
$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  | P-1 Line Item Number / Title: 837190 / Radio Equipment |  |  |  | Item Number / Title [DODIC]: <br> - / Radio Equipment |  |  |  |  |
| 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? |  | RFP Issue Date |
| SCOPE Command-NextGen Console Framework/Unified Capabilities/Audio Communications Functionality |  | 2015 | Rockwell-Collins / Richardson, TX | SS/FFP | AFLCMC Tinker AFB | Jun 2015 | Nov 2015 | 2 | 2.261 | Y |  |  |
| SCOPE Command-NextGen Console Framework/Unified Capabilities/Audio Communications Functionality |  | 2016 | Rockwell-Collins / Richardson, TX | SS/FFP | AFLCMC Tinker AFB | Apr 2016 | Oct 2016 | 2 | 1.083 | Y |  |  |
| SCOPE Command-NextGen Console Framework/Unified Capabilities/Audio Communications Functionality |  | 2017 | Rockwell-Collins / Richardson, TX | SS/FFP | AFLCMC Tinker AFB | Jan 2017 | Jul 2017 | 6 | 2.027 | Y |  |  |
| HFGCS Station Antenna Replacements |  | 2015 | Long-Wave International I Oklahoma City, OK | C/IDIQ | AFLCMC Tinker AFB | Jan 2015 | Jun 2015 | 9 | 1.084 | Y |  |  |
| HFGCS Station Antenna Replacements |  | 2016 | Long-Wave International I Oklahoma City, OK | C/IDIQ | AFLCMC Tinker AFB | Feb 2016 | Jul 2016 | 5 | 1.107 | Y |  |  |
| HFGCS Station Antenna Replacements |  | 2017 | Long-Wave International I Oklahoma City, OK | C/IDIQ | AFLCMC Tinker AFB | May 2017 | Aug 2017 | 3 | 1.200 | Y |  |  |

## Remarks:

 increment. FY15 has 1 Installation and 1 Production effort; FY16 has 2 Installations [resulting in lowest unit cost]; and FY17 has 2 Increment Installations and 1 Production effort.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2017$ <br> Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 3.635 | 6.144 | 7.449 | - | 7.449 | 5.427 | 4.977 | 5.064 | 5.157 | - | 37.853 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 3.635 | 6.144 | 7.449 | - | 7.449 | 5.427 | 4.977 | 5.064 | 5.157 | - | 37.853 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 3.635 | 6.144 | 7.449 | - | 7.449 | 5.427 | 4.977 | 5.064 | 5.157 | - | 37.853 |
| (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:

The FY17 funding request was reduced by $\$ .009 \mathrm{M}$ to account for the availability of prior year execution balances.
Visual Information Activities - Strategic PE 0102890F - P-40A





 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.

Information Technology Services Management - Other PE 0305550F - P-40A





 camera systems that are no longer logistically supportable.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 It |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | Visual Information Activities - Strategic |  |  | - 1 - | - 11.990 | - 16.144 | - 17.449 | - 1 - | - 17.449 |
| P-40a | Information Technology Services Management - Other |  |  | - 1 - | - $/ 1.645$ | - 1 - | - 1 - | - 1 | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1 - | - 13.635 | - 16.144 | - 17.449 | - 1- | - 17.449 |

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

## Justification:

Visual Information Activities - Strategic PE 0102890F - P-40A


 graphics and video products that aid public diplomacy, internal/external communication, information operations, operational/planning efforts, and effective/efficient training.

Information Technology Services Management - Other PE 0305550F - P-40A
WESTERN TEST RANGE DIGITAL IMAGING SYSTEMS: No FY17 funding requested.

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 837240 / CCTV/Audiovisual Equipment |  |  |  |  |  |  |  | Aggregated Items Title: Visual Information Activities - Strategic |  |  |  |  |
|  |  |  |  | rior Years |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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 (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCTV/AUDIO VISUAL EQUIPMENT AB1000 | A |  | - | - | - | - | - | 0.679 | - | - | 0.534 | - | - | 0.720 | - | - | - | - | - | 0.720 |
| CCTVIAUDIO VISUAL EQUIPMENT AB2000 COMCAM | A |  | - | - | - | - | - | 1.311 | - | - | 2.466 | - | - | 3.000 | - | - | - | - | - | 3.000 |
| cctviaudio visual EQUIPMENT AB2000 WESTERN TEST RANGE | A |  | - | - | - | - | - | - | - | - | 3.144 | - | - | 3.729 | - | - | - | - | - | 3.729 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 1.990 | - | - | 6.144 | - | - | 7.449 | - | - | - | - | - | 7.449 |
| Total |  |  | - | - | - | - | - | 1.990 | - | - | 6.144 | - | $\cdot$ | 7.449 | - | - | - | - | - | 7.449 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 837240 / CCTV/Audiovisual Equipment |  |  |  |  |  |  |  |  | Aggregated Items Title: Information Technology Services Management - Other |  |  |  |  |
|  |  MDAP/ <br> ID MAIS <br> CD Code |  | Prior Years |  |  | FY 2015 |  |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Western Test Range Digital Imaging Systems Equipment | A |  | - | - | - | 1.645 |  | 1 | 1.645 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - |  | 1.645 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | $\cdot$ | - | $\cdot$ | $\cdot$ |  | 1.645 | - | $\cdot$ | - | $\cdot$ | - | - | - | $\cdot$ | - | - | - | - |

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 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 95.759 | 82.410 | 109.215 | - | 109.215 | 111.780 | 62.315 | 46.097 | 49.178 | - | 556.754 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 95.759 | 82.410 | 109.215 | - | 109.215 | 111.780 | 62.315 | 46.097 | 49.178 | - | 556.754 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 95.759 | 82.410 | 109.215 | - | 109.215 | 111.780 | 62.315 | 46.097 | 49.178 | - | 556.754 |
| (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:

MINUTEMAN Communications PE 0101323F - P-40A

 nuclear mission by providing an adequate bench stock to ensure a survivable nuclear communications path from the POTUS/SecDef to ICBM forces in the field.

Contingency Operations PE 0208028F - P-40A

 the installation's capability to execute its assigned mission.

Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities) PE 0208059F - P-40A


 hardware) supports ongoing USCYBERCOM activities.

Communications and Information Technology PE 0308611F - P-40A




 following: Air Force Network Integration Center, Air Force Spectrum Management Office, AFSPC Cyber Support Squadron or HQ AFSPC.

## 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 $\quad$ Item MDAP/MAIS Code(s): N/A

F-22A Squadrons PE 0207138F - P-40A
 communications infrastructure is essential to meet evolving Warfighter mission requirements. This is a continuing requirement.

AF Network Ops and Command Comms PE 0207425F - P-40A
 Technology (IT) services, enterprise trouble desk support, and network control.

Engineering and Installation - Air Force PE 0207436F - P-40A




Information Technology Services Management - Tactical Air Forces PE 0208550F - P-40A
 civilian personnel and allow AFSOC to meet the mission of presenting combat ready forces to conduct and support global special operations missions. This is a continuing requirement.

 access to secure voice, data, and video systems. This is a continuing requirement. FY15 funding totals include $\$ 1.970 \mathrm{M}$ for Overseas Contingency Operations (OCO).

 personnel at 11 major bases and 7 associated units throughout the United States. This is a continuing requirement.



 plans. This is a continuing requirement. FY16 funding totals include $\$ 15.400 \mathrm{M}$ for Overseas Contingency Operations (OCO).

Long-Haul Communications - DCS PE 0303126F - P-40A

 specifications required to connect Defense Information Systems Agency (DISA) long haul circuit equipment to base facilities. This is a continuing requirement.

Theater Nuclear Weapon Storage \& Security System PE 0305155F - P-40A
 These efforts directly impact sustainment efforts and crypto upgrades for the aging WS3 system installed at multiple nuclear capable sites.

Information Technology Services Management - Other PE 0305550F - P-40A

## 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 Item MDAP/MAIS Code(s): N/A

a. Air Force District of Washington (AFDW) Base Communications Network Equipment: Funds support the procurement of network infrastructure replacements, and support of AFDW's classified and unclassified networks. These efforts directly impact accomplishment of the AF mission at all levels such as strategic decision making, execution of operations, and support to US senior leadership including the POTUS, SECDEF, CJCS, and the CSAF. This is a continuing requirement.
b. AFSPC Base Communications Infrastructure Equipment: Procurements ensure base-level network access for more than 40,000 AFSPC professionals including military, civilians and contractors. Funding supports base operations by providing required AFSPC-wide hardware and software purchases, ensuring the deployment of consistent, compatible, and interoperable communications technology. This is a continuing requirement.

Information Technology Services Management - Mobility Air Forces PE 0408550F - P-40A
Air Force District Washington (AFDW) Base Communications Infrastructure Equipment: Funds support network infrastructure replacements and AFDW's classified and unclassified networks. These efforts directly support strategic decision making, execution of operations, and support to US senior leadership including the POTUS, SECDEF, CJCS, and the CSAF. This is a continuing requirement.

Information Technology Services Management - AFR PE 0505550F - P-40A
Air Force Reserve Command (AFRC) Base Communications Infrastructure Equipment: Funds provide for recapitalization, and support of base communications infrastructure at AFRC, an AF MAJCOM consisting of a HQ, three Numbered Air Forces (NAFs), 45 flying wings/groups and more than 40 Geographically Separated Units (GSUs); Air Reserve Personnel Center (ARPC) and the Major Command Coordinating Center (MCCC). Funding supports AFR-wide programs providing base communications infrastructure consistency. Funding provides AFR-wide hardware and software purchases, thus ensuring the deployment of consistent, compatible, and interoperable technology and architecture. This is a continuing requirement.

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.

Information Technology Services Management - ANG PE 0508550F - P-40A
ANG Base Communications Infrastructure Equipment: Funds provide for life cycle support of base communications infrastructure at 89 ANG flying wings and more than 106 GSUs, including the ANG Network Operations and Security Center (NOSC). Funds support ANG-wide base communications infrastructure projects consistent with AF IT standards and for compatibility of the ANG enterprise with the AF and the Department of Defense (DoD) centralized networks. This is a continuing requirement.

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.

Information Technology Services Management - Logistics PE 0708550F - P-40A
Air Force Materiel Command (AFMC) Base Communications infrastructure Equipment: Funding supports command wide and base approved, MAJCOM validated communications requirements as identified in base communications blueprints. Funding ensures life cycle support to manage legacy Time Division Multiplex (TDM) telephone switches and communications infrastructure due to end of shelf life and end of parts support. This funding provides the ability to migrate to a Voice over IP (VoIP) Assured Services Local Area Network (ASLAN) solution improving critical C2 and keeps base communications infrastructure on pace with current technological developments. The program supports procurement of LMR trunking systems at AFMC locations in direct support for emergency responders participating in base, local, civil and federal disaster response as well as Battle Staff and Crisis Action Team (CAT) operations. These support the Agile Combat Support (ACS), logistical, command and control mission, as well as first responder services at 9 AFMC bases supporting 100,000 personnel.

In response to the Ft Hood incident and in accordance with DoD instruction 6055.17, DoD policy mandates every installation implement a Mass Notification System (MNS) to notify and direct personnel and populace in the event of major accidents, natural disasters, wartime or terrorist attacks, and other contingencies. This system is a critical aspect to alert, warn and provide instructions to the base population of current and predicted threats. This is a continuing requirement.

Information Technology Services Management - Training PE 0808550F - P-40A

Exhibit P-40, Budget Line Item Justification: PB 2017 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:
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 $\quad$ Item MDAP/MAIS Code(s): N/A


 continuing requirement.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 72.311 | 80.135 | 98.107 | - | 98.107 | 93.441 | 32.454 | 33.024 | 33.619 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 23.129 | 1.993 | 10.781 | - | 10.781 | 10.548 | 8.940 | 9.098 | 9.261 |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.319 | 0.282 | 0.327 | - | 0.327 | 0.333 | 0.339 | 0.345 | 0.351 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 95.759 | 82.410 | 109.215 | - | 109.215 | 104.322 | 41.733 | 42.467 | 43.231 |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \\ & \hline \end{aligned}$ | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-40a | MINUTEMAN Communications |  |  | 1 - | - 1 | - 16.060 | - 1 - | - 1 | - 1 |
| P-40a | Contingency Operations |  |  | 1 | 1 - | - 12.499 | 1 | 1 | 1 |
| P-40a | Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities) |  |  | - 1 - | - 1 - | - 13.439 | - /41.817 | - 1 - | - /41.817 |
| P-40a | Communications and Information Technology |  |  | 1 | 1 | - 1 | - 15.812 | - 1 - | - 15.812 |
| P-40a | PE 0207138F - F-22A Squadrons |  |  | 1 | - 11.072 | - 10.814 | - 10.971 | 1 | - 10.971 |
| P-40a | AF Network Ops and Command Comms |  |  | 1 | - 10.846 | 1 | - 1 | - 1 - | 1 |
| P-40a | Engineering and Installation - Air Force |  |  | - 1 - | - 136.884 | - / 15.574 | 1 | - 1 - | 1 |
| P-40a | Information Technology Services Management - Tactical Air Forces |  |  | - 1 - | - / 12.702 | - /18.374 | - 136.578 | - 1 - | - / 36.578 |
| P-40a | Long-Haul Communications - DCS |  |  | 1 | - 10.648 | - 10.077 | - 1 - | -1 | 1 - |
| P-40a | Theater Nuclear Weapon Storage \& Security System |  |  | 1 | - 1 - | - 17.163 | - 16.159 | - 1 | - 16.159 |
| P-40a | Information Technology Services Management - Other |  |  | - 1 - | - /14.590 | - 123.297 | - 13.082 | -1 | - 13.082 |
| P-40a | Information Technology Services Management - Mobility Air Forces |  |  | - 1 - | - 10.853 | - 10.638 | - 10.738 | - 1 - | - 10.738 |
| P-40a | Information Technology Services Management - AFR |  |  | - 1 - | - 10.319 | - 10.282 | - 10.327 | - 1 - | - 10.327 |
| P-40a | Information Technology Services Management - ANG |  |  | - 1 - | - 123.129 | - 11.993 | - / 10.781 | - 1 | - /10.781 |
| P-40a | Information Technology Services Management - Logistics |  |  | - 1 - | - 12.263 | - 11.540 | - 11.785 | - 1 | - 11.785 |
| P-40a | Information Technology Services Management - Training |  |  | 1 | - 12.453 | - 10.660 | - 11.165 | - 1 | - 11.165 |
| P-40 | Total Gross/Weapon System Cost |  |  | 1 | - 195.759 | - 182.410 | - /109.215 | 1 | - /109.215 |

[^9] Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification

This program, PE 0308611F P-40A Item AFSPC Communications Infrastructure Equipment, is a new start.
MINUTEMAN Communications PE 0101323F - P-40A
No FY17 funding requested.
Contingency Operations PE 0208028F - P-40A
U.S. Air Forces in Europe and Air Forces Africa (USAFE-AFAFRICA) Contingency Operations Infrastructure Equipment: No FY17 funding requested.

Service Support to Other Core Missions - STRATCOM (CYBERCOM Activities) PE 0208059F - P-40A


 systems, and mission system backbone equipment. The procurement of Fit-Out equipment aligns with the MILCON schedule.

## 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 Item MDAP/MAIS Code(s): N/A

Communications and Information Technology PE 0308611F - P-40A


 capabilities and the joint enterprise.

F-22A Squadrons PE 0207138F - P-40A
F-22 Communications Infrastructure Equipment: FY17 funds will be used to procure communications infrastructure equipment in support of $F$-22 aircraft.
AF Network Ops and Command Comms PE 0207425F - P-40A
AF Network Operations (AFNETOPS): No FY17 funding requested.
Engineering and Installation - Air Force PE 0207436F - P-40A
AFSPC Lead Command Base Communications Infrastructure: No FY17 funding requested.
Information Technology Services Management - Tactical Air Forces PE 0208550F - P-40A
 wings, one reserve wing, one National Guard wing, two overseas groups, and several direct reporting units.

 these (flex base) locations. This capability directly supports COMPACAF's flexible basing strategy for the Pacific region.
 hardware to meet mission requirements of ACC's C 2 and mission support users.


 process to restructure basing of forces within the European Command (EUCOM) Area of Responsibility (AOR).

Long-Haul Communications - DCS PE 0303126F - P-40A
USAFE Technical Control Facility Program Equipment: No FY17 funding requested.
Theater Nuclear Weapon Storage \& Security System PE 0305155F - P-40A
 equipment. This equipment procurement supports the NATO nuclear deterrence mission in Europe.

Information Technology Services Management - Other PE 0305550F - P-40A

 public and classified network, and equipment required to react to emerging and emergency mission requirements in the National Capital Region (NCR).

## Appropriation / Budget Activity / Budget Sub Activity: <br> 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 $\quad$ Program Elements for Code B Items: N/A
Line Item MDAP/MAIS Code: N/A $\quad$ Item MDAP/MAIS Code(s): N/A
b. AFSPC Base Communications Infrastructure Equipment: No FY17 funding requested.

Information Technology Services Management - Mobility Air Forces PE 0408550F - P-40A

 mission requirements.

Information Technology Services Management - AFR PE 0505550F - P-40A
 In addition to funding AFR-wide programs. Funds also acquire equipment for life cycle support of critical base-level communications infrastructure requirements.

Information Technology Services Management - ANG PE 0508550F - P-40A
 interoperable infrastructure and architecture. This functionality ensures compatibility of ANG networks with the AF Enterprise.
nformation Technology Services Management - Logistics PE 0708550F - P-40A
 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.

Information Technology Services Management - Training PE 0808550F - P-40A



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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: MINUTEMAN Communications |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Unit Cost (\$ M) | Qty <br> (Each) | Total Cost (\$ M) | $\begin{aligned} & \text { Unit Cost } \\ & \quad(\$ M) \end{aligned}$ | $\underset{(\text { Each })}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty <br> (Each) | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Minuteman Communications Infrastructure | A |  | - | - | - | - | - | - | - | - | 6.060 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | 6.060 |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | - - | - | - | 6.060 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | $\cdot$ | - | - | $\cdot$ | - - | - | - | 6.060 | - | - | - | - | - | - | - | - | - |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Contingency Operations |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | rior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAPI } \\ & \text { MAIS } \\ & \text { code } \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $\qquad$ | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| USAFE-AFAFRICA Contingency Operations Infrastructure | A |  | - | - | - | - | - | - - | - | - | 2.499 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | 2.499 |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | $\cdot$ | - | - | - | - | - - | - | - | 2.499 | - | - | - | $\cdot$ | - | - | $\cdot$ | - | - |
| Total |  |  | - | - | - | - | - | - | - | - | 2.499 | - | - | - | - | - | - | $\cdot$ | - | - |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: Service Support to Other Core Missions STRATCOM (CYBERCOM Activities) |  |  |  |  |
|  |  |  |  | ior Yea |  |  | FY 2015 |  |  | Y 2016 |  |  | 2017 B |  |  | 2017 O |  |  | 2017 To |  |
| Item Number / Title [DODIC] | $\begin{array}{c\|c} \mathrm{ID} \\ \mathrm{CD} \end{array}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ |
| USCYBER COMMAND |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| USCYBERCOM Communications Infrastructure | A |  | - | - | - | - | - | - - | - | - | 3.439 | - | - | 41.817 | - | - | - | - | - | 41.817 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | 3.439 |  | - | 41.817 |  | - | - |  | - | 41.817 |
| Subtotal: USCYBER COMMAND |  |  | - | - | - | - | - | - - | - | - | 3.439 | - | - | 41.817 | - | - | - | - | - | 41.817 |
| Total |  |  | - | - | - | - | - | - | - | - | 3.439 | - | - | 41.817 | - | - | - | - | - | 41.817 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ ( ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Communications and Information <br> Technology |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | 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) |
| AFSPC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFSPC <br> Communications <br> Infrastructure <br> Equipment | A |  | - | - | - | - | - | - - | - | - | - | - | - | 5.812 | - | - | - | - | - | 5.812 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | 5.812 |  | - | - |  | - | 5.812 |
| Subtotal: AFSPC |  |  | - | - | - | - | - | - - | - | - | - | - | - | 5.812 | - | - | - | - | - | 5.812 |
| Total |  |  | - | - | - | - | - | - - | - | - | - | - | - | 5.812 | - | - | - | - | - | 5.812 |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: PE 0207138F - F-22A Squadrons |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | $\underset{(\$ M)}{\text { Unit Cost }}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> 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 (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F-22 Communications Infrastructure Equipment | A |  | - | - | - | - | - | 1.072 | - | - | 0.814 | - | . | 0.971 | - | - | - | - | - | 0.971 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.072 |  | - | 0.814 |  | - | 0.971 |  | - | - |  | - | 0.971 |
| Subtotal: Uncategorized |  |  | - | - | - | $\cdot$ | - | 1.072 | - | $\cdot$ | 0.814 | - | - | 0.971 | - | - | - | $\cdot$ | - | 0.971 |
| Total |  |  | - | - | - | - | - | 1.072 | - | - | 0.814 | - | - | 0.971 | - | - | - | - | - | 0.971 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: AF Network Ops and Command Comms |  |  |  |  |
|  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|l\|l\|}  & \text { MDAPI } \\ \hline \text { ID } & \text { MAIS } \\ \text { CD } & \text { Code } \\ \hline \end{array}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Air Force Network Operations (AFNETOPS) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFNETOPS Network Communications Equipment | A | - | - | - | - | - | 0.846 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | 0.846 |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Air Force Network Operations (AFNETOPS) |  | - | - | - | - | - | 0.846 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  | - | - | - | - | - | 0.846 | - | $\cdot$ | - | - | - | - | - | - | - | - | - | - |

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

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| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: <br> Engineering and Installation - Air Force |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{aligned} & \text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { (Each) } \end{aligned}$ | 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 | $\begin{aligned} & \text { Qty } \\ & (\text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| AFSPC E\&I |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFSPC Lead Command Base Communications Infrastructure | A |  | - | - | - | - | - | 36.884 | - | - | 15.574 | - | - | - | - | - | - | - |  | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 36.884 |  | - | 15.574 |  | - | - |  | - | - |  | - | - |
| Subtotal: AFSPC E\&I |  |  | $\cdot$ | - | - | - | - | 36.884 | - | $\cdot$ | 15.574 | - | $\cdot$ | - | $\cdot$ | - | - | $\cdot$ | - | - |
| Total |  |  | - |  | - | - | - | 36.884 | - | - | 15.574 | - | - | - | - | - | - | - | - | - |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Information Technology Services <br> Management - Tactical Air Forces |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Year |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| ITSM - Tactical AF's |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFSOC Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 0.650 | - | - | 0.573 | - | - | 0.665 | - | - | - | - | - | 0.665 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.650 |  | - | 0.573 |  | - | 0.665 |  | - | - |  | - | 0.665 |
| PACAF Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 2.994 | - | - | 0.690 | - | - | 0.634 | - | - | - | - | - | 0.634 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.994 |  | - | 0.690 |  | - | 0.634 |  | - | - |  | - | 0.634 |
| ACC Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 0.788 | - | - | 0.585 | - | - | 0.479 | - | - | - | - | - | 0.479 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.788 |  | - | 0.585 |  | - | 0.479 |  | - | - |  | - | 0.479 |
| USAFE-AFAFRICA Base Communications Infrastructure Equipment | A |  | - | - | - | - | . | 8.270 | - | - | 16.526 | - | - | 34.800 | . | - | - | - | - | 34.800 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 8.270 |  | - | 16.526 |  | - | 34.800 |  | - | - |  | - | 34.800 |
| Subtotal: ITSM - Tactical AF's |  |  | - | - | - | - | - | 12.702 | - | - | 18.374 | - | - | 36.578 | - | - | - | - | - | 36.578 |
| Total |  |  | - | - | - | - | - | 12.702 | - | - | 18.374 | - | - | 36.578 | - | - | - | - | - | 36.578 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: <br> Long-Haul Communications - DCS |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | 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) |
| USAFE Tech Control |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| USAFE Technical Control Facility Program Equipment | A |  | - | - | - | - | - | - 0.648 | - | - | 0.077 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.648 |  | - | 0.077 |  | - | - |  | - | - |  | - | - |
| Subtotal: USAFE Tech Control |  |  | - | - | - | - | - | - 0.648 | - | - | 0.077 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | $\cdot$ | 0.648 | - | - | 0.077 | - | - | - | - | - | - | - | - | - |

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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: <br> Theater Nuclear Weapon Storage \& Security System |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Theater Nuclear WS3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Theater Nuclear Weapon Storage and Security System (WS3) Communications Infrastructure Equipment | A |  | - | - | - | - | - | - - | - | - | 7.163 | - | - | 6.159 | - | - | - | - | - | 6.159 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 7.163 |  | - | 6.159 |  | - | - |  | - | 6.159 |
| Subtotal: Theater Nuclear WS3 |  |  | - | - | - | - | - | - | - | - | 7.163 | - | - | 6.159 | - | - | - | - | - | 6.159 |
| Total |  |  | - | . | - | - | - | - | - | - | 7.163 | - | - | 6.159 | - | - | - | - | - | 6.159 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |  |  |
|  | $\begin{array}{\|l\|l\|l\|l\|}  & \text { MDAPI } \\ \text { ID } & \text { MAIS } \\ \text { CD } & \text { Code } \\ \hline \end{array}$ | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  | 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 (\$ 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 <br> Cost <br>  <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 <br> Cost <br> (\$ M) |
| ITSM - Other |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFDW Base Communications Network Equipmen | A | - | - | - | - | - | 6.031 | - | - | 3.033 | - | - | 3.082 | - | - | - | - | - | 3.082 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | 6.031 |  | - | 3.033 |  | - | 3.082 |  | - | - |  | - | 3.082 |
| AFSPC Base Communications Infrastructure Equipment | A | - | - | - | - | - | 8.559 | - | - | 20.264 | - | - | - | - | - | - | - | - | . |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | 8.559 |  | - | 20.264 |  | - | - |  | - | - |  | - | - |
| Subtotal: ITSM - Other |  | - | - | - | - | - | 14.590 | - | - | 23.297 | - | - | 3.082 | - | - | - | - | - | 3.082 |
| Total |  | - | - | - | - | - | 14.590 | - | - | 23.297 | - | - | 3.082 | - | - | - | - | - | 3.082 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ Da |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
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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 - Mobility Air Forces |  |  |  |  |  |
|  |  |  |  | ior Yea |  |  | Y 201 |  |  | FY 2016 |  |  | 2017 B |  |  | 2017 O |  |  | 2017 T |  |
| Item Number / Title [DODIC] | $\begin{array}{\|c\|} \hline \text { ID } \\ \text { CD } \end{array}$ | $\begin{array}{\|l\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| ITSM - Mobility AF's |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFDW Base Communications Infrastructure Equipment | A |  | - | - | - | - |  | 0.853 | - | - | 0.638 | - | - | 0.738 | - | - | - | - |  | 0.738 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 0.853 |  | - | 0.638 |  | - | 0.738 |  | - | - |  | - | 0.738 |
| Subtotal: ITSM - Mobility AF's |  |  | - | - | - | - |  | 0.853 | - | - | 0.638 | - | - | 0.738 | - | - | - | - |  | 0.738 |
| Total |  |  | - | - | - | - |  | - 0.853 | - | - | 0.638 | - | - | 0.738 | - | - | - | - | - | 0.738 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
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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: <br> Information Technology Services Management - AFR |  |  |  |  |
|  |  |  |  | ior Yea |  |  | Y 2015 |  |  | F 2016 |  |  | 2017 B |  |  | 2017 O |  |  | 2017 To |  |
| 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| ITSM - AFR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFRC Base Communications Infrastructure Equipment | A |  | - | - | - | - |  | 0.319 | - | - | 0.282 | - | - | 0.327 | - | - | - | - | - | 0.327 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFR |  |  |  | - | - |  | - | 0.319 |  | - | 0.282 |  | - | 0.327 |  | - | - |  | - | 0.327 |
| Subtotal: ITSM - AFR |  |  | - | - | - | - | - | 0.319 | - | - | 0.282 | - | - | 0.327 | - | - | - | - | - | 0.327 |
| Total |  |  | - | - | - | - | - | 0.319 | - | - | 0.282 | - | - | 0.327 | - | - | - | - | - | 0.327 |

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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: <br> Information Technology Services Management - ANG |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|c\|} \hline \text { ID } \\ \text { CD } \end{array}$ | $\begin{array}{\|l\|} \text { MDAPII } \\ \text { MAIS } \\ \text { code } \end{array}$ | 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 <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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| ITSM - ANG |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ANG Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 23.129 | - | - | 1.993 | - | - | 10.781 | - | - | - | - | - | 10.781 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFNG |  |  |  | - | - |  | - | 23.129 |  | - | 1.993 |  | - | 10.781 |  | - | - |  | - | 10.781 |
| Subtotal: ITSM - ANG |  |  | - | - | - | - | - | 23.129 | - | - | 1.993 | - | - | 10.781 | - | - | - | - | - | 10.781 |
| Total |  |  | - | - | - | - | - | 23.129 | - | - | 1.993 | - | - | 10.781 | - | - | - | - | - | 10.781 |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 - Logistics |  |  |  |  |
|  |  |  |  | ior Yea |  |  | FY 2015 |  |  | Y 2016 |  |  | 2017 B |  |  | 2017 O |  |  | 2017 T |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l} \text { MDAP// } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total Cost <br> (\$ M) |
| ITSM - Logistics |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFMC Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 2.263 | - | - | 1.540 | - | - | 1.785 | - | - | - | - |  | 1.785 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.263 |  | - | 1.540 |  | - | 1.785 |  | - | - |  | - | 1.785 |
| Subtotal: ITSM - Logistics |  |  | - | - | - | - | - | 2.263 | - | - | 1.540 | - | - | 1.785 | - | - | - | - | - | 1.785 |
| Total |  |  | - | - | - | - | - | 2.263 | - | $\cdot$ | 1.540 | - | - | 1.785 | - | - | - | - | - | 1.785 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 - Training |  |  |  |  |  |
|  |  |  |  | ior Yea |  |  | FY 2015 |  |  | Y 2016 |  |  | 2017 B |  |  | 2017 O |  |  | 2017 T |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l} \text { MDAP// } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total Cost <br> (\$ M) |
| ITSM - Training |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AETC Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 2.453 | - | - | 0.660 | - | - | 1.165 | - | - | - | - |  | 1.165 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.453 |  | - | 0.660 |  | - | 1.165 |  | - | - |  | - | 1.165 |
| Subtotal: ITSM - Training |  |  | - | - | - | - | - | 2.453 | - | - | 0.660 | - | - | 1.165 | - | - | - | - | - | 1.165 |
| Total |  |  | - | - | - | - | - | 2.453 | - | $\cdot$ | 0.660 | - | - | 1.165 | - | - | - | - | - | 1.165 |

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## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: 0305111F, 0305909F, 0305912F |  |  |  |  | Other Related Program Elements: 0305111F, 0305909F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: None | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 165.460 | 60.826 | 78.650 | 65.700 | 3.800 | 69.500 | $67.684{ }^{\text {(a) }}$ | $55.319{ }^{\text {(b) }}$ | $55.949{ }^{\text {(c) }}$ | $56.953{ }^{\text {(d) }}$ | - | $610.341^{(\mathrm{e})}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 165.460 | 60.826 | 78.650 | 65.700 | 3.800 | 69.500 | 67.684 | 55.319 | 55.949 | 56.953 | - | 610.341 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 165.460 | 60.826 | 78.650 | 65.700 | 3.800 | 69.500 | 67.684 | 55.319 | 55.949 | 56.953 | - | 610.341 |
| (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:

Shared Early Warning (SEW) PE 0308699F - P-40A








 material solutions required for operational and cyber security continuity.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 |
|  | Total Obligation Authority | 58.956 | 78.650 | 65.700 | 3.800 | 69.500 | 67.684 | 55.319 | 55.949 | 56.953 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.360 | - | - | - | - | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.510 | - | - | - | - | - | - | - | - |
| Total: | Quantity | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 |

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| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | ot Service Ready): A | Program Elements for Code B Items: 0305111F, 0305909F, 0305912F |  |  |  |  | ther Related Program Elements: 0305111F, 0305909F |  |  |  |
| Line Item MDAP/MAIS | de: None $\quad$ Item | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Secondary Distribution | Total Obligation Authority | 60.826 | 78.650 | 65.700 | 3.800 | 69.500 | 67.684 | 55.319 | 55.949 | 56.953 |


| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | 838010 / Comm Elect Mods |
| Equip / BSA 8: Modifications |  |



| Line Item MDAP/MAIS Code: None |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibits Schedule |  |  |  | Prior Years Quantity / Total Cost (Each) I (\$ M) | FY 2015 <br> Quantity / Total Cost (Each) I (\$ M) | FY 2016 <br> Quantity / Total Cost <br> (Each) I (\$ M) | FY 2017 Base <br> Quantity / Total Cost (Each) I (\$ M) | FY 2017 OCO <br> Quantity / Total Cost (Each) I (\$ M) | FY 2017 Total <br> Quantity / Total Cost (Each) I (\$ M) |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ |  |  |  |  |  |  |
| P-40a | Atmospheric Early Warning System |  |  | - /114.167 | - 13.970 | - 1 | - 1 - | - 1 - | - 1 - |
| P-40a | Weather Service |  |  | - / 13.290 | - / 12.075 | - 18.492 | - 16.468 | - 1 | 16.468 |
| P-3a | 1 / Joint Environmental Toolkit (JET) Refresh (Capability Improvement) |  |  | - 1 - | - 1 - | - 1 | - 12.178 | - 1 | - 12.178 |
| P-40a | Air Traffic Control, Approach, and Landing System (ATCALS) |  |  | - 11.698 | - /1.099 | - 10.761 | - 11.402 | - 1 - | 11.402 |
| P-3a | 1 / ATCALS AN/GRN-29 Instrument Landing System (PE 0305114F) (Capability Improvement) |  |  | - 124.476 | - / 13.427 | - 13.219 | - 17.121 | - 1- | - 17.121 |
| P-3a | 2 / Deployable TACAN Retrofit/Refurbishment (Reliability \& Maintainability) |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 13.800 | - 13.800 |
| P-3a | $1 /$ National Airspace System (NAS) Mod 1 (Capability Improvement) |  |  | 1 | - 1 - | - 1 - | - 11.519 | - 1 | - 11.519 |
| P-40a | Ballistic Missile Early Warning System (BMEWS) |  |  | 1 - | - 1 - | - 16.850 | - 1 - | - 1 | - 1- |
| P-40a | Ballistic Missile Early Warning System (BMEWS) |  |  | - 10.000 | - 13.565 | - 10.250 | - 10.200 | - 1 | - 10.200 |
| P-3a | 1 / Mod HEMP (Reliability \& Maintainability) |  |  | - 10.000 | - 1 - | - 149.000 | - /18.943 | - 1 | - /18.943 |
| P-3a | $2 /$ BMEWS DP/SP Suite Replacement (Reliability \& Maintainability) |  |  | - /11.255 | - / 26.361 | - 19.858 | - /17.486 | -1 | - /17.486 |
| P-3a | $1 /$ PAVE PAWS Block 00 Update (Reliability \& Maintainability) |  |  | - 1 - | - 1 - | - 1 | - 14.690 | - 1 | - 14.690 |
| P-3a | $2 /$ P-3A PARCS Modification (formerly PARCS PARSS) (Reliability \& Maintainability) |  |  | - 10.000 | -1 | -1 | - 10.750 | - 1 - | - 10.750 |
| P-3a | 3/ P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End) (Reliability \& Maintainability) |  |  | - 10.000 | - 1 - | 1 | - 10.300 | -1 | - 10.300 |
| P-3a | 4 / PARCS Block 00 Update (Reliability \& Maintainability) |  |  | - 1 | - 1 | - 1 | - 14.240 | - 1 | - 14.240 |
| P-40a | Shared Early Warning (SEW) |  |  | - 10.574 | - 10.329 | - 10.220 | - 10.403 | - 1 | - 10.403 |
| P-40 | Total Gross/Weapon System Cost |  |  | - / 165.460 | - $/ 60.826$ | - 178.650 | - 165.700 | - 13.800 | - 169.500 |
|  | Exhibits Schedule |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1118.137 |
| P-40a | Weather Service |  |  | - 18.032 | - 17.014 | - 17.138 | - 17.280 | - 1 - | - 169.789 |
| P-3a | 1 / Joint Environmental Toolkit (JET) Refresh (Capability Improvement) |  |  | - 12.026 | - 11.823 | - 11.856 | - 11.875 | - 1 - | - 19.758 |
| P-40a | Air Traffic Control, Approach, and Landing System (ATCALS) |  |  | - 11.345 | - 11.209 | - 11.229 | - 11.250 | - 1 - | - 19.993 |
| P-3a | 1 / ATCALS AN/GRN-29 Instrument Landing System (PE 0305114F) (Capability Improvement) |  |  | - 13.996 | - 1 - | - 1 - | - 1 - | - 1 - | - / 52.239 |
| P-3a | 2 / Deployable TACAN Retrofit/Refurbishment (Reliability \& Maintainability) |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 13.800 |
| P-3a | $1 /$ National Airspace System (NAS) Mod 1 (Capability Improvement) |  |  | - 17.435 | - 13.861 | - 15.814 | - 15.918 | - 1 - | - 124.547 |
| P-40a | Ballistic Missile Early Warning System (BMEWS) |  |  | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - |
| P-40a | Ballistic Missile Early Warning System (BMEWS) |  |  | - 125.436 | - 122.859 | - 123.262 | - / 23.681 | - 1 - | - / 99.253 |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
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

Equip / BSA 8: Modifications

| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: 0305111F, 0305909F,$0305912 \mathrm{~F}$ |  |  |  |  | Other Related Program Elements: 0305111F, 0305909F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: None |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | $1 / \mathrm{Mod}$ HEMP (Reliability \& Maintainability) |  |  | - 1 - | - 1 - | - 1 | - 1 - | - 1 - | - 167.943 |
| P-3a | $2 /$ BMEWS DP/SP Suite Replacement (Reliability \& Maintainability) |  |  | 1 | 1 | 1 | - 1 | - 1 | - 164.960 |
| P-3a | 1 / PAVE PAWS Block 00 Update (Reliability \& Maintainability) |  |  | - 10.600 | 1 | - 1 - | 1 | 1 | - 15.290 |
| P-3a | 2 / P-3A PARCS Modification (formerly PARCS PARSS) (Reliability \& Maintainability) |  |  | - 18.763 | - 19.102 | - 18.148 | - 18.294 | -1 | - / 35.057 |
| P-3a | 3 / P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End) (Reliability \& Maintainability) |  |  | - 18.913 | - 19.103 | - 18.148 | - 18.295 | - 1 - | - / 34.759 |
| P-3a | 4 I PARCS Block 00 Update (Reliability \& Maintainability) |  |  | - 10.750 | 1 - | - 1 - | 1 | 1 | - 14.990 |
| P-40a | Shared Early Warning (SEW) |  |  | 1 - | - 1 - | - 1 - | 1 - | - 1 | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  | - 167.684 | - 155.319 | - 155.949 | - 156.953 | - 1- | - 1610.341 |

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

## Justification:

This program, PE 0305114F, P-3A Mod ATCALS, Deployable TACAN Retrofit/Refurbishment, is a new start.
This program, PE 0305137F Mods, P-3A NAS Mod 1, National Airspace System (NAS) Mod 1, is a new start.
Where applicable, justification for individual modifications is provided in the P-3A exhibits.
 follows:
${ }^{(a)}$ FY 2018 Cost Delta: 0.388 million
${ }^{(b)}$ FY 2019 Cost Delta: 0.348 million
${ }^{(c)}$ FY 2020 Cost Delta: 0.354 million
${ }^{(d)}$ FY 2021 Cost Delta: 0.360 million
${ }^{(e)}$ FY Total Cost Delta: 9.826 million

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 838010 / Comm Elect Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: Atmospheric Early Warning System |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <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) |
| SC3I AEWS - FPS-117 EPRP / SC3I AEWS -FPS-117 EPRP |  |  | - | - | 114.167 | - | - | 3.970 | - | - | - | - | - | - | - |  | - | - |  | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 3.970 |  | - | - |  | - | - |  | - | - |  |  | - |
| Total |  |  | - | - | 114.167 | - | - | 3.970 | - | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{array}{\|c} \text { MDAPII } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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 (\$ 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 | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| SC3I AEWS - FPS-117 EPRP / SC3I AEWS -FPS-117 EPRP |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - |  | 118.137 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 118.137 |

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 |
| :--- | :--- | :--- |
| SC3I AEWS - FPS-117 EPRP / SC3I <br> AEWS - FPS-117 EPRP | AN/FPS-117 | Service Life Extension |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 838010 / Comm Elect Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: Weather Service |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| 00-001 / Next Generation Radar (NEXRAD) WSR-88D Upgrades |  |  | - | - | 1.007 | - | - | - | - | - | 0.017 | - | - | 0.017 | - | - | - | - | - | 0.017 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 0.017 |  | - | 0.017 |  | - | - |  | - | 0.017 |
| 07-001 / Numerical Weather Modeling |  |  | - | - | 3.526 | - | - | - 4.549 | - | - | 1.320 | - | - | 1.000 | - | - | - | - | - | 1.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - $\quad 4.549$ |  | - | 1.320 |  | - | 1.000 |  | - | - |  | - | 1.000 |
| 08-001 / AN/FMQ-7 <br> Solar Optical Observing Network (SOON) |  |  | - | - | - | - | - | - | - | - | - | - | - | 1.000 | - | - | - | - | - | 1.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | 1.000 |  | - | - |  | - | 1.000 |
| 09-001 / AN/UMQ-13 MARK IV-B |  |  | - | - | 3.756 | - | - | - 3.000 | - | - | - | - | - | 1.000 | - | - | - | - | - | 1.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - $\quad 3.000$ |  | - | - |  | - | 1.000 |  | - | - |  | - | 1.000 |
| 11-003 / AN/TMQ-53 Tactical Meteorological Observing System (TMOS) |  |  | - | - | 0.822 | - | - | - | - | - | . | - | - | - | - | - | - | - | . | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| 13-009 / WSR-88D Next Generation Radar (NEXRAD) Service Life Extension |  |  | - | - | - | - | - | - 2.073 | - | - | 2.369 | - | - | 1.932 | - | - | - | - | - | 1.932 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - $\quad 2.073$ |  | - | 2.369 |  | - | 1.932 |  | - | - |  | - | 1.932 |
| 14-001 / Next Generation Radar (NEXRAD) WSR-88D IT Refresh |  |  | - | - | - | - | - | - | - | - | 0.366 | - | - | 0.172 | - | - | - | - | - | 0.172 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 0.366 |  | - | 0.172 |  | - | - |  | - | 0.172 |
| 14-007 / Radio Solar Telescope Network Service Life Extension Program (RSTN SLEP) |  |  | - | - | - | - | - | - | - | - | 3.100 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - - |  | - | 3.100 |  | - | - |  | - | - |  | - | - |
|  |  |  | - | - | - | - | - | - | - | - | - | - | - | 0.347 | - | - | - | - | - | 0.347 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 838010 / Comm Elect Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: Weather Service |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | Qty <br> (Each) | Total Cost (\$ M) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | 0.347 |  | - | - |  | - | 0.347 |
| 98-001 / Weather Data Analysis |  |  | - | - | 3.679 | - | - | 2.453 | - | - | 1.320 | - | - | 1.000 | - | - | - | - | - | 1.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.453 |  | - | 1.320 |  | - | 1.000 |  | - | - |  | - | 1.000 |
| P-3A Low Cost Modifications / P-3A Low Cost Modifications |  |  | - | - | 0.500 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 13.290 | - | - | 12.075 | - | - | 8.492 | - | - | 6.468 | - | - | - | - | - | 6.468 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | Qty <br> (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \\ & \hline \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 00-001 / Next Generation Radar (NEXRAD) WSR-88D Upgrades |  |  | - | - | 0.017 | - | - | 0.017 | - | - | 0.017 | - | - | 0.017 | - | - | - | - | - | 1.109 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 0.017 |  | - | 0.017 |  | - | 0.017 |  | - | 0.017 |  | - | - |  | - | - |
| 07-001 / Numerical Weather Modeling |  |  | - | - | 1.000 | - | - | 1.036 | - | - | 1.054 | - | - | 1.135 | - | - | - | - | - | 14.620 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 1.000 |  | - | 1.036 |  | - | 1.054 |  | - | 1.135 |  | - | - |  | - | - |
| 08-001 / AN/FMQ-7 Solar Optical Observing Network (SOON) |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & 09-001 \text { / AN/UMQ-13 } \\ & \text { MARK IV-B } \end{aligned}$ |  |  | - | - | 1.500 | - | - | 1.500 | - | - | 1.527 | - | - | 1.542 | - | - | - | - | - | 13.825 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 1.500 |  | - | 1.500 |  | - | 1.527 |  | - | 1.542 |  | - | - |  | - | - |
| 11-003 / AN/TMQ-53 Tactical Meteorological Observing System (TMOS) |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.822 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| 13-009 / WSR-88D Next Generation Radar (NEXRAD) Service Life Extension |  |  | - | - | 3.371 | - | - | 1.784 | - | - | 1.654 | - | - | 1.862 | - | - | - | - | - | 15.045 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: Weather Service |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS Code | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ 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) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 3.371 |  | - | 1.784 |  | - | 1.654 |  | - | 1.862 |  | - | - |  | - | - |
| 14-001 / Next Generation Radar (NEXRAD) WSR-88D IT Refresh |  |  | - | - | 0.344 | - | - | - 0.218 | - | - | 0.385 | - | - | 0.127 | - | - | - | - | - | 1.612 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 0.344 |  | - | 0.218 |  | - | 0.385 |  | - | 0.127 |  | - | - |  | - | - |
| 14-007 / Radio Solar Telescope Network Service Life Extension Program (RSTN SLEP) |  |  | - | - | 0.800 | - |  | - - | - | - | - | - | - | - | - | - | - | - | - | 3.900 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 0.800 |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| $\begin{array}{\|l\|} \hline 16-002 ~ / ~ A N / F M Q-23 ~ \\ \text { Refresh } \\ \hline \end{array}$ |  |  | - | - | - | - | - | - 1.423 | - | - | 1.447 | - | - | 1.462 | - | - | - | - | - | 4.679 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - 1.423 |  | - | 1.447 |  | - | 1.462 |  | - | - |  | - | - |
| 98-001 / Weather Data Analysis |  |  | - | - | 1.000 | - | - | - 1.036 | - | - | 1.054 | - | - | 1.135 | - | - | - | - | - | 12.677 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 1.000 |  | - | - 1.036 |  | - | 1.054 |  | - | 1.135 |  | - | - |  | - | - |
| $\begin{aligned} & \text { P-3A Low Cost } \\ & \text { Modifications / P-3A Low } \\ & \text { Cost Modifications } \end{aligned}$ |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.500 |
| Total |  |  | - | - | 8.032 | - |  | - 7.014 | - | - | 7.138 | - | - | 7.280 | - | - | - | - | - | 69.789 |

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 |  |
| :--- | :--- | :--- |
| 00-001 / Next Generation Radar <br> (NEXRAD) WSR-88D Upgrades | WSR-88D | Modification Type |
| $07-001$ / Numerical Weather Modeling | Weather Data Analysis | Capability Improvement |
| 08-001 / AN/FMQ-7 Solar Optical <br> Observing Network (SOON) | AN/FMQ-7 | Capability Improvement |
| 09-001 / AN/UMQ-13 MARK IV-B | AN/UMQ-13 | Capability Improvement |
| $11-003$ / AN/TMQ-53 Tactical <br> Meteorological Observing System <br> (TMOS) | AN/TMQ-53 | Capability Improvement |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  | Date: February 2016 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budge 3080F / 03 / 8 | Activity / Budget Sub Activity: | P-1 Line Item Number / Title: 838010 / Comm Elect Mods | Aggregated Modification Items Title: Weather Service |
| Item Number / Titte | Models of Systems Affected | Modification Type |  |
| 13-009 / WSR-88D Next Generation Radar (NEXRAD) Service Life Extension | WSR-88D | Service Life Extension |  |
| 14-001 / Next Generation Radar (NEXRAD) WSR-88D IT Refresh | WSR-88D | Capability Improvement |  |
| 14-007 / Radio Solar Telescope Network Service Life Extension Program (RSTN SLEP) | RSTN, AN/FRR-95 (RIMS) \& A/F24U-1 (SRS) | Capability Improvement |  |
| 16-002 / AN/FMQ-23 Refresh | AN/FMQ-23 | Reliability \& Maintainability |  |
| 98-001 / Weather Data Analysis | Weather Data Analysis | Capability Improvement |  |
| P-3A Low Cost Modifications / P-3A Low Cost Modifications | Weather Service | Capability Improvement |  |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 <br> Modification Number / Title: <br> 1 / Joint Environmental Toolkit (JET) Refresh |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activit 3080F / 03 / 8 | Budget | ub Activit | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) |  | - | - | 2.178 | - | 2.178 | 2.026 | 1.823 | 1.856 | 1.875 | - | 9.758 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | - | 2.178 | - | 2.178 | 2.026 | 1.823 | 1.856 | 1.875 | - | 9.758 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 2.178 | - | 2.178 | 2.026 | 1.823 | 1.856 | 1.875 | - | 9.758 |
| (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:

Joint Environmental Toolkit (JET)--Provides a standard AF Weather forecasters' toolkit to ingest weather data and deliver timely, tailorable, precise weather impacts to the warfighter.
Milestone/Development Status

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 2.178 | - | 2.178 | 2.026 | 1.823 | 1.856 | 1.875 |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 2.178 | - | 2.178 | 2.026 | 1.823 | 1.856 | 1.875 |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  | Modification Number / Title: 1 / Joint Environmental Toolkit (JET) Refresh |  |  |  |
| Models of Systems Affected: Joint Environmental Tool Kit |  | Modification Type: Capability Improvement |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
|  | Prior Years | FY 2015 | FY 2016 | $\begin{aligned} & \text { FY } 2017 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\text { FY } 2017$ <br> Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Financial Plan | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: JET Refresh |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| JET Refresh:EQUIPMENT Group B (Active) | - 1- | - 1- | - 1- | 1/2.178 | - 1 | 1/2.178 | 1/2.026 | 1/1.823 | 1/1.856 | 1/1.875 | 1 | 5/9.758 |
| Subtotal: Recurring | 1 | 1 | - / - | - 12.178 | - $1-$ | - 12.178 | - 12.026 | - 11.823 | - 11.856 | - /1.875 | 1 - | 19.758 |
| Subtotal: JET Refresh | - 1 - | - 1 - | 1. | - 12.178 | 1. | - 12.178 | - 12.026 | - 11.823 | - /1.856 | - /1.875 | - 1 - | - 19.758 |
| Subtotal: Procurement, All Modification Items | - / - | - / - | - / - | - 12.178 | - $1-$ | - 12.178 | - 12.026 | - 11.823 | - 11.856 | - 11.875 | - / - | - 19.758 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: JET Refresh | - 1 - | - 1 - | - 1 - | 1/ - | 1. | 1/ - | 1/ - | 1/ - | 1/ - | 1/ - | 1 | 51. |
| Subtotal: Installation | - 1. | - 1- | - 1. | 1/- | - 1. | 1/ - | 1/ - | 1/ - | 1/ - | 1/ - | - 1. | 5/. |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | $\cdot$ | - | - | 2.178 | - | 2.178 | 2.026 | 1.823 | 1.856 | 1.875 | - | 9.758 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: Air Traffic Control, Approach, and Landing System (ATCALS) |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title |  |  | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| P-3A Low Cost Mods / ATCALS Low Cost Mods (PE 0305114F) |  |  | - | - | 1.698 | - | - | 1.099 | - | - | 0.761 | - | - | 1.402 | - | - |  | - |  | 1.402 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.099 |  |  | 0.761 |  |  | 1.402 |  |  | - |  |  | 1.402 |
| Total |  |  | - | - | 1.698 | - | - | 1.099 | - | - | 0.761 | - | - | 1.402 | - | - |  | - |  | 1.402 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| P-3A Low Cost Mods / ATCALS Low Cost Mods (PE 0305114F) |  |  | - | - | 1.345 | - | - | 1.209 | - | - | 1.229 | - | - | 1.250 | - | - | - | - | - | 9.993 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 1.345 |  | - | 1.209 |  | - | 1.229 |  | - | 1.250 |  | - | - |  | - | - |
| Total |  |  | - | - | 1.345 | - | - | 1.209 | - | - | 1.229 | - | - | 1.250 | - | - | - | - | - | 9.993 |

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 |
| :--- | :--- | :--- |
| P-3A Low Cost Mods / ATCALS Low <br> Cost Mods (PE 0305114F) | ATCALS | Service Life Extension |

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 <br> Modification Number / Title: <br> 1 / ATCALS AN/GRN-29 Instrument <br> Landing System (PE 0305114F) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 24.476 | 13.427 | 3.219 | 7.121 | - | 7.121 | 3.996 | - | - | - | - | 52.239 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 24.476 | 13.427 | 3.219 | 7.121 | - | 7.121 | 3.996 | - | - | - | - | 52.239 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 24.476 | 13.427 | 3.219 | 7.121 | - | 7.121 | 3.996 | - | - | - | - | 52.239 |
| (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:




 interim contractor support and stand-up of an organic depot.

FY17 funds will procure/install 17 modification kits (17 AD/0 ANG/0 AFR).
The FY 2017 funding request was reduced by $\$ 4.259$ million to account for the availability of prior year execution balances.
Milestone/Development Status
In full rate production.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 11.557 | 3.219 | 7.121 | - | 7.121 | 3.996 | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.360 | - | - | - | - | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.510 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 13.427 | 3.219 | 7.121 | - | 7.121 | 3.996 | - | - | - |


| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  | Modification Number / Title: <br> 1 / ATCALS AN/GRN-29 Instrument <br> Landing System (PE 0305114F) |  |  |  |
| Models of Systems Affected: GRN-29 | Modification Type: Capability Improvement $\quad$ Related RDT\& |  |  |  |  |  |  |  | \&E PEs: |  |  |  |
|  | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Financial Plan | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: GRN-29 ILS |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| GRN-29 ILS:EQUIPMENT Group B (Active) | $98 / 10.093$ | 4/0.428 | 15/1.650 | $17 / 1.904$ | - 1 - | $17 / 1.904$ | - 1. | - 1. | - 1 - | - 1 - | 1 - | $134 / 14.075$ |
| GRN-29 ILS:EQUIPMENT Group B (Guard) | 210.210 | 8/0.856 | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1- | - 1- | - 1- | - 1- | $10 / 1.066$ |
| GRN-29 ILS:EQUIPMENT Group B (Reserve) | 6/0.630 | 3/0.321 | 1. | - 1 - | 1 - | 1. | 1 - | 1 - | 1 - | - 1- | - 1- | 9/0.951 |
| Subtotal: Recurring | - /10.933 | - 11.605 | - 11.650 | - 11.904 | 1 | - 11.904 | -1- | - 1- | 1 - | - 1 | - 1 - | - /16.092 |
| Subtotal: GRN-29 ILS | - /10.933 | - 11.605 | - 11.650 | - 11.904 | 1 | - 11.904 | - $1-$ | 1 | 1 | - / - | - 1 - | - /16.092 |
| Subtotal: Procurement, All Modification Items | - /10.933 | - /1.605 | 11.650 | - 11.904 | 1. | - /1.904 | - 1 - | - / - | - / - | - 1 - | 1. | - /16.092 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 11.668 | - 1 - | - 1 - | - 1. | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 11.668 |
| OTHER GOVT | - 12.434 | - 13.711 | -1- | - 12.467 | - 1- | - 12.467 | - 11.688 | 1 - | 1 - | $1-$ | 1 - | - 110.300 |
| Type 1 Training | - 10.461 | - 1- | - 1 - | - 1 - | 1. | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | -1- | - 10.461 |
| ICS-Material | - 10.282 | - 10.510 | - 10.200 | - 10.225 | - 1 - | - 10.225 | - 10.230 | - 1 - | - 1 - | - 1 - | - 1- | - 11.447 |
| Change Orders | - 1 - | - 12.297 | 1. | - 10.338 | $1-$ | - 10.338 | 1. | - 1- | - 1- | - 1- | -1- | - 12.635 |
| PMA - Contractor Services | - 10.510 | - 10.547 | - 10.122 | - 10.245 | - 1 - | - 10.245 | - 10.220 | - 1- | - 1 - | - 1 - | - 1 - | - 11.644 |
| SUPPORT-EQUIP | - 11.650 | - 13.618 | - 10.108 | - 10.656 | 1 | - 10.656 | - 11.858 | 1. | - 1- | 1. | 1 | - 17.890 |
| PMA - Other Gov't Costs | - 10.395 | - 10.194 | - 10.196 | - 10.198 | - $1-$ | - 10.198 | - 1 - | 1. | 1 - | - 1 - | -1- | - 10.983 |
| Subtotal: Support | - 17.400 | - /10.877 | 10.626 | /4.129 | 1. | - /4.129 | - /3.996 | - 1- | 1 - | 1. | 1 - | - 127.028 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: GRN-29 ILS | $106 / 6.143$ | 15/0.945 | 15/0.943 | $17 / 1.088$ | $1-$ | $17 / 1.088$ | 1 - | - 1- | 1 - | 1. | 1 | 153/9.119 |
| Subtotal: Installation | 106/6.143 | 15/0.945 | 15/0.943 | 17/1.088 | - 1 - | 17/1.088 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 153/9.119 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 24.476 | 13.427 | 3.219 | 7.121 | - | 7.121 | 3.996 | - | - | - | - | 52.239 |

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 <br> Modification Number / Title: <br> 2 / Deployable TACAN Retrofit/ Refurbishment |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activit 3080F / 03 / 8 | udget | ub Activit | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | - | 3.800 | 3.800 | - | - | - | - | - | 3.800 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | - | - | 3.800 | 3.800 | - | - | - | - | - | 3.800 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | $\checkmark$ | 3.800 | 3.800 | - | - | - | - | - | 3.800 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This program, PE 0305114F, P-3A Mod ATCALS, Deployable TACAN Retrofit/Refurbishment, is a new start.




FY17 OCO funds modify/refurbish 3 Deployable TACANs (3 AD/0 ANG/0 AFR)
Milestone/Development Status
TRN-48 Deployable TACAN modification/refurbishment kit proof complete. Three system previously upgraded with prior year funds.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | 3.800 | 3.800 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | 3.800 | 3.800 | - | - | - | - |


| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  | Modification Number / Title: 2 I Deployable TACAN Retrofit/ Refurbishment |  |  |  |
| Models of Systems Affected: TRN-48 | Modification Type: Reliability \& Maintainability $\quad$ Related RDT\& |  |  |  |  |  |  |  | \&E PEs: |  |  |  |
|  | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
|  | $\begin{gathered} \text { Qty (Each) । } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{c\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each)। } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{array}{c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: AN/TRN-48 TACAN |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| AN/TRN-48 TACAN:EQUIPMENT Group B (Active) | - 1- | - 1- | - 1- | - 1- | 3/3.700 | 3/3.700 | - 1- | - 1- | - 1- | - 1- | - 1 - | $3 / 3.700$ |
| AN/TRN-48 TACAN:EQUIPMENT Group B (Guard) | -1- | - 1- | -1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1- |
| AN/TRN-48 TACAN:EQUIPMENT Group B (Reserve) | - 1 - | - 1- | - 1- | - 1- | - 1 - | - 1- | - 1- | - 1 - | - 1 - | - 1- | - 1 - | - 1- |
| Subtotal: Recurring | - 1 - | - 1- | - 1- | - 1- | - 13.700 | - 13.700 | - 1 - | - 1 - | - 1 | - 1 - | - / - | - 13.700 |
| Subtotal: AN/TRN-48 TACAN | 1 - | -1 | - 1 | - 1- | - 13.700 | - 13.700 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 13.700 |
| Subtotal: Procurement, All Modification Items | - 1 - | - / - | - 1 - | - 1 - | - 13.700 | - 13.700 | - 1- | 1 | - 1 - | - 1. | - 1. | - 13.700 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 1 - | - 1- | - 1- | - 1 - | - 1 - | - $1-$ | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - $1-$ |
| A\&AS | - 1 - | - 1 | - 1 | $1-$ | - 10.100 | - 10.100 | - 1- | - 1- | $1-$ | 1 | - 1 | - 10.100 |
| Subtotal: Support | - / - | - / - | - 1 - | - $/$ - | - 10.100 | - 10.100 | 1 | 1 | - $/$ - | - $/$ - | - 1 - | 10.100 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: AN/TRN-48 TACAN | - 1- | - 1 - | - 1 - | 31. | - 1 - | 31. | - 1- | - 1 - | - 1 - | - 1 - | - $1-$ | 31. |
| Subtotal: Installation | $1 \cdot$ | 1 | 1 | 3/- | 1. | 3/- | - 1- | - 1- | - 1- | - 1 - | - 1- | $3 /$ - |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | $\cdot$ | $\cdot$ | $\cdot$ | - | 3.800 | 3.800 | - | $\cdot$ | $\cdot$ | - | - | 3.800 |

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| Exhibit P-3a, Individual Modi | n: PB | 7 Air F |  |  |  |  |  |  | Date: F | bruary 201 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity 3080F / 03 / 8 | Budget | ub Activit |  | Line Item 10 / Comm | $\begin{aligned} & \text { Number / } \\ & \text { / Elect Mos } \end{aligned}$ |  |  |  | Modific 1 / Natio 1 | ation Numb nal Airspac | er / Title: System ( | AS) Mod |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 <br> Base | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 1.519 | - | 1.519 | 7.435 | 3.861 | 5.814 | 5.918 | - | 24.547 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Milions) | - | - | - | 1.519 | - | 1.519 | 7.435 | 3.861 | 5.814 | 5.918 | - | 24.547 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 1.519 | - | 1.519 | 7.435 | 3.861 | 5.814 | 5.918 | - | 24.547 |
| (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 0305137F Mods, P-3A NAS Mod 1, National Airspace System (NAS) Mod 1, is a new start.
The DAAS System, also known as the Standard Terminal Automation Replacement System (STARS) was fielded in three different hardware configurations and three distinct software builds. This upgrade, establishes a standard system configuration and ensures continued system supportability and availability by upgrading current DAAS/STARS Gen 1 and Gen 2 locations to the DAAS/STARS Enhanced Local Integrated Tower Equipment (ELITE) or Gen 4 (G4) configuration, enabling them to operate with latest FAA/DoD software. Current DAAS/STARS Gen 1 and Gen 2 processors and associated network equipment have gone end of life. Configuration consolidation also reduces multiple, simultaneous efforts associated with system software development and test while reducing cost outlays.

FY17 funds will procure 4 upgrade kits (4 AD/0 ANG/0 AFR).
Milestone/Development Status
Modification kits have already been kit proofed by FAA and are available off FAA contract.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { Total } \end{aligned}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 1.519 | - | 1.519 | 7.435 | 3.861 | 5.814 | 5.918 |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - |  |
|  | Total Obligation Authority | - | - | 1.519 | - | 1.519 | 7.435 | 3.861 | 5.814 | 5.918 |

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## Footnotes:

${ }^{(1)}$ Unit cost in FY17 is lower than unit cost in FY18 through FY21 as FY17 kits are for 4 Enhanced Local Integrated Tower Equipment (ELITE) mod kits which is a smaller system than the Gen 4 system kits being procured in FY18 to FY21.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  | Aggregated Items Title: <br> Ballistic Missile Early Warning System (BMEWS) |  |  |  |  |
|  |  MDAP/ <br> ID MAIS <br> CD  <br> code  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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) | 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) |
| Radar |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Radar Reliability | A |  | - | - | - | - | - | - | - | - | 6.850 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 6.850 |  | - | - |  | - | - |  | - | - |
| Subtotal: Radar |  |  | - | - | - | - | - | - | - | - | 6.850 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | - | - | - | - | 6.850 | - | - | - | - | - | - | - | - | - |

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 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: Ballistic Missile Early Warning System (BMEWS) |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| COBRA DANE Radar <br> Mod / COBRA DANE <br> Radar Mod |  |  | - | - | - | - |  | - | - | - | 0.150 | - | - | 0.100 | - | - | - | - | - | 0.100 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - - |  | - | 0.150 |  | - | 0.100 |  | - | - |  | - | 0.100 |
| P-3A BMEWS <br> Modification / BMEWS <br> Modification |  |  | - | - | - | - |  | - 3.565 | - | - | 0.100 | - | - | 0.100 | - | - | - | - | - | 0.100 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 3.565 |  | - | 0.100 |  | - | 0.100 |  | - | - |  | - | 0.100 |
| Total |  |  | - | - | 0.000 | - | - | 3.565 | - | - | 0.250 | - | - | 0.200 | - | - | - | - | - | 0.200 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | 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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \end{gathered}$ | $\underset{\text { (Each) }}{\text { Qty }}$ | 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) |
| COBRA DANE Radar Mod / COBRA DANE Radar Mod |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.250 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | - | - |  | - | - |  | - | - |
| P-3A BMEWS <br> Modification / BMEWS Modification |  |  | - | - | 25.436 | - | - | - 22.859 | - | - | 23.262 | - | - | 23.681 | - | - | - | - | - | 99.003 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 25.436 |  | - | - 22.859 |  | - | 23.262 |  | - | 23.681 |  | - | - |  | - | - |
| Total |  |  | - | $\cdot$ | 25.436 | - | - | - 22.859 | - | - | 23.262 | - | - | 23.681 | - | $\cdot$ | - | $\cdot$ | - | 99.253 |

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 |  |
| :--- | :--- | :--- |
| COBRA DANE Radar Mod / COBRA <br> DANE Radar Mod | NA | Reliability \& Maintainability |
| P-3A BMEWS Modification / BMEWS <br> Modification | NA | Reliability \& Maintainability |

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  | Modification Number / Title: 1 / Mod HEMP |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 <br> Base | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | - | 49.000 | 18.943 | - | 18.943 | - | - | - | - | - | 67.943 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | - | 49.000 | 18.943 | - | 18.943 | - | - | - | - | - | 67.943 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | - | 49.000 | 18.943 | - | 18.943 | - | - | - | - | - | 67.943 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Milions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

High Altitude Electromagnetic Pulse (HEMP) Protection Program: HEMP Protection modification implements OSD, CJCS \& USSTRATCOM HEMP survivability requirements for all Ground Based Radars (GBRs). GBR upgrades are advocated by the USSTRATCOM/CC and downward directed and funded by the DepSecDef. Upgrades for various GBR complexes have been performed and are planned to be completed as part of HEMP modernization program for critical Air Force Space Command sites. This program will install and upgrade HEMP protection of main radar, power plant emergency power, and SATCOM antennas Once HEMP protection is installed and upgraded, there will be Verification tests conducted IAW MIL-STD-188-125 as the basis-of certification by USSTRATCOM. Once Certification is granted, the annual Integrated Nuclear Survivability and Endurability Report (INSER) will be updated to show survivability status and reported to the JCS and Congress.

Milestone/Development Status
FY17 High-Altitude Electromagnetic Pulse (HEMP) Protection Program

| Secondary Distribution |  | FY 2015 | FY 2016 | FY 2017 Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 49.000 | 18.943 | - | 18.943 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 49.000 | 18.943 | - | 18.943 | - | - | - | - |

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Exhibit P-3a, Individual Modification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F/03/8
## Date: February 2016

## Modification Number / Title:

2 / BMEWS DP/SP Suite Replacement

| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 11.255 | 26.361 | 9.858 | 17.486 | - | 17.486 | - | - | - | - | - | 64.960 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 11.255 | 26.361 | 9.858 | 17.486 | - | 17.486 | - | - | - | - | - | 64.960 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 11.255 | 26.361 | 9.858 | 17.486 | - | 17.486 | - | - | - | - | - | 64.960 |
| (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:






 Additionally there is a fourth site for testing (System Program Agency) located in the Centralized Integration Support Facility (CISF) at Peterson AFB, CO. This effort is funded in PE0305909F.



 sustainment equipment (with any required initial spares) to include, but not limited to, Display and Signal Processors, associated processors, and display hardware.

Milestone/Development Status

| N/A |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 26.361 | 9.858 | 17.486 | - | 17.486 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 26.361 | 9.858 | 17.486 | - | 17.486 | - | - | - | - |

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Exhibit P-3a, Individual Modification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F/03/8
## Date: February 2016

## Modification Number / Title:

1 / PAVE PAWS Block 00 Update

| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | FY 2017 Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 4.690 | - | 4.690 | 0.600 | - | - | - | - | 5.290 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | - | 4.690 | - | 4.690 | 0.600 | - | - | - | - | 5.290 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 4.690 | - | 4.690 | 0.600 | - | - | - | - | 5.290 |
| (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:










 beam steering/shaping units, test sets, and analysis hardware.

Milestone/Development Status
NA

| Secondary Distribution |  | FY 2015 | FY 2016 | FY 2017 Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 4.690 | - | 4.690 | 0.600 | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 4.690 | - | 4.690 | 0.600 | - | - | - |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  | Modification Number / Title: 1 / PAVE PAWS Block 00 Update |  |  |  |
| Models of Systems Affected: NA |  | Modification Type: Reliability \& Maintainability |  |  |  |  | Related RDT\&E PEs: 0305909F |  |  |  |  |  |
|  | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{array}{\|c\|} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: PAVE PAWS |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| PAVE PAWS:EQUIPMENT Group B (Active) | - 1 - | - 1 - | - 1- | 1/4.590 | 1 | 1/4.590 | - 1 | - 1- | - 1- | - 1- | - 1 | 1/4.590 |
| Subtotal: Recurring | - 1 - | - 1 - | - 1 - | - 14.590 | - 1 - | - 14.590 | - 1 | - 1 | - 1 | - / - | - 1 - | - 14.590 |
| Subtotal: PAVE PAWS | - / - | - / - | - / - | - 14.590 | - / - | - 14.590 | - / - | - / - | - / - | - / - | - 1 | - 14.590 |
| Subtotal: Procurement, All Modification Items | - 1 | 1 | 1 | - /4.590 | - / - | - 14.590 | - 1 | - 1 | - 1 | - / - | - 1 | - $/ 4.590$ |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA - Contractor Services | - 1 - | - 1 - | - 1- | - 10.100 | - 1- | - 10.100 | - 10.600 | - 1- | - 1 | - 1 - | - 1 | - 10.700 |
| Subtotal: Support | - | - 1 | - / - | - 10.100 | - / - | - 10.100 | - 10.600 | 1 | / | - / | / | - 10.700 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | - | $\cdot$ | 4.690 | - | 4.690 | 0.600 | - | - | - | - | 5.290 |

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 <br> Modification Number / Title: <br> 2 I P-3A PARCS Modification (formerly PARCS PARSS) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activit 3080F / 03 / 8 | Budget S | ub Activit | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | - | - | 0.750 | - | 0.750 | 8.763 | 9.102 | 8.148 | 8.294 | - | 35.057 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | - | - | 0.750 | - | 0.750 | 8.763 | 9.102 | 8.148 | 8.294 | - | 35.057 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | - | - | 0.750 | - | 0.750 | 8.763 | 9.102 | 8.148 | 8.294 | - | 35.057 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 repair. To best ensure operational availability, replacement projects are performed in phases targeting the highest risk components of the subsystems.

FY17 will fund ongoing program management administrative costs supporting PARCS modification efforts funded in Space Procurement Air Force in FY16.
Milestone/Development Status

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 0.750 | - | 0.750 | 8.763 | 9.102 | 8.148 | 8.294 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 0.750 | - | 0.750 | 8.763 | 9.102 | 8.148 | 8.294 |

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  | Modification Number / Title: <br> 2 I P-3A PARCS Modification (formerly PARCS PARSS) |  |
| Modification Item 1 of 1: Modification |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: N/A |  |  |  | Manufacturer Location: N/A |  |  |  |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): |  |  |  |
| Dates | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Contract Dates |  |  |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  |  |  |  | Installation Quantity: 0 |  |  |

Exhibit P-3a, Individual Modification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F/03/8P-1 Line Item Number / Title: 838010 / Comm Elect Mods

## Date: February 2016

## Modification Number / Title:

3 / P-3A PAVE PAWS Modification (formerly PAVE PAWS Front End)

| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | - | - | 0.300 | - | 0.300 | 8.913 | 9.103 | 8.148 | 8.295 | - | 34.759 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | - | - | 0.300 | - | 0.300 | 8.913 | 9.103 | 8.148 | 8.295 | - | 34.759 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | - | - | 0.300 | - | 0.300 | 8.913 | 9.103 | 8.148 | 8.295 | - | 34.759 |

(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:

Formerly part of SPACE MOD SPACE mod BPAC 836790 FY15 and prior in OPAF and appropriated in Space Procurement Air Force in FY16. PAVE PHASED ARRAY WARNING SYSTEM (PAVE PAWS) radar is a ground based system with missions to support the Missile Correlation, Space Surveillance and Missile Defense Centers. These radars are located at Beale AFB, CA and Cod AFS, MA. The primary mission is to provide United States Strategic Command (USSTRATCOM) with credible Integrated Tactical Warning/Attack Assessment (ITW/AA) data on all Sea-Launched Ballistic Missiles (SLBMs) penetrating the coverage area and predicted impact (L\&PI) data for attack assessment and response determination. The secondary mission is to provide credible data on all Inter-Continental Ballistic Missiles (ICBMs) penetrating the coverage area. The tertiary mission is to support the Space Situational Awareness (SSA) network providing near-earth satellite surveillance and tracking, reporting observational (metric), SOI on man-made satellites and maintenance of the space catalog to prevent the significantly increasing potential for collisions with national assets, including manned space platforms. PAVE PAWS MODIFICATION (formerly PAVE PAWS Front-End Replacement) replaces obsolete or unsupportable system components and subsystems to address evolving space and missile threats. The PAVE PAWS mission equipment and associated sustainment suites consist of a mix of unique, custom-built components that are increasingly more difficult to maintain due to availability of replacement parts and obsolete COTS based subsystems that are no longer supported by the original equipment manufacturers. In addition, radar transmit \& receive components, processing equipment, and power distribution elements, and other radar front-end equipment are $30+$ years old, highly inefficient, and require replacement. Without these replacements there is a high risk that equipment failures will cause unacceptable mission downtime in order to troubleshoot and repair. FY17 will fund ongoing program management administrative costs supporting PAVE PAWS modification efforts funded in Space Procurement Air Force in FY16.

Milestone/Development Status

| N/A |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OcO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 0.300 | - | 0.300 | 8.913 | 9.103 | 8.148 | 8.295 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 0.300 | - | 0.300 | 8.913 | 9.103 | 8.148 | 8.295 |

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| Exhibit P-3a, Individual Modifi | n: PB | 17 Air For |  |  |  |  |  |  | Date: | bruary 2 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity 3080F / 03 / 8 | Budget | ub Activit |  | Line Item 10 / Comm | $\begin{aligned} & \text { Number / } 1 \\ & \text { I Elect Mo } \end{aligned}$ |  |  |  | Modifi <br> 4 / PAR | tion Num CS Block | ber / Title: <br> 0 Update |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | FY 2017 <br> Base | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 4.240 | - | 4.240 | 0.750 | - | - | - | - | 4.990 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Milions) | - | - | - | 4.240 | - | 4.240 | 0.750 | - | - | - | - | 4.990 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 4.240 | - | 4.240 | 0.750 | - | - | - | - | 4.990 |
| (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:



 repair. To best ensure operational availability, replacement projects are performed in phases targeting the highest risk components of the subsystems.

 Group.

Milestone/Development Status

| N/A |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 4.240 | - | 4.240 | 0.750 | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 4.240 | - | 4.240 | 0.750 | - | - | - |

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  | Modification Number / Title: 4 I PARCS Block 00 Update |  |  |  |
| Models of Systems Affected: Exelis | Modification Type: Reliability \& Maintainability $\quad$ Related RDT\& |  |  |  |  |  |  |  | \&E PEs: |  |  |  |
|  | Prior Years | FY 2015 | FY 2016 | $\begin{aligned} & \text { FY } 2017 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|c\|c\|c\|c\|c\|} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | Qty (Each) I Total Cost (\$ M) | $\left\lvert\, \begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}\right.$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: PARCS |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| PARCS:INSTALL KITS Group A (Active) | - 1- | -1- | - 1- | 1/0.100 | - 1- | 1/0.100 | - 1- | - 1- | - 1 - | - 1- | - 1 - | 1/0.100 |
| Subtotal: Recurring | - 1 | -1. | - 1 | - 10.100 | -1. | - 10.100 | - 1- | - 1- | - 1- | - 1- | - 1- | - 10.100 |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| PARCS:EQUIPMENT Group B (Active) | -1- | -1- | - 1- | 1/3.890 | - 1- | 1/3.890 | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | 1/3.890 |
| Subtotal: Recurring | - 1. | 1 | 1 | - 13.890 | 1. | - 13.890 | - | - 1 - | 1. | 1 | , 1 - | - 13.890 |
| Subtotal: PARCS | - 1 - | - 1 - | - 1 | - 13.990 | - 1 - | - 13.990 | - / - | - / - | - / - | - / - | - 1 - | - 13.990 |
| Subtotal: Procurement, All Modification Items | $\cdot 1$ | -1. | - 1 - | - 13.990 | 1. | - 13.990 | - 1 - | - 1 | - 1 - | - / | - $/$ - | - 13.990 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA - Contractor Services | - 1 - | - 1 - | - 1 - | - 10.250 | 1 - | - 10.250 | - 10.750 | - 1 - | - 1 - | - 1 - | - 1 | - 11.000 |
| Subtotal: Support | - 1 - | - 1 - | - 1 - | - 10.250 | - 1 - | - 10.250 | - 10.750 | - 1 | 1 - | 1 | 1 | - 11.000 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - 1. | - 1. | . 1. | - 1. | - 1. | - 1. | . 1. | - 1. | - 1. | - 1. | . 1. | - 1. |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | - | - | 4.240 | - | 4.240 | 0.750 | - | - | - | - | 4.990 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force ${ }^{\text {a }}$ ( ${ }^{\text {a }}$ ( |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Shared Early Warning (SEW) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Year |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|} \text { MDAPII } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | $\begin{array}{\|c} \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ 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) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shared Early Warning Systems (SEWS) (PE 0308699F) | A |  | 0.574 | 1 | 0.574 | 0.329 | 1 | 0.329 | 0.220 | 1 | 0.220 | 0.403 | 1 | 0.403 | - | - |  | 0.403 | 1 | 0.403 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.329 |  | 1 | 0.220 |  | 1 | 0.403 |  | - |  |  | 1 | 0.403 |
| Subtotal: Uncategorized |  |  | - | - | 0.574 | - | - | 0.329 | - | - | 0.220 | - | - | 0.403 | - | - | - | - | - | 0.403 |
| Total |  |  | - | - | 0.574 | - |  | 0.329 | - |  | 0.220 | - | - | 0.403 | - |  |  | - | - | 0.403 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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 (\$ 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shared Early Warning Systems (SEWS) (PE 0308699F) | A |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - |  |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | 1 | 0.388 |  | 1 | 0.348 |  | 1 | 0.354 |  | 1 | 0.360 |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | . | . | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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 2: Personal Safety \& Rescue Equip

## P-1 Line Item Number / Title:

842140 / Night Vision Goggles

| 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 13.342 | 5.950 | - | - | - | - | - | - | - | - | 19.292 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 13.342 | 5.950 | - | - | - | - | - | - | - | - | 19.292 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 13.342 | 5.950 | - | - | - | - | - | - | - | - | 19.292 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | $\checkmark$ | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

FY15 funding includes $\$ .765 \mathrm{M}$ appropriated for Overseas Contingency Operations.
FY16 funding includes $\$ 3.580 \mathrm{M}$ appropriated for Overseas Contingency Operations (Guardian Angel Fusion Goggle-Enhanced).
Modern warfare resulted in an increase in airborne combat under the cover of darkness. Night missions include ground operations, preparation of the aircraft for take-off and landings in complete darkness, lightsoff air refueling, and visual identification of enemy targets hidden under the night sky. Consequently, ground personnel and aircrew require the capability to see in very low visibility conditions at night and high ambient light conditions such as full moon or heavily lighted residential areas. The use of Night Vision Goggles (NVG) is critical for combat rescue, special operations, and homeland security missions

A lack of night vision capability would significantly decrease combat effectiveness in night operations, risk flight safety, and increase the probability of fratricide. Aircraft such as HH-60 helicopters, HC-130s, $\mathrm{F}-16 \mathrm{~s}$, and special mission $\mathrm{C}-130 \mathrm{~s}$ primarily operate in low altitude environments during covert night operations. Hence, NVGs are vital to the success of these missions, providing a dramatic increase in safety, situational awareness, and survivability during the execution of near daytime tactics, including visual formation criteria. Furthermore, the proliferation of NVG-equipped adversaries underscores the urgent need to supply ground and air forces with night vision equipment.

Funding for this exhibit contained in Program Elements (PEs) 0702833F, 0207227F, and 0207588F.
Ground crew Goggles:
AN/PVS-14 Ground crew Goggle: This monocular night vision device is a hand-held, head-mounted, helmet-mounted, or weapon-mounted night vision system, which enables walking, weapon firing, short-range surveillance, map reading, vehicle maintenance, and first-aid administration during moonlight and starlight conditions. The AN/PVS-14 supports a vast spectrum of ground and air operations to include aircraft maintenance, civil engineering, emergency response, security, and other missions.

AN/PVS-15 Ground crew Goggle: This binocular NVG is a helmet-mounted or hand-held night vision system, which is primarily used by Special Forces during night drop operations. The AN/PVS-15 can be used for all nighttime ground operations. An added benefit of this particular binocular goggle is the back-up capability in the event one of the two tubes fails.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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
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 Item MDAP/MAIS Code(s): N/A



 requirements.

## Aircrew Goggles:


 effects of sudden bright light exposure.

Test Sets:




ANV-126A-UGF Test Set, Time Compliance Technical Order (TCTO) Kit: The ANV-126A-UGF is a commercial TCTO kit that converts the ANV-126 to the ANV-126A Test Set.

 priorities.

Note: No FY17 funds requested. All funding and tasks from FY17-FY21 have been moved to Project 842990, Items Less than $\$ 5$ Million.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 1,545 | 195 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 9.133 | 4.995 | - | - | - | - | - | - | - |
| AFNG | Quantity | 706 | 184 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.076 | 0.716 | - | - | - | - | - | - | - |
| AFR | Quantity | 248 | 63 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.133 | 0.239 | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 2,499 | 442 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 13.342 | 5.950 | - | $\bullet$ | - | $\bullet$ | - | - | $\bullet$ |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 842140 / Night Vision Goggles |  |  |  |  |
| 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \hline \end{array}$ | 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 | Night Vision Goggles |  |  |  | - 1 | - /13.342 | - 15.950 | 1 | - 1 | - 1 - |
| P-40 Total Gross/Weapon System Cost |  |  |  |  | - 1. | - /13.342 | - 15.950 | - 1. | - 1 | 1. |
| *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> No FY17 funds are being requested. All funding and tasks from FY17-FY21 have been moved to Project 842990 , Items Less than $\$ 5$ Million |  |  |  |  |  |  |  |  |  |  |

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $3080 \mathrm{~F} / 04$ / 2 |
| :--- | :--- |
| 842140 / Night Vision Goggles |  |

Date: February 2016

## Aggregated Items Title:

Night Vision Goggles

| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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 <br> (\$ 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 (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GROUNDCREW GOGGLES | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GROUNDCREW GOGGLE (AN/ PVS-14) | A |  | - | - | - | 0.003 | 1,890 | 5.670 | 0.003 | 282 | 0.850 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1,134 | 3.402 |  | 52 | 0.158 |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | 567 | 1.701 |  | 171 | 0.515 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | 189 | 0.567 |  | 59 | 0.177 |  | - | - |  | - | - |  | - | - |
| GROUNDCREW GOGGLE (AN/ PVS-15) | A |  | - | - | - | 0.010 | 73 | 0.711 | - | - | - | - | - | - | - | - | - | - | - | - |

Secondary Distribution


| Secondary Distribution |  |  |  |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: |
| AF |  |  |  | - |  |  |  |  |
| AIRCREW GOGGLES | A |  | - | - |  |  |  |  |
| AIRCREW GOGGLE | A |  |  |  |  |  |  |  |
| AN/AVS-9 (F4949G- <br> TG) |  |  | - | - |  |  |  |  |


| - |  | 63 | 2.409 | 115 | 4.381 |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 0.000 | - | - | - | - | - | - | - |
| - | 0.009 | 433 | 3.897 | - | - | - | - |


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


| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF |  |  | - | - |  | 278 | 2.502 |  | - | - |  |  |
| AFNG |  |  | - | - |  | 102 | 0.918 |  | - | - |  |  |
| AFR |  |  | - | - |  | 53 | 0.477 |  | - | - |  |  |
| TEST SETS | A | - | - | 0.000 | - | - | - | - | - | - | - |  |
| TEST SET, INFRARED VIEWER (ANV-126A) | A | - | - | 0.000 | - | - | - | - | - | - | - |  |
| TEST SET, TCTO KIT (ANV-126A-UGF) | A | - | - | - | 0.016 | 40 | 0.632 | 0.015 | 45 | 0.696 | - |  |



| AF |  |  | - | - |  | 19 | 0.300 |  | 28 | 0.433 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AFNG |  |  | - | - |  | 16 | 0.253 |  | 13 | 0.201 |  |
| AFR |  |  | - | - |  | 5 | 0.079 |  | 4 | 0.062 |  |
| PMA Other Government Cost | A | - | - | - | - | - | 0.023 | - | - | 0.023 | - |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Night Vision Goggles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 04 \text { / } 2$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 842140 / Night Vision Goggles |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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 (\$ M) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.023 |  | - | 0.023 |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 13.342 | - | - | 5.950 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | - | 13.342 | - | - | 5.950 | - | - | - | - | - | - | - | - | - |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Remarks: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| No FY17 funds are being requested. All funding and tasks from FY17-FY21 have been moved to Project 842990, Items Less than \$5 Million |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Guardian Angel FG-E unit cost is approximately \$38,000 per goggle and does not include support items. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FY15 funding total FY16 funding total | ludes ludes | $\begin{aligned} & \text { s } \$ .765 \mathrm{~N} \\ & \text { s } \$ 3.580 \end{aligned}$ | M for Overse OM for Overs | Contin as Cont | ncy Ope ency Op | ations to proc rations to pro | re 251 ure 76 | AN/PVS-14s. FGE's. |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA - Other Government Cost consists of travel ( $\$ 22,000$ ). |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## P-1 Line Item Number / Title:

842990 / Items Less Than $\$ 5$ Million

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and

Program Elements for Code B Items: N/A
Other Related Program Elements: 0604706F
ID Code (A=Service Ready, B=Not Service Ready): A

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

| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 4.973 | 31.209 | 73.030 | 54.416 | - | 54.416 | 52.682 | 48.280 | 49.326 | 46.336 | - | 360.252 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 4.973 | 31.209 | 73.030 | 54.416 | - | 54.416 | 52.682 | 48.280 | 49.326 | 46.336 | - | 360.252 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 4.973 | 31.209 | 73.030 | 54.416 | - | 54.416 | 52.682 | 48.280 | 49.326 | 46.336 | - | 360.252 |
| (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 provides a wide variety of base support and safety of flight items for warfighters with worldwide application.
Procures safety and rescue equipment, developed in Program Element (PE) 0604706F, Life Support Systems, for increased protection of aircrew personnel operating manned, non-space aircraft to optimize weapon system effectiveness and capability throughout the full spectrum of military operations. In general, the purpose of the PE is to expand the combat capabilities of a weapon system an airman supports while balancing functionality, comfort, and safety. Representative items include flight helmets, oxygen breathing equipment, flame resistant/retardant and blast protective gear, laser eye protection, personnel locator beacons, nuclear flash blindness devices, personnel parachutes, ejection seats/equipment, survival radio test sets, life rafts, life preservers, anti-exposure coveralls, and other air/ground crew equipment.

Guardian Angel Family of Systems:
Guardian Angel is an Air Force non-aircraft weapon system within the overarching Battlefield Airman Modernization Program. Guardian Angel is a family of systems based on human and equipment capabilities formulated to execute Air Force Combat Search and Rescue and personnel recovery across a full spectrum of military operations. Guardian Angel family of systems is employed by three distinct Air Force Specialties: Pararescuemen (PJ), Survival, Evasion, Resistance, and Escape (SERE) and Combat Rescue Officer (CRO). Representative items include but are not limited to parachute equipment, technical rescue equipment, information management systems, rescue craft and a Live Virtual Constructive (LVC) Training Simulator (simulator, maintenance \& mobile shelter costs) to supplement, augment, and optimize current training events, independent of aircraft availability to align with strategic plans of the Next Generation LVC for training within the DoD.. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. This includes applicable training, spares, and repairs. Due to rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements. Due to rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements.
Guardian Angel Enhanced Night Vision Systems: Continued Procurement of Night Vision solutions that improve personnel recovery night visions systems with wider field of view, lower SWAP, and/or enhanced vision in at least one spectral band other than Near-IR. Procurement is required to meet mission needs until the next generation of multi-spectral NVGs are developed and available for ground crew operators. Due to rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements.
All funding and tasks from FY17-FY21 have been moved from Project 842140 Night Vision Goggles to Project 842990 , Items Less than $\$ 5$ Million.

Special Tactics/Combat Control Battlefield Airmen program funds Air Force standardized equipment within the overarching Battlefield Airman Modernization program for Special Tactics combat controllers, pararescue personnel, combat weather operators and tactical air control parties to

## 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

Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
842990 / Items Less Than $\$ 5$ Million

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

Line Item MDAP/MAIS Code: N/A
 for USAF Special Tactics units.

Modern warfare resulted in an increase in airborne combat under the cover of darkness. Night missions include ground operations, preparation of the aircraft for take-off and landings in complete darkness, lightsoff air refueling, and visual identification of enemy targets hidden under the night sky. Consequently, ground personnel and aircrew require the capability to see in very low visibility conditions at night and high ambient light conditions such as full moon or heavily lighted residential areas. The use of Night Vision Goggles (NVG) is critical for combat rescue, special operations, and homeland security missions.

A lack of night vision capability would significantly decrease combat effectiveness in night operations, risk flight safety, and increase the probability of fratricide. Aircraft such as HH-60 helicopters, HC-130s, $\mathrm{F}-16 \mathrm{~s}$, and special mission C-130s primarily operate in low altitude environments during covert night operations. Hence, NVGs are vital to the success of these missions, providing a dramatic increase in safety, situational awareness, and survivability during the execution of near daytime tactics, including visual formation criteria. Furthermore, the proliferation of NVG-equipped adversaries underscores the urgent need to supply ground and air forces with night vision equipment.

Funding for this exhibit contained in Program Elements (PEs) 0702833F, 0207227F, 0202834F, and 0207588F.
Ground crew Goggles:
AN/PVS-14 Ground crew Goggle: This monocular night vision device is a hand-held, head-mounted, helmet-mounted, or weapon-mounted night vision system, which enables walking, weapon firing, short-range surveillance, map reading, vehicle maintenance, and first-aid administration during moonlight and starlight conditions. The AN/PVS-14 supports a vast spectrum of ground and air operations to include aircraft maintenance, civil engineering, emergency response, security, and other missions.

AN/PVS-15 Ground crew Goggle: This binocular NVG is a helmet-mounted or hand-held night vision system, which is primarily used by Special Forces during night drop operations. The AN/PVS-15 can be used for all nighttime ground operations. An added benefit of this particular binocular goggle is the back-up capability in the event one of the two tubes fails.

## Aircrew Goggles:

 potential for air-to-ground fratricide and mid-air collisions during night operations. The AN/AVS-9 (F4949-TG) is a light-weight, helmet-mounted goggle equipped with pinnacle tube technology that mitigates effects of sudden bright light exposure.

Test Sets:




ANV-126A-UGF Test Set, Time Compliance Technical Order (TCTO) Kit: The ANV-126A-UGF is a commercial TCTO kit that converts the ANV-126 to the ANV-126A Test Set.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0604706F

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


 priorities.\</span\>

Funding for this exhibit contained in PEs 0207227F, 0207433F, 0408011F, 0503113F and 0702833F.
Projected allocations for component requirements are subject to total force demands and priorities.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2017$ <br> Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 2,718 | 14,803 | 2,625 | - | 2,625 | 70 | 142 | 137 | 206 |
|  | Total Obligation Authority | 31.209 | 73.030 | 53.789 | - | 53.789 | 52.143 | 47.766 | 48.809 | 45.785 |
| AFNG | Quantity | - | - | 71 | - | 71 | 33 | 63 | 64 | 100 |
|  | Total Obligation Authority | - | - | 0.499 | - | 0.499 | 0.425 | 0.372 | 0.406 | 0.416 |
| AFR | Quantity | - | - | 21 | - | 21 | 9 | 23 | 19 | 33 |
|  | Total Obligation Authority | - | - | 0.128 | - | 0.128 | 0.114 | 0.142 | 0.111 | 0.135 |
| Total: <br> Secondary Distribution | Quantity | 2,718 | 14,803 | 2,717 | - | 2,717 | 112 | 228 | 220 | 339 |
|  | Total Obligation Authority | 31.209 | 73.030 | 54.416 | - | 54.416 | 52.682 | 48.280 | 49.326 | 46.336 |

## Justification:

FY17 procurement dollars procure Aircrew Flight Equipment, Life Support Systems, and Guardian Angel equipment.
 HC-130 and HH-60 Communications/Rescue systems.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq

| 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 7.670 | 7.249 | 7.344 | - | 7.344 | 8.140 | 8.222 | 8.371 | 8.522 | - | 55.518 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 7.670 | 7.249 | 7.344 | - | 7.344 | 8.140 | 8.222 | 8.371 | 8.522 | - | 55.518 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 7.670 | 7.249 | 7.344 | - | 7.344 | 8.140 | 8.222 | 8.371 | 8.522 | - | 55.518 |
| (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 Materiel Handling Equipment line provides funding for Mechanized Materiel Handling Systems (MMHS) and Storage Aids Systems (SAS).
MMHS and SAS equipment provide bases worldwide with automated and static equipment to store, receive, and ship materiel. MMHS and SAS equipment involves the design and acquisition of mechanized and non-mechanized materiel handling systems such as receiving, storage, and distribution systems; high density storage systems; and a variety of SAS equipment including racks, bin shelving, modular cabinets, and mezzanines.

Transportation systems generally include equipment such as heavy duty freight handling 463L conveyors, pallet buildup/breakdown lift conveyor stations, cargo staging racks, and overhead bridge cranes for air freight terminal systems; roller conveyors and overhead cranes for aerial delivery facility systems; narrow aisle vehicle replacements; and external aircraft fuel tank storage systems. Adequately equipped facilities are essential to the storage and handling of weapon system components, and the processing of personnel, baggage, and freight to reduce pipeline time and to provide Air Force capability to respond to crises and threats whenever they occur in the world.

The FY2016 funding request was reduced by $\$ 0.077$ million to account for the availability of prior execution balances.
Program elements associated with this P-1 Line are 0202834F, 0702834F, 0802834F, 0402834F, 0502834F, 0502844F, 0207597F, and 0401221F.
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.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 16 | 23 | 25 | - | 25 | - | - | - | - |
|  | Total Obligation Authority | 4.388 | 6.419 | 6.144 | - | 6.144 | - | - | - | - |
| AFNG | Quantity | 8 | 2 | 3 | - | 3 | - | - | - | - |

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| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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, | 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | FY 2017 <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
|  | Total Obligation Authority | 3.282 | 0.539 | 1.050 | - | 1.050 | - | - | - | - |
| AFR | Quantity | - | 1 | 1 | - | 1 |  | - | - | - |
|  | Total Obligation Authority | - | 0.291 | 0.150 | - | 0.150 | - | - | - | - |
| Total: | Quantity | 24 | 26 | 29 | - | 29 | - | - | - | - |
| Secondary Distribution | Total Obligation Authority | 7.670 | 7.249 | 7.344 | - | 7.344 | - | - | - | - |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 Read |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Ite | m MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| $\begin{aligned} & \hline \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* |  | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Co } \end{array}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cos (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | Mechanized Material Handling Equip |  |  |  | - 1 - | - 17.670 | - 17.249 | - 17.344 | 1. | - 17.344 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | -1- | - 17.670 | - 17.249 | - 17.344 | - 1. | - 17.344 |

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

## Justification:

FY17 procurement funds MMHS/SAS equipment which increases the productivity of Air Force operations, enhances management control of assets, reduces multiple handling of logistics materiel by consolidating assets, increases flexibility at a minimum investment cost, enhances safety, reduces losses due to damage of materiel in transport, and reduces congestion and delays in the receiving, storage and issue operations in supply, base level maintenance, and transportation facilities. Also provides critical support for mission readiness of $\mathrm{F}-16$ realignment, and $\mathrm{F}-22, \mathrm{~F}-35$, and $\mathrm{KC}-46 \mathrm{~A}$ beddown of assets through the use of MMHS/SAS equipment.

MMHE is to be purchased in the following quantities: 2 conveyors, 6 high density storage systems, 1 narrow aisle equipment replacement, 1 receiving, storage and distribution system, 19 storage aid systems.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
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 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | FY 2017 Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 16.155 | 13.595 | 6.852 | - | 6.852 | 9.671 | 10.017 | 10.211 | 10.401 | - | 76.902 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 16.155 | 13.595 | 6.852 | - | 6.852 | 9.671 | 10.017 | 10.211 | 10.401 | - | 76.902 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 16.155 | 13.595 | 6.852 | - | 6.852 | 9.671 | 10.017 | 10.211 | 10.401 | - | 76.902 |
| (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:



 and Part Task Trainers, Reduced Oxygen Breathing Devices, Terrain Boards, Parachuting Trainers, Aircrew Exercise Equipment.

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 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \\ & \hline \end{aligned}$ | 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 | Base Procured Equipment |  |  | - 1 | - /16.155 | - /13.595 | - 16.852 | - 1 - | - 16.852 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1 - | - /16.155 | - /13.595 | - 16.852 | - 1 | - 16.852 |

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

## Justification:

Base Procured Equipment:
Power Conditioning \& Continuation Interfacing Equipment (PCCIE):
 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.

PE 84731F - funds procure:
 training \& IW Phase II channel control capability. This item simulates a UHF satellite terminal
 completion in the Expeditionary Combat Support Radio course.

c). Parachute System for Pararescue and Combat Rescue Officer training (Lackland AFB): Purchase of RamAir (RA-1) Parachute System

PE 84752F - funds procure Laboratory equipment for AF Institute of Technology.
Power Conditioning \& Continuation Interfacing Equipment (PCCIE):
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.

The Uninterruptible Power Supply (UPS) systems protect sensitive electronic equipment/systems such as command and control centers, intelligence missions, radars, etc.

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <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 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | rior Years |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|l} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BASE PROCURED EQUIPMENT | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| AF CIVIL ENGR SPT AGENCY | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| AF SPACE CMD | A |  | - | - | - | - | - | - | - | - | 1.590 | - | - | - | - | - | - | - | - | - |
| AIR COMBAT CMD | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AIR EDUCATION \& TRAINING CMD | A |  | - | - | - | - | - | 7.841 | - | - | 7.555 | - | - | 2.788 | - | - | - | - | - | 2.788 |
| PACIFIC AIR FORCES | A |  | - | - | - | - | - | 2.030 | - | - | - | - | - | - | - | - | - | - | - | - |
| US AIR FORCES EUROPE | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| US AIR FORCE ACADEMY | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| AIR FORCE MATERIEL CMD | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| PCCIE | A |  | - | - | - | - | - | 6.284 | - | - | 4.450 | - | - | 3.998 | - | - | - | - | - | 3.998 |
| 1) PCCIE PMA | A |  | - | - | - | - | - | - - | - | - | - | - | - | 0.066 | - | - | - | - | - | 0.066 |
| AIR FORCE GLOBAL STRIKE CMD | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| AIR FORCE WIDE/ PCCIE | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 16.155 | - | - | 13.595 | - | - | 6.852 | - | - | - | $\cdot$ | - | 6.852 |
| Total |  |  | - | - | - | $\cdot$ | - | - 16.155 | - | - | 13.595 | - | - | 6.852 | . | - | - | - | - | 6.852 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> 1) PCCIE PMA - FY17 funding will support Program Office Management efforts including computer support, travel, A\&AS and cost estimating/analysis services |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
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:

845100 / ENGINEERING AND EOD EQUIPMENT 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Millions) | - | 118.734 | 64.656 | - | 53.900 | 53.900 | 21.839 | 37.597 | 40.162 | 40.348 | - | 377.236 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 118.734 | 64.656 | - | 53.900 | 53.900 | 21.839 | 37.597 | 40.162 | 40.348 | - | 377.236 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 118.734 | 64.656 | - | 53.900 | 53.900 | 21.839 | 37.597 | 40.162 | 40.348 | - | 377.236 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

 (ADR) program for $\$ 0.397 \mathrm{M}$ funding were zeroed out by an OSD Resource Management Decision (RMD) INV-001.

FY17 OCO Funding JCREW - 0205671F and the European Reassurance Initiative (ERI) for the Airfield Damage Repair (ADR)- 0208028F PECs associated with P-1 Line:
 are critical self-protection of Mine Resistant, Ambush Protected (MRAP) vehicle mounted, EOD dismounted and airbase Entry Control Point operations.

 under ADR are intended to bring the repair time into operational acceptable limits in support of COCOM post attach Air Tasking Orders.

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 - | - 1118.734 | - 164.656 | - 1 - | - 153.900 | - 153.900 |
| P-40 | Total Gross/Weapon System Cost |  |  | - 1 - | - /118.734 | - $/ 64.656$ | - 1 - | - 153.900 | - 153.900 |

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

## Justification:

FY17 Baseline procurement dollars procures EOD Specialized Equipment and Airfield Damage Repair Kits.
 INV-001.

## FY17 OCO funding:


 operations.






Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 04$ / 5 | P-1 Line Item Number / Title: <br> 845100 / ENGINEERING AND EOD EQUIPMENT |
| :--- | :--- |


| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 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 <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 <br> (\$ M) | Unit C (\$) |

Date: February 2016
Aggregated Items Title:

ENGINEERING AND EOD EQUIPMENT FY 2017 OCO |  |  |
| :--- | :--- |
| ortal |  |
| ost |  | FY 2017 Total

| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{aligned} & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Cost } \\ & (\$ M) \end{aligned}$ | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Cost } \\ & (\$ M) \end{aligned}$ | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Cost } \\ & (\$ M) \end{aligned}$ | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Cost } \\ & (\$ M) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| categorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CVRJ CREW Refurbishment | A | - | - | - | 8,053.86 | 817 | 6.580 | - | - | - | - | - | - | - | - | - | - | - | - |
| JCREW Dismounted Systems | A | - | - | - | 116,976.74 | 215 | 25.150 | 98,458.00 | 110 | 10.830 | - | - | - | 74,979.59 | 49 | 3.674 | 74,979.59 | 49 | 3.674 |
| JCREW Mounted Systems | A | - | - | - | 215,504.59 | 109 | 23.490 | 169,620.00 | 212 | 35.959 | - | - | - | 221,220.18 | 218 | 48.226 | 221,220.18 | 218 | 48.226 |
| JCREW Fixed Site Systems | A | - | - | - | 451,111.11 | 18 | 8.120 | - | - | - |  | - | - | - | - |  |  | - |  |


| JCREW Fixed Site <br> Systems | A |  | - | - | - |
| :--- | :--- | :--- | :--- | :--- | :--- |
| CREW Universal Test <br> Sets | A |  | - | - | 0.000 |


| FRS (EOD portable X- <br> RAY |
| :--- | :--- |
| Total Containment |

Vessel Emergency Respons Transpor Fuze Disassembly System, Explosive | Ordnance Disposal |
| :--- |
| Light Tactial Trailers | EOD-M Program -

Ordance Locator EOD-M IED Search Kits
Toolsets Diarming
Toolsets
Rod PowerHawk
EOD-M Mini Remote
Firing Device
RECOVERY REPAIR
KIT (Training/Small
Sized)
RECOVERY REPAIR
KIT-R1 (Medium
Sized Kit)
RECOVERY REPAIR KIT - R2 (Large Size
Kit)
RECOVERY REPAIR KIT - R3 (Very Large Size Kit)

| - | - | 8,053.86 | 817 | 6.580 | - |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - | - | 116,976.74 | 215 | 25.150 | 98,458.00 |
| - | - | 215,504.59 | 109 | 23.490 | 169,620.00 |
| - | - | 451,111.11 | 18 | 8.120 | - |
| - | 0.000 | - | - | - | - |
| - | - | 79,957.45 | 94 | 7.516 | - |
| - | - | 325,000.00 | 10 | 3.250 | - |
| - | - | 218,518.52 | 27 | 5.900 | - |
| - | 0.000 | - | - | - | - |
| - | - | - | - | - | 17,000.00 |
| - | - | - | - | - | 26,921.00 |
| - | - | - | - | - | 6,000.00 |
| - | - | - | - | - | 10,000.00 |
| - | - | - | - | - | 39,670.00 |
| - | - | - | - | - | - |
| - | - | 168,841.00 | 4 | 0.675 | 435,000.00 |
| - | - | 291,569.00 | 6 | 1.749 | 1,262K |
| - | - | 292,066.00 | 2 | 0.584 | - |
| - | - | 219,090.00 | 1 | 0.219 | 2,845K |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 845100 / ENGINEERING AND EOD EQUIPMENT |  |  |  |  |  |  |  | Aggregated Items Title: <br> ENGINEERING AND EOD EQUIPMENT |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l} \text { MDAP/ } \\ \text { MAIS } \\ \text { code } \end{array}$ | 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) | 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 (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| RADBO Equipment, Integration, \& Spares Kits | A |  | - | . | - | 2,536K | 14 | 35.500 | - | . | - | - | . | - | - | . | . | - | . | . |
| Support Agadez Infrastructure IT Service Mgmt Services | A |  | - | - | - | - | - | - | 9,537K | 1 | 9.537 | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 118.734 | - | - | 64.656 | - | - | - | - | - | 53.900 | - | - | 53.900 |
| Total |  |  | . | - | - | . | - | 118.734 | - | - | 64.656 | - | . | - | . | . | 53.900 | - | - | 53.900 |

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

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> 845380 / Productivity Capital Investment |  |  |  |  |  |  |  |
| 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 2.495 | - | - | - | - | - | - | - | - | - | 2.495 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 2.495 | - | - | - | - | - | - | - | - | - | 2.495 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 2.495 | - | - | - | - | - | - | - | - | - | 2.495 |
| (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:

FY15 funds Air Force Productivity Capital Investment (PCI) projects in the Productivity Investment Fund (PIF) program. Funds are available to all Air Force organizations to encourage productivity enhancements for more efficient operations, focus on labor cost savings, and reductions in unit costs of operations. This program conserves critical resources, enhances unit capability, and improves combat effectiveness.

Program element associated with this line is 0901215F.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: <br> 845380 / Productivity Capital Investment |  |  |  |  |  |
| ID Cod | A=Service Ready, B=Not Service Ready |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line It | m MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base |  | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|l} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | Productivity Capital Investment |  |  |  | - 1 - | - 12.495 | - 1 - | - 1 - |  | 1 | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 12.495 | - 1- | - 1- |  | - 1. | - 1 - |

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

## Justification:

 investment. Projects continue to yield life cycle savings of over $\$ 3$ for every $\$ 1$ invested. Productivity Capital Investments is an ongoing program.
 in the work place, throughout the Air Force.

No Budget Year FY2017 funding requested.

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: <br> Productivity Capital Investment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 845380 / Productivity Capital Investment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost $(\$ M)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Air Force Wide Projects | A |  | - | - | - | - | - | 2.495 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 2.495 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | . | - | - | - | 2.495 | - | - | . | - | - | - | - | . | - | - | - | - |

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

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## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | 300 | - | - | - | - | - | - | - | - | - | - | 300 |
| Gross/Weapon System Cost (\$ in Millions) | 59.312 | 64.934 | 62.250 | 8.146 | - | 8.146 | 8.390 | 9.523 | 9.693 | 9.867 | - | 232.115 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 59.312 | 64.934 | 62.250 | 8.146 | - | 8.146 | 8.390 | 9.523 | 9.693 | 9.867 | - | 232.115 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 59.312 | 64.934 | 62.250 | 8.146 | - | 8.146 | 8.390 | 9.523 | 9.693 | 9.867 | - | 232.115 |
| (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) | 197,706.67 | - | - | - | - | - | - | - | - | - | - | 773,716.67 |

## Description:





 replacement. BEAR demonstrated its critical role in support of Operations Enduring Freedom and other operations worldwide.

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).




Mobile Aircraft Arresting System: This air transportable barrier arresting Bak-12 mounted on a mobile trailer to accommodate the recovery of fighter aircraft returning to battle damaged airfield.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and

## P-1 Line Item Number / Title:

845420 / Mobility Equipment
Support Equip / BSA 5: Base Support Equipment


## Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A

Hygiene: Hygiene includes Shower, Shave and Latrine, and Self Help Laundry system which provides personal hygiene facilities in support of BEAR bases.
Hygiene Shelters: Hygiene Shelters are designed to be used as changing rooms connecting to the BEAR Hygiene System. The shelters support personnel utilizing BEAR Hygiene Systems.
 used to support the BEAR services, feeding and mortuary operations.
 Shelter Flies, Shelter Flooring/matting for various shelter sizes, Shelter liners.

Shelter Flooring: Shelter flooring varies in size for small and large shelters (ACH, LAMS, Mortuary).

 deployable mobility packages and other contingencies in all theaters of operation.

Training/Multi-Media Training - Provides BEAR and items for all training sites and funds for all required BEAR multi-media training requirements.
Program element associated with this P-1 Line is: 0401135F.

| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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) |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |  |  |
| Line Ite | m MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 |  | FY 2017 Base |  | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | Mobility Equipment <br> Total Gross/Weapon System Cost |  |  |  | - 159.312 | - 164.934 | - 162.250 |  | - 18.146 |  | - 1 - | - 18.146 |
| P-40 |  |  |  |  | $300 / 59.312$ | - 164.934 | - /62.250 |  | - 18.146 |  | - 1 - | - 18.146 |

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

## Justification:

 personnel.

## UNCLASSIFIED



Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 20.147 | 30.277 | 28.427 | - | 28.427 | 29.981 | 48.202 | 49.059 | 44.645 | - | 250.738 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 20.147 | 30.277 | 28.427 | - | 28.427 | 29.981 | 48.202 | 49.059 | 44.645 | - | 250.738 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 20.147 | 30.277 | 28.427 | - | 28.427 | 29.981 | 48.202 | 49.059 | 44.645 | - | 250.738 |
| (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:



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

Program elements associated with this P-1 Line are: 0202834F, 0207142F, 0208031F, 0208534F, 0208550F, 0401221F, 0402834F, 0502834F, 0502844F, 0702834F, 0802834F.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 8 | 10 | 4 | - | 4 | 10 | 3 | 2 | 2 |
|  | Total Obligation Authority | 20.147 | 29.060 | 26.538 | - | 26.538 | 29.045 | 47.341 | 48.192 | 43.761 |
| AFNG | Quantity | - | 2 | 4 | - | 4 | 2 | 2 | 2 | 2 |
|  | Total Obligation Authority | - | 1.078 | 1.511 | - | 1.511 | 0.819 | 0.768 | 0.772 | 0.787 |
| AFR | Quantity | - | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 |
|  | Total Obligation Authority | - | 0.139 | 0.378 | - | 0.378 | 0.117 | 0.093 | 0.095 | 0.097 |
| Total: <br> Secondary Distribution | Quantity | 8 | 13 | 9 | - | 9 | 13 | 6 | 5 | 5 |
|  | Total Obligation Authority | 20.147 | 30.277 | 28.427 | - | 28.427 | 29.981 | 48.202 | 49.059 | 44.645 |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 845990 / Items Less Than $\$ 5$ Million |  |  |  |  |
| 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| Exhibit Type | Title* |  | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | Items Less Than \$5 Million |  |  |  | - 1 - | - 120.147 | - 130.277 | - 128.427 | - 1 | - 128.427 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 120.147 | - 130.277 | - 128.427 | - 1 - | - 128.427 |

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

## Justification:

 (FORCE) and PMA in support of installation and unit mission requirements for Air Force personnel.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 04 / 5$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 845990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  | Aggregated Items Title: Items Less Than $\$ 5$ Million |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FSE / FORCE ${ }^{(1)}$ | A |  | - | - | - | - | - | 11.675 | - | - | 24.209 | - | - | 23.886 | - | - | - | - | - | 23.886 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 11.675 |  | - | 24.209 |  | - | 23.886 |  | - | - |  | - | 23.886 |
| PMA OTHER GOVERNMENT COSTS | A |  | - | - | - | - | - | 0.010 | - | - | 0.037 | - | - | 0.019 | - | - | - | - | - | 0.019 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.010 |  | - | 0.037 |  | - | 0.019 |  | - | - |  | - | 0.019 |
| FSC 1710 AIRCRAFT ARRESTING SYSTEM | A |  | - | - | . | 0.435 |  | $8 \quad 3.483$ | 0.311 | 3 | 0.934 | 0.268 | 2 | 0.535 | - | - | - | 0.268 | 2 | 0.535 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | $8{ }^{8} 3.483$ |  | 3 | 0.934 |  | 2 | 0.535 |  | - | - |  | 2 | 0.535 |
| IPE EQUIPMENT | A |  | - | - | - | - | - | - - | 0.364 | 8 | 2.914 | 0.378 | 7 | 2.644 | - | - | - | 0.378 | 7 | 2.644 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | 7 | 2.775 |  | 2 | 0.755 |  | - | - |  | 2 | 0.755 |
| AFNG |  |  |  | - | - |  | - | - - |  | - | - |  | 4 | 1.511 |  | - | - |  | 4 | 1.511 |
| AFR |  |  |  | - | - |  | - | - - |  | 1 | 0.139 |  | 1 | 0.378 |  | - | - |  | 1 | 0.378 |
| NON EXPANDABLE SHELTER | A |  | - | - | - | - | - | - - | 0.539 | 2 | 1.078 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - - |  | 2 | 1.078 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - - |  | - | - |  | - | - |  | - | - |  | - | - |
| GENERATOR POWER PLANT | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| DEPLOYABLE DEBRIEF FACILITIES (DDF) | A |  | - | - | - | - | - | 1.773 | - | - | 1.105 | - | - | 1.308 | - | - | - | - | - | 1.308 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.773 |  | - | 1.105 |  | - | 1.308 |  | - | - |  | - | 1.308 |
| PMA - OTHER GOVERNMENT COSTS | A |  | - | - | - | - | - | 0.206 | - | - | - | - | - | 0.035 | - | - | - | - | - | 0.035 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.206 |  | - | - |  | - | 0.035 |  | - | - |  | - | 0.035 |
| MOBILE AIRCRAFT <br> ARRESTING <br> SYSTEM (MAAS) <br> (SEE REMARKS) | A |  | - | - | . | - | - | 3.000 | - | . | . | - | . | - | - | . | . | - | . | - |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: Items Less Than \$5 Million |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 845990 / Items Less Than $\$ 5$ Million |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | MDAP/ <br> mals <br> Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 Total |  |  |
| Item Number / Title [DODIC] | ID |  | 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 (\$ 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) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  |  |  |  |  | 3.000 |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Uncategorized |  |  |  |  |  |  |  | 20.147 |  |  | 30.277 |  |  | 28.427 |  |  |  | - |  | 28.427 |
| Total |  |  | - |  |  | - |  | 20.147 | - |  | 30.277 | - |  | 28.427 | - | - |  | - |  | 28.427 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> PROGRAM MANAGEMENT ADMINISTRATION (PMA): PMA supports the operation of the program office in its management and oversight role via travel, procurement of supplies and Advisory and Administrative Services (A\&AS). <br> Footnotes: <br> ${ }^{(1)}$ FY15 funding includes $\$ 10.975 \mathrm{M}$ requested for Overseas Contingency Operations to procure Fuels Support Equipment (FSE) and Fuels Operational Readiness Capability Equipment (FORCE).; FY16 funding includes $\$ 9.800 \mathrm{M}$ requested for Overseas Contingency Operations to procure Fuels Support Equipment (FSE) and Fuels Operational Readiness Capability Equipment (FORCE). |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 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: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) |  | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) |  | 24.710 | 25.072 | 25.287 | - | 25.287 | 25.739 | 26.191 | 26.653 | 27.132 | - | 180.784 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 24.710 | 25.072 | 25.287 | - | 25.287 | 25.739 | 26.191 | 26.653 | 27.132 | - | 180.784 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 24.710 | 25.072 | 25.287 | - | 25.287 | 25.739 | 26.191 | 26.653 | 27.132 | - | 180.784 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Detailed information on the DARP RC-135 program remains classified and will be provided on a need-to-know basis. For further information, please contact AF/A2RM, (703) 614-7317.
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
The program element associated with this P-1 Line is: 0305207F
Justification:
DARP RC-135 program remains classified and will be provided on a need-to-know basis.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 206.743 | 177.021 | 169.201 | 0.800 | 170.001 | $165.939{ }^{\text {(a) }}$ | $157.536{ }^{\text {(b) }}$ | $150.101^{(c)}$ | $152.802{ }^{\text {(d) }}$ | - | 1,180.143 ${ }^{(\mathrm{e})}$ |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 206.743 | 177.021 | 169.201 | 0.800 | 170.001 | 165.939 | 157.536 | 150.101 | 152.802 | - | 1,180.143 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 206.743 | 177.021 | 169.201 | 0.800 | 170.001 | 165.939 | 157.536 | 150.101 | 152.802 | - | 1,180.143 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 12.000 | - | - | - | - | - | - | - | - | - | 12.000 |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:










 conflict.

 improved sensor capabilities, as well as enhance interoperability by migrating to an Open Architecture (OA) to improve data sharing ability per DoD direction.

 3.0), SIGINT Transformation, Sensor Integration, Multi-INT, Infrastructure Transformation, and DCGS Reference Imagery Transition (DRT):
 Hyper Spectral ACES-HY (MQ-1) and Global Hawk Block 40 capability into AF DCGS.


Exhibit P-40, Budget Line Item Justification: PB 2017 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 $\quad$ Item MDAP/MAIS Code(s): N/A

 Intelligence Payload (ASIP) family of systems and integrates the Common Intelligence Collections System (CICS) capability.
 framework.


 toward a cloud architecture.
8. DRT: The Air Force DCGS Reference Imagery Transition (DRT) effort provides data ingest, transfer, and storage capabilities for NGA reference imagery data.

NOTE: *Since FY17 appropriation is under \$5M in the budget year, system limitations prevent the P-3A from being displayed.
Other Program Funding Summary (\$ in Millions)/PE0305208F

| Line Item | FY2015 | FY2016 | FY2017 | FY2017 | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 Cost To | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RDT\&E: BA07: Line Item |  |  | Base | OCO | Total |  |  |  |  | Complete Cost |

Detailed information on PE 0305240F, Support to DoD DCGS Enterprise remains classified and will be provided on a need-to-know basis.
Other Program Funding Summary (\$ in Millions)/PE0305240F
RDT\&E: BA07: Line Item
$\begin{array}{ccccc}\text { FY2015 FY2016 } & \text { FY2017 } & \text { FY2017 } & \text { FY2017 } & \text { FY2018 } \\ & & \text { Base } & \text { OCO } & \text { Total }\end{array}$
$\begin{array}{llll}17.115 & 28.336 & 23.084 & 0.000\end{array}$
$23.084 \quad 26.273$
FY2019 FY2020 FY2021 Cost To Tota
$26.768 \quad 27.266 \quad 27.749 \quad$ Continuing Continuing
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit Line Item \# 846080 is contained in PEs 0305208F and 0305240F.
FY15 funding totals include $\$ 0$ appropriated for Overseas Contingency Operations (PEs 0305208F \& 0305240F).
FY16 funding totals include $\$ 0$ appropriated for Overseas Contingency Operations (PEs 0305208F \& 0305240F).
Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 199.543 | 177.021 | 169.201 | 0.800 | 170.001 | 144.848 | 136.073 | 128.234 | 130.541 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 7.200 | - | - | - | - | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |

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| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  | Date: February 2016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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, 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 |  | Item MDAP/MAIS Code(s): N/A |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \hline \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
|  | Total Obligation Authority | - | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 206.743 | 177.021 | 169.201 | 0.800 | 170.001 | 144.848 | 136.073 | 128.234 | 130.541 |

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016

## 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 $\quad$ Item MDAP/MAIS Code(s): N/A

| Exhibits Schedule |  |  |  | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | 0305208F |  |  | - 10.000 | - /181.556 | - 126.393 | - 16.276 | - 1- | 16.276 |
| P-3a | 1 / Geospatial Intelligence Bulk Release (GB) 4.1 (Reliability \& Maintainability) |  |  | 1 | 1 | - 10.293 | - / 16.846 | - 10.800 | - / 17.646 |
| P-3a | $2 /$ Geoint Transformation-1 (GEOINT) (Reliability \& Maintainability) |  |  | - 1 - | - 1 - | - / 12.067 | - /11.192 | - 1 - | - /11.192 |
| P-3a | 3 / Network Infrastructure Transformation-1 (Reliability \& Maintainability) |  |  | - 1 - | - 1 - | - 151.194 | - / 45.415 | - 1 - | - / 45.415 |
| P-3a | 4 / Multi-Intelligence-1 (Multi-INT) (Reliability \& Maintainability) |  |  | - 1 - | - 1 - | - 124.000 | - 123.388 | - 1 - | - / 23.388 |
| P-3a | 5 / Signal Intelligence Transformation-1 (SIGINT) (No text provided.) |  |  | - 1 - | - 1 - | - 17.600 | - 118.057 | - 1 - | - /18.057 |
| P-3a | 6 / DCGS Reference Imagery Transition (DRT) (Reliability \& Maintainability) |  |  | - 1 - | - 1 - | - / 23.655 | - / 18.160 | - 1 | - / 18.160 |
| P-40a | DCGS-AF |  |  | - 1 - | - 125.187 | - /31.819 | - 129.867 | - 1 - | - 129.867 |
| P-40 | Total Gross/Weapon System Cost |  |  | 10.000 | 1206.743 | 1177.021 | - /169.201 | 10.800 | / 170.001 |
| Exhibits Schedule |  |  |  | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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 | 0305208F |  |  | - /15.961 | - $/ 6.196$ | - /28.615 | - /32.301 | - 1 | - $/ 297.298$ |
| P-3a | 1 / Geospatial Intelligence Bulk Release (GB) 4.1 (Reliability \& Maintainability) |  |  | - / 19.436 | - /31.131 | - / 15.178 | - / 16.033 | - 1 | - / 99.717 |
| P-3a | $2 /$ Geoint Transformation-1 (GEOINT) (Reliability \& Maintainability) |  |  | - /12.100 | - / 12.878 | - / 15.236 | - /16.754 | - 1 - | - 180.227 |
| P-3a | 3 / Network Infrastructure Transformation-1 (Reliability \& Maintainability) |  |  | - 134.886 | - / 35.541 | - 121.054 | - /16.726 | - 1 - | - 1204.816 |
| P-3a | 4 / Multi-Intelligence-1 (Multi-INT) (Reliability \& Maintainability) |  |  | - 129.168 | - / 15.390 | - 19.295 | - /15.948 | - 1 - | / 117.189 |
| P-3a | 5 / Signal Intelligence Transformation-1 (SIGINT) (No text provided.) |  |  | - 17.682 | - / - | - / 15.086 | - / 16.736 | - 1 - | - /65.161 |
| P-3a | 6 / DCGS Reference Imagery Transition (DRT) (Reliability \& Maintainability) |  |  | - / 25.615 | - / 34.937 | - 123.770 | - / 16.043 | -1 | - / 142.180 |
| P-40a | DCGS-AF |  |  | - 1 - | - 1 | - 1 | - 1 | - 1 - | / - |
| P-40 | Total Gross/Weapon System Cost |  |  | - /165.939 | - /157.536 | - / 150.101 | - /152.802 | - 1 - | - / 1,180.143 |
| *Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Amm |  |  |  | and/or 3) the Number | tle (Modification Type) | Modifications. Title reprer | sents the P-40a Title | en only the P-40a Sum | ary/Total is shown. |

## Justification:

Where applicable, justification for individual modifications is provided in the P-3A exhibits.
 follows:
${ }^{(a)}$ FY 2018 Cost Delta: 21.091 million
${ }^{(b)}$ FY 2019 Cost Delta: 21.463 million

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## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 04 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  |  |  |  |  |  | Aggregated Modification Items Title: 0305208F |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| DCGS10 / Network Communications |  |  | - | - | - | - | - | 55.831 | - | - | - | - | - | - | - | - | - | - |  | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 55.831 |  | - | - |  | - | - |  | - | - |  | - | - |
| DCGS11 / Data Links |  |  | - | - | - | - | - | 50.338 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 43.138 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | 7.200 |  | - | - |  | - | - |  | - | - |  | - | - |
| DCGS12 / Geospatial Intelligence |  |  | - | - | - | - | - | 40.954 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 40.954 |  | - | - |  | - | - |  | - | - |  | - | - |
| DCGS5 / Sensor Integration-1 |  |  | - | - | - | - | - | - - | - | - | 16.800 | - | - | 4.185 | - | - | - | - | - | 4.185 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | 16.800 |  | - | 4.185 |  | - | - |  | - | 4.185 |
| DCGS6 / System Release (SR) 3.0 |  |  | - | - | - | - | - | - - | - | - | 9.593 | - | - | 2.091 | - | - | - | - | - | 2.091 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | 9.593 |  | - | 2.091 |  | - | - |  | - | 2.091 |
| DCGS9 / System Release $-1$ |  |  | - | - | - | - | - | - 34.433 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 34.433 |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | 0.000 | - | - | 181.556 | - | - | 26.393 | - | - | 6.276 | - | - | - | - | - | 6.276 |
|  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <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) | $\underset{(\text { Each })}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) |
| DCGS10 / Network Communications |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 55.831 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | - | - |  | - | - |  | - | - |
| DCGS11 / Data Links |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 50.338 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - - |  | - | - |  | - | - |  | - | - |  | - | - |
| DCGS12 / Geospatial Intelligence |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 40.954 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  |  |  |  |  |  | Aggregated Modification Items Title: 0305208F |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | FY 2018 |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title |  |  | 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 <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) |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | - | - |  | - | - |  | - | - |
| DCGS5 / Sensor Integration-1 |  |  | - | - | 15.685 | - | - | - 6.196 | - | - | 15.053 | - | - | 16.170 | - | - | - | - | - | 74.089 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 15.685 |  |  | 6.196 |  | - | 15.053 |  | - | 16.170 |  | - | - |  | - | - |
| DCGS6 / System Release (SR) 3.0 |  |  | - | - | 0.276 | - |  | - | - | - | 13.562 | - | - | 16.131 | - | - | - | - | - | 41.653 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 0.276 |  |  | - - |  | - | 13.562 |  | - | 16.131 |  | - | - |  | - | - |
| $\begin{array}{\|l} \text { DCGS9 / System Release } \\ -1 \end{array}$ |  |  | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | 34.433 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | 15.961 | - |  | - 6.196 | - | - | 28.615 | - | - | 32.301 | - | - | - | - | - | 297.298 |

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 |  |
| :--- | :--- | :--- |
| DCGS10 / Network Communications | 0305208F | Reliability \& Maintainability |
| DCGS11 / Data Links | 0305208 F | Reliability \& Maintainability |
| DCGS12 / Geospatial Intelligence | 0305208F | Reliability \& Maintainability |
| DCGS5 / Sensor Integration-1 | 0305208F | Reliability \& Maintainability |
| DCGS6 / System Release (SR) 3.0 | 0305208F | Reliability \& Maintainability |
| DCGS9 / System Release - 1 | 0305208F | Reliability \& Maintainability |

Exhibit P-3a, Individual Modification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 04 / 6
## P-1 Line Item Number / Title: 846080 / DCGS-AF

## Date: February 2016

## Modification Number / Title:

1 / Geospatial Intelligence Bulk Release (GB) 4.1

| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2017$ <br> Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 0.293 | 16.846 | 0.800 | 17.646 | 19.436 | 31.131 | 15.178 | 16.033 | - | 99.717 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 0.293 | 16.846 | 0.800 | 17.646 | 19.436 | 31.131 | 15.178 | 16.033 | - | 99.717 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 0.293 | 16.846 | 0.800 | 17.646 | 19.436 | 31.131 | 15.178 | 16.033 | - | 99.717 |

(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:




 produce, and disseminate imagery.

Justification:

 to an open architecture to improve information sharing in compliance with DoD direction (e.g. DI2E, ICITE, VIP-C).
 (\$.400 Million) for distributed mission system (DMS) capability located at NASIC, Wright-Patterson AFB.

Milestone/Development Status


| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 0.293 | 16.846 | 0.800 | 17.646 | 19.436 | 31.131 | 15.178 | 16.033 |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |
| Secondary Distribution | Total Obligation Authority | - | 0.293 | 16.846 | 0.800 | 17.646 | 19.436 | 31.131 | 15.178 | 16.033 |

## UNCLASSIFIED



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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6 |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  | Modification Number / Title: <br> 1 / Geospatial Intelligence Bulk Release (GB) 4.1 |  |
| Modification Item 1 of 1: GEOINT BR 4.1 |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Various |  |  |  | Manufacturer Location: Robins AFB |  |  |  |
| Administrative Leadtime (in Months): 0 |  |  |  | Production Leadtime (in Months): 0 |  |  |  |
| Dates | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Contract Dates |  |  |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  |  |  |  | Installation Quantity: 0 |  |  |

Exhibit P-3a, Individual Modification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 04 / 6
## P-1 Line Item Number / Title: 846080 / DCGS-AF

## Date: February 2016

## Modification Number / Title:

$2 /$ Geoint Transformation-1 (GEOINT)

| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 12.067 | 11.192 | - | 11.192 | 12.100 | 12.878 | 15.236 | 16.754 | - | 80.227 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 12.067 | 11.192 | - | 11.192 | 12.100 | 12.878 | 15.236 | 16.754 | - | 80.227 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 12.067 | 11.192 | - | 11.192 | 12.100 | 12.878 | 15.236 | 16.754 | - | 80.227 |

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)
Initial Spares (\$ in Millions)
Gross/Weapon System Unit Cost (\$ in Millions)

## Description:

The GEOINT Transformation effort rapidly integrates new capabilities and migrates GEOINT-specific applications \& capabilities into the open architecture framework.

 advanced capability to exploit, analyze, produce, and disseminate imagery.

## Justification:



 more useful to the war-fighter while simultaneously reducing the workload on the DCGS operator.

Milestone/Development Status


| Secondary Distribution |  | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 12.067 | 11.192 | - | 11.192 | 12.100 | 12.878 | 15.236 | 16.754 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 12.067 | 11.192 | - | 11.192 | 12.100 | 12.878 | 15.236 | 16.754 |

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| Exhibit P-3a, Individual Modification: PB 2017 Air Force |  |  |  |  |  | Date: February 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6 |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  | Modification Number / Title: <br> 2 / Geoint Transformation-1 (GEOINT) |  |
| Modification Item 1 of 1: GEOINT Transformation |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Various |  |  |  | Manufacturer Location: Robins AFB |  |  |  |
| Administrative Leadtime (in Months): 0 |  |  |  | Production Leadtime (in Months): 0 |  |  |  |
| Dates | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| Contract Dates |  |  |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  |  |  |  | Installation Quantity: 6 |  |  |

Exhibit P-3a, Individual Modification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F/04/6
## P-1 Line Item Number / Title: 846080 / DCGS-AF

Date: February 2016

## Modification Number / Title:

3 / Network Infrastructure
Transformation-1

| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 51.194 | 45.415 | - | 45.415 | 34.886 | 35.541 | 21.054 | 16.726 | - | 204.816 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 51.194 | 45.415 | - | 45.415 | 34.886 | 35.541 | 21.054 | 16.726 | - | 204.816 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 51.194 | 45.415 | - | 45.415 | 34.886 | 35.541 | 21.054 | 16.726 | - | 204.816 |

(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:

 Infrastructure Transformation program adds capabilities to the baseline of the FOC weapon system already fielded and does not replace it.

Justification:



 data sharing ability in compliance with DoD direction (e.g. DI2E, VIP-C).

Milestone/Development Status


| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 51.194 | 45.415 | - | 45.415 | 34.886 | 35.541 | 21.054 | 16.726 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 51.194 | 45.415 | - | 45.415 | 34.886 | 35.541 | 21.054 | 16.726 |

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\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{9}{|l|}{Exhibit P-3a, Individual Modification: PB 2017 Air Force} \& \multicolumn{4}{|l|}{Date: February 2016} \\
\hline \multicolumn{3}{|l|}{Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6} \& \multicolumn{6}{|l|}{P-1 Line Item Number / Title: 846080 / DCGS-AF} \& \multicolumn{4}{|l|}{\begin{tabular}{l}
Modification Number / Title: \\
3 / Network Infrastructure Transformation-1
\end{tabular}} \\
\hline \multirow[t]{3}{*}{Models of Systems Affected: 0305208F

Financial Plan} \& \multicolumn{8}{|r|}{Modification Type: Reliability \& Maintainability $\quad$ Related RDT8} \& \& PEs: 03 \& 305208F \& \multirow[b]{2}{*}{To Complete} \& <br>

\hline \& Prior Years \& FY 2015 \& FY 2016 \& $$
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\text { Total Cost (\$M) } \\
\hline
\end{array}
$$
\] <br>

\hline \multicolumn{13}{|l|}{Procurement} <br>
\hline \multicolumn{13}{|l|}{Modification Item 1 of 1: Network Infrastructure} <br>
\hline \multicolumn{13}{|l|}{B Kits} <br>
\hline \multicolumn{13}{|l|}{Recurring} <br>
\hline Network Infrastructure:EQUIPMENT Group B (Active) \& -1- \& - 1- \& - 149.210 \& - 143.012 \& 1. \& - 143.012 \& - 132.826 \& - 133.161 \& - /19.739 \& - /15.626 \& - 1 \& - 1193.574 <br>
\hline Subtotal: Recurring \& -1 \& - 1- \& - 149.210 \& - /43.012 \& 1 - \& - /43.012 \& - 132.826 \& - /33.161 \& - 119.739 \& - /15.626 \& - 1 - \& - /193.574 <br>
\hline Subtotal: Network Infrastructure \& - 1- \& - 1- \& - /49.210 \& - 143.012 \& 1 - \& - /43.012 \& - 132.826 \& - 133.161 \& - /19.739 \& - /15.626 \& - 1 - \& - /193.574 <br>
\hline Subtotal: Procurement, All Modification Items \& - 1 - \& - 1 - \& - /49.210 \& - /43.012 \& -1. \& - /43.012 \& - 132.826 \& - /33.161 \& - /19.739 \& - /15.626 \& - \& - /193.574 <br>
\hline \multicolumn{13}{|l|}{Support (All Modification Items)} <br>
\hline PMA - Other Gov't Costs \& - 1 - \& - 1 \& - 10.314 \& - 10.835 \& 1. \& - 10.835 \& - 10.802 \& - 10.809 \& - 10.475 \& - 10.376 \& - 1 - \& - 13.611 <br>
\hline PMA - Contractor Services \& - 1 - \& - 1 - \& - 11.670 \& - 11.568 \& 1 - \& - 11.568 \& - 11.258 \& - 11.571 \& - 10.840 \& - 10.724 \& - 1- \& - 17.631 <br>
\hline Subtotal: Support \& - 1 \& - 1. \& - 11.984 \& - 12.403 \& 1. \& - 12.403 \& - 12.060 \& - 12.380 \& - /1.315 \& - 11.100 \& - 1 \& 111.242 <br>
\hline \multicolumn{13}{|l|}{Installation} <br>
\hline Subtotal: Installation \& - / - \& - 1- \& - 1. \& - 1- \& - 1 - \& - 1- \& - 1 - \& - 1 - \& - 1 - \& - 1 - \& - / - \& - 1- <br>
\hline \multicolumn{13}{|l|}{Total} <br>
\hline Total Cost (Procurement + Support + Installation) \& - \& - \& 51.194 \& 45.415 \& - \& 45.415 \& 34.886 \& 35.541 \& 21.054 \& 16.726 \& \& 204.816 <br>
\hline
\end{tabular}

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Exhibit P-3a, Individual Modification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 04 / 6Date: February 2016
P-1 Line Item Number / Title:
Modification Number / Title:
4 / Multi-Intelligence-1 (Multi-INT)

| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 24.000 | 23.388 | - | 23.388 | 29.168 | 15.390 | 9.295 | 15.948 | - | 117.189 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 24.000 | 23.388 | - | 23.388 | 29.168 | 15.390 | 9.295 | 15.948 | - | 117.189 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 24.000 | 23.388 | - | 23.388 | 29.168 | 15.390 | 9.295 | 15.948 | - | 117.189 |

(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:



 operators.

## Justification:


 migrating to an OA construct to improve information sharing and compliance with DoD direction.

Milestone/Development Status


| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - |  |
|  | Total Obligation Authority | - | 24.000 | 23.388 | - | 23.388 | 29.168 | 15.390 | 9.295 | 15.948 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 24.000 | 23.388 | - | 23.388 | 29.168 | 15.390 | 9.295 | 15.948 |

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Exhibit P-3a, Individual Modification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 04 / 6
## P-1 Line Item Number / Title: 846080 / DCGS-AF

Date: February 2016

## Modification Number / Title:

5/ Signal Intelligence Transformation-1 (SIGINT)

| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 7.600 | 18.057 | - | 18.057 | 7.682 | - | 15.086 | 16.736 | - | 65.161 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 7.600 | 18.057 | - | 18.057 | 7.682 | - | 15.086 | 16.736 | - | 65.161 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 7.600 | 18.057 | - | 18.057 | 7.682 | - | 15.086 | 16.736 | - | 65.161 |
| (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:

 into the open architecture framework.


 integrated and interoperable national and airborne reconnaissance capabilities in support of SIGINT processing and exploitation capability that can be tailored for all levels of conflict.

## Justification:



 DMS sites with NSANET connectivity.

Milestone/Development Status


| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 7.600 | 18.057 | - | 18.057 | 7.682 | - | 15.086 | 16.736 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 7.600 | 18.057 | - | 18.057 | 7.682 | - | 15.086 | 16.736 |

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Exhibit P-3a, Individual Modification: PB 2017 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 04 / 6
## P-1 Line Item Number / Title: 846080 / DCGS-AF

## Date: February 2016

## Modification Number / Title:

6 / DCGS Reference Imagery Transition (DRT)

| Resource Summary | Prior <br> Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 23.655 | 18.160 | - | 18.160 | 25.615 | 34.937 | 23.770 | 16.043 | - | 142.180 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 23.655 | 18.160 | - | 18.160 | 25.615 | 34.937 | 23.770 | 16.043 | - | 142.180 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 23.655 | 18.160 | - | 18.160 | 25.615 | 34.937 | 23.770 | 16.043 | - | 142.180 |

(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:



 Peregrine network of AF DCGS to allow the cloud architecture throughout several sites within the weapon system.

## Justification:


 cloud architecture for the distribution of data. The foundation will be capable of being expanded upon to store and transport future data requirements.

Milestone/Development Status


| Secondary Distribution |  | FY 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 23.655 | 18.160 | - | 18.160 | 25.615 | 34.937 | 23.770 | 16.043 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 23.655 | 18.160 | - | 18.160 | 25.615 | 34.937 | 23.770 | 16.043 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2016 <br> Aggregated Items Title: DCGS-AF |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  |  |  |  |  | $\begin{aligned} & \mathrm{Ac} \\ & \mathrm{D} \end{aligned}$ |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2015 |  |  | FY 2016 |  |  | FY 2017 Base |  |  | FY 2017 OCO |  |  | FY 2017 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) | Qty (Each) | 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 (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Support to DCGS Enterprise |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Imagery Processing | A |  | - | - | - | - | - | - - | - | - | 3.526 | - | - | 3.532 | - | - | - | - | - | 3.532 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | 3.526 |  | - | 3.532 |  | - | - |  | - | 3.532 |
| Deployable Surface Terminal | A |  | - | - | - | - | - | - 7.084 | - | - | 9.356 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 7.084 |  | - | 9.356 |  | - | - |  | - | - |  | - | - |
| Extended Tether Program | A |  | - | - | - | - | - | - 15.103 | - | - | 9.521 | - | - | 18.635 | - | - | - | - | - | 18.635 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - 15.103 |  | - | 9.521 |  | - | 18.635 |  | - | - |  | - | 18.635 |
| Wide Area Networks/ Networks | A |  | - | - | - | - | - | - 3.000 | - | - | 9.416 | - | - | 7.700 | - | - | - | - | - | 7.700 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - $\quad 3.000$ |  | - | 9.416 |  | - | 7.700 |  | - | - |  | - | 7.700 |
| Subtotal: Support to DCGS Enterprise |  |  | - | - | - | - | - | - 25.187 | - | - | 31.819 | - | - | 29.867 | - | - | - | - | - | 29.867 |
| Total |  |  | - | - | - | - |  | - 25.187 | - | $\cdot$ | 31.819 | - | - | 29.867 | - | - | - | - | $\cdot$ | 29.867 |

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| Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 Years | FY 2015 | FY 2016 | $\text { FY } 2017$ <br> Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 537.370 | 629.371 | 576.710 | - | 576.710 | 815.175 | 713.603 | 617.488 | 715.228 | - | 4,604.945 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 537.370 | 629.371 | 576.710 | - | 576.710 | 815.175 | 713.603 | 617.488 | 715.228 | - | 4,604.945 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 537.370 | 629.371 | 576.710 | - | 576.710 | 815.175 | 713.603 | 617.488 | 715.228 | - | 4,604.945 |
| (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 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 846570 / Defense Space Reconnaissance Prog. |  |  |  |  |  |  |  |
| 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 2015 | FY 2016 | $\begin{gathered} \text { FY } 2017 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2017 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 83.998 | 128.724 | - | - | - | - | - | - | - | - | 212.722 |
| Less PY Advance Procurement (\$ in Millions) |  | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 83.998 | 128.724 | - | - | - | - | - | - | - | - | 212.722 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 83.998 | 128.724 | - | - | - | - | - | - | - | $\cdot$ | 212.722 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Description: <br> Detailed information on DSRP remains classified and will be provided on a need-to-know basis. |  |  |  |  |  |  |  |  |  |  |  |  |

## Justification:

Detailed information on DSRP remains classified and will be provided on a need-to-know basis.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force
Date: February 2016
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 Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A | Item MDAP/MAIS Code(s): 199 |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2015 | FY 2016 | $\text { FY } 2017$ Base | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \end{gathered}$ | FY 2018 | FY 2019 | FY 2020 | FY 2021 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 32.813 | 59.863 | 15.784 | - | 15.784 | 17.831 | 7.525 | 7.957 | 10.245 | - | 152.018 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 32.813 | 59.863 | 15.784 | - | 15.784 | 17.831 | 7.525 | 7.957 | 10.245 | - | 152.018 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 32.813 | 59.863 | 15.784 | - | 15.784 | 17.831 | 7.525 | 7.957 | 10.245 | - | 152.018 |
| (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:

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

This line contains funding for the following Major Defense Acquisition Program (MDAP):
FAB-T Inc 1, 199
The funding for the following programs was transferred to the Space Procurement, Air Force appropriation beginning in FY17:
Family of Advanced BLoS Terminals (FAB-T)
Information Systems Security Program
NAVSTAR Global Positioning System (Space and Control Segments)
Space Situation Awareness Operations


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| Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2017 Air Force |  |  |  |  |  |  |  |  | Date: February 2016 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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) | $\begin{gathered} \text { FY } 2015 \\ (\$ M) \end{gathered}$ | $\underset{(\$ M)}{\text { FY } 2016}$ | FY 2017 Base (\$ M) | $\begin{gathered} \text { FY } 2017 \\ \text { OCO } \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { FY } 2017 \\ \text { Total } \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { FY } 2018 \\ (\$ M) \end{gathered}$ | $\underset{(\$ M)}{\text { FY } 2019}$ | $\underset{(\$ M)}{\text { FY } 2020}$ | $\begin{gathered} \text { FY } 2021 \\ (\$ M) \end{gathered}$ | To Complete (\$ M) | Total (\$M) |
| Initial |  |  |  |  |  |  |  |  |  |  |  |  |
| BA 05 - Spares and Repair Parts |  |  |  |  |  |  |  |  |  |  |  |  |
| 833010 / Air Traffic Control, Approach, and Landing System (ATCALS) | - | 5.987 | 2.775 | 4.964 | - | 4.964 | 4.705 | 2.093 | 2.430 | 4.622 | - | 27.576 |
| 861900 / C-17 AIRCRAFT (IF) | - | 1.069 | 1.100 | - | - | - | - | - | - | - | - | 2.169 |
| 834190 / Combat Training Ranges | - | 0.900 | 0.101 | 5.930 | - | 5.930 | 6.868 | 0.674 | 0.686 | 0.698 | - | 15.857 |
| 845420 / Expeditionary Airfield Basing Assets | - | 1.462 | 1.807 | 2.026 | - | 2.026 | 1.941 | 2.188 | 2.227 | 2.266 | - | 13.917 |
| 835070 / Information Systems Security Program | - | 4.567 | 1.987 | 1.687 | - | 1.687 | 2.563 | 0.935 | 0.952 | 0.969 | - | 13.660 |
| 836780 / MILSATCOM Terminals [199] | - | 12.267 | 0.054 | - | - | - | - | - | - | - | - | 12.321 |
| 836730 / NAVSTAR Global <br> Positioning System (Space and Control Segments) | - | 0.309 | 0.533 | - | - | - | - | - | - | - | - | 0.842 |
| 838010 / NCMC - TW/AA System | - | 0.901 | 0.877 | 0.458 | - | 0.458 | 0.822 | 0.838 | 0.851 | 0.866 | - | 5.613 |
| 836770 / Spacelift Range System (SPACE) | - | 3.136 | - | - | - | - | - | - | - | - | - | 3.136 |
| 833010 / Space Situation Awareness Operations | - | - | 4.868 | - | - | - | - | - | - | - | - | 4.868 |
| 833070 / Weather Observation/ Forecast | - | 1.605 | 0.278 | 0.719 | - | 0.719 | 0.932 | 0.797 | 0.811 | 0.824 | - | 5.966 |
| 861900 / Worldwide Joint Strategic Communications | - | 0.610 | 1.047 | - | - | - | - | - | - | - | - | 1.657 |
| 861900 / Family of Advanced BLoS Terminals (FAB-T) <br> Terminals (FAB-T) | - | - | 44.436 | - | - | - | - | - | - | - | - | 44.436 |
| Subtotal: Initial | - | 32.813 | 59.863 | 15.784 | - | 15.784 | 17.831 | 7.525 | 7.957 | 10.245 | - | 152.018 |
| Total Cost (Initial + Replenishment) | - | 32.813 | 59.863 | 15.784 | - | 15.784 | 17.831 | 7.525 | 7.957 | 10.245 | - | 152.018 |

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[^0]:    Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

[^1]:    $\left.{ }^{( } \dagger\right)$ indicates the presence of a $P-5 a$

[^2]:    Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

[^3]:    Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

[^4]:    $\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

[^5]:    ${ }^{(t)}$ indicates the presence of a P-21

[^6]:    Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

[^7]:    ${ }^{(\dagger)}$ indicates the presence of a P-5a

[^8]:    $\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

[^9]:    

