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


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

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UNCLASSIFIEDAir Force • Budget Estimates FY 2022 • Procurement
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## Appropriation Language <br> Fiscal Year (FY) 2022 Budget Estimates <br> Missile Procurement, Air Force

For construction, procurement, and modification of missiles, rockets, and related equipment, including spare parts and accessories therefor, ground handling equipment, and training devices; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents, transportation of things, and overseas contingency operations, \$2,669,811,000 to remain available for obligations until September 30, 2024.

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## Exhibit footnotes for FY 2020 actuals and FY 2021 Enacted:

a. FY 2020 Actuals: "Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136)."
b. FY 2021 Enacted (for every appropriation except O\&M, Army, O\&M, Navy, and O\&M, AF): "Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260)."
c. FY 2021 Enacted (for O\&M, Army, O\&M, Navy, and O\&M, AF): "Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260) and funds provided by the Congress as OCO to Base Requirements in O\&M Army, O\&M Navy, and O\&M AF."

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

Total Obligational Authority
05 May 2021
(Dollars in Thousands)

Appropriation: Missile Procurement, Air Force

| Budget Activity | FY 2020 Actual* | $\begin{gathered} \text { FY } 2021 \\ \text { Enacted** } \end{gathered}$ | FY 2022 Request |
| :---: | :---: | :---: | :---: |
| 01. Ballistic Missiles | 65,888 | 73,474 | 68,688 |
| 02. Other Missiles | 1,721,025 | 1,492,458 | 1,682,579 |
| 03. Modification of Inservice Missiles | 138,006 | 177,809 | 236,148 |
| 04. Spares and Repair Parts | 72,141 | 98,246 | 81,804 |
| 05. Other Support | 780,498 | 523,966 | 600,592 |
| Total Missile Procurement, Air Force | 2,777,558 | 2,365,953 | 2,669,811 |

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

Appropriation: 3020F Missile Procurement, Air Force

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

Budget Activity 01: Ballistic Missiles

Missile Replacement Equipment - Ballistic

1 Missile Replacement Eq-Ballistic A
Ballistic Missiles
2 Ground Based Strategic Deterrent

## Total Ballistic Missiles

Budget Activity 02: Other Missiles

Tactical
3 Replac Equip \& War Consumables
4 AGM-183A Air-Launched Rapid Response Weapon
5 Joint Air-To-Ground Munition
6 Joint Air-Surface Standoff Missile
7 LRASM0
8 Sidewinder (AIM-9X)
9 AMRAAM
10 Predator Hellfire Missile
11 Small Diameter Bomb
12 SMALL DIAMETER BOMB II
390482,507


$$
\begin{gathered}
10,895 \\
\hdashline 68,688
\end{gathered}
$$

A

| A | 482,507 | 376 | 500,009 | 525 | 710,550 | U |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  | 5 | 19,800 |  |  |  |  |
| A | 444 | 155,289 | 331 | 164,769 | 243 | 107,587 | U |
| A | 220 | 311,730 | 268 | 313,223 | 168 | 214,002 | U |
| A | 3859 | 299,631 | 4517 | 183,549 | 1176 | 103,684 | U |
| A | 7078 | 273,288 | 2462 | 95,827 | 998 | 82,819 | U |
| B | 727 | 183,279 | 743 | 209,972 | 985 | 294,649 | U |

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

Appropriation: 3020F Missile Procurement, Air Force

| Line | Ident | FY 2020 Actual* |  | $\begin{aligned} & \text { FY } 2021 \\ & \text { Enacted** } \end{aligned}$ |  | FY 2022 <br> Request |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No Item Nomenclature | Code | Quantity | Cost | Quantity | Cost | Quantity | Cost |
| Industrial Facilities |  |  |  |  |  |  |  |
| 13 Industr'l Preparedns/Pol Prevention | A |  | 801 |  | 814 |  | 757 |
| Total Other Missiles |  |  | 1,025 |  | , 458 |  | , 579 |

Budget Activity 03: Modification of Inservice Missiles

Class IV

| 14 Spectrum funds | A | -3 |  |  |  | 40 |  | U |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 ICBM FUZE MOD <br> Less: Advance Procurement (PY) | A | 6 | $(5,000)$ | 20 |  |  | $\begin{aligned} & (57,113) \\ & (-4,100) \end{aligned}$ | U |
| Less: Advance Procurement (PY) |  |  | 5,000 |  |  |  | 53,013 |  |
| 16 ICBM FUZE MOD |  |  |  |  |  |  |  |  |
| Advance Procurement (CY) |  |  | 14,497 |  | 43,450 |  | 47,757 | U |
| C (FY 2020 for FY 2023) (M) |  |  | $(14,497)$ |  |  |  |  |  |
| C (FY 2021 for FY 2024) (M) |  |  |  |  | $(43,450)$ |  |  |  |
| C (FY 2022 for FY 2025) (M) |  |  |  |  |  |  | $(47,757)$ |  |
| 17 MM III Modifications | A |  | 49,705 |  | 81,137 |  | 88,579 | U |
| 18 AGM-65D Maverick | A |  | 294 |  | 298 |  |  | U |
| 19 Air Launch Cruise Missile (ALCM) | A |  | 68,513 |  | 52,924 |  | 46,799 | U |
| Total Modification of Inservice Missiles |  |  | 138,006 |  | 177,809 |  | 236,148 |  |
| Budget Activity 04: Spares and Repair Parts |  |  |  |  |  |  |  |  |
| Missile Spares and Repair Parts |  |  |  |  |  |  |  |  |
| 20 Msl Sprs/Repair Parts (Initial) | A |  | 1,910 |  | 13,575 |  | 14,212 | U |
| 21 Msl Sprs/Repair Parts (Replen) | A |  | 70,231 |  | 84,671 |  | 63,547 | U |

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

Appropriation: 3020F Missile Procurement, Air Force


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

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 01 | 03 | 00099L | Missile Replacement Eq-Ballistic... | ..Volume 1-1 |
| 2 | 01 | 04 | MGBSDO | Ground Based Strategic Deterrent. | Volume 1-11 |
| Appropriation 3020F: Missile Procurement, Air Force |  |  |  |  |  |
| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| 3 | 02 | 02 | 222000 | Replac Equip \& War Consumables....... | .Volume 1-15 |
| 4 | 02 | 02 | ARRW00 | AGM-183A Air-Launched Rapid Response Weapon.. | .Volume 1-19 |
| 5 | 02 | 02 | JAGM00 | Joint Air-To-Ground Munition.. | ..Volume 1-27 |
| 6 | 02 | 02 | JASSM0 | Joint Air-Surface Standoff Missile.. | ...Volume 1-29 |
| 7 | 02 | 02 | LRASM0 | LRASMO... | Volume 1-41 |
| 8 | 02 | 02 | M09HAI | Sidewinder (AIM-9X).. | ...Volume 1-51 |
| 9 | 02 | 02 | MAMRAO | AMRAAM. | .Volume 1-69 |
| 10 | 02 | 02 | PRDTA2 | Predator Hellfire Missile............................ | ...Volume 1-79 |

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Appropriation 3020F: Missile Procurement, Air Force

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | 02 | 02 | SDB000 | Small Diameter Bomb. | Volume 1-89 |
| 12 | 02 | 02 | SDB002 | SMALL DIAMETER BOMB II. | .Volume 1-99 |
| 13 | 02 | 05 | 000042 | Industr'I Preparedns/Pol Prevention. | Volume 1-111 |
| Appropriation 3020F: Missile Procurement, Air Force |  |  |  |  |  |
| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| 14 | 03 | 01 | 21SPEC | Spectrum Funds. | ..Volume 1-113 |
| 15 | 03 | 01 | M30FLH | ICBM FUZE MOD. | . Volume 1-115 |
| 16 | 03 | 01 | M30FLH | ICBM FUZE MOD, Advance Procurement.. | . Volume 1-123 |
| 17 | 03 | 01 | M30MLG | MM III Modifications. | . Volume 1-127 |
| 18 | 03 | 01 | M65DAG | AGM-65D Maverick. | ..Volume 1-139 |
| 19 | 03 | 01 | MALCBG | Air Launch Cruise Missile (ALCM). | ..Volume 1-141 |

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Appropriation 3020F: Missile Procurement, Air Force

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | 04 | 10 | 00098A | MsI Sprs/Repair Parts (Initial). | Volume 1-155 |
| 21 | 04 | 10 | 00098K | Msl Sprs/Repair Parts (Replen)... | Volume 1-159 |
| Appropriation 3020F: Missile Procurement, Air Force |  |  |  |  |  |
| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| 23 | 05 | 01 | CAADJS | Cancelled Accounts. | Volume 1-163 |
| 25 | 05 | 04 | MSPPRG | Special Update Programs... | Volume 1-165 |

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

| Line Item Title | Line Item Number | Line \# | BA | BSA Page |
| :---: | :---: | :---: | :---: | :---: |
| AGM-183A Air-Launched Rapid Response Weapon | ARRW00 | 4 | 02 | 02...................Volume 1-19 |
| AGM-65D Maverick | M65DAG | 18 | 03 | 01.................Volume 1-139 |
| AMRAAM | MAMRA0 | 9 | 02 | 02...................Volume 1-69 |
| Air Launch Cruise Missile (ALCM) | MALCBG | 19 | 03 | 01.................Volume 1-141 |
| Cancelled Accounts | CAADJS | 23 | 05 | 01.................Volume 1-163 |
| Ground Based Strategic Deterrent | MGBSD0 | 2 | 01 | 04.................. Volume 1-11 |
| ICBM FUZE MOD | M30FLH | 15 | 03 | 01................ Volume 1-115 |
| ICBM FUZE MOD, Advance Procurement | M30FLH | 16 | 03 | 01................ Volume 1-123 |
| Industr'I Preparedns/Pol Prevention | 000042 | 13 | 02 | 05.................Volume 1-111 |
| Joint Air-Surface Standoff Missile | JASSMO | 6 | 02 | 02..................V.Volume 1-29 |
| Joint Air-To-Ground Munition | JAGM00 | 5 | 02 | 02...................Volume 1-27 |
| LRASM0 | LRASM0 | 7 | 02 | 02..................Volume 1-41 |
| MM III Modifications | M30MLG | 17 | 03 | 01................ Volume 1-127 |
| Missile Replacement Eq-Ballistic | 00099L | 1 | 01 | 03....................Volume 1-1 |
| Msl Sprs/Repair Parts (Initial) | 00098A | 20 | 04 | 10................. Volume 1-155 |
| Msl Sprs/Repair Parts (Replen) | 00098K | 21 | 04 | 10.................Volume 1-159 |
| Predator Hellfire Missile | PRDTA2 | 10 | 02 | 02.................. Volume 1-79 |

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| Line Item Title | Line Item Number | Line \# | BA | BSA | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Replac Equip \& War Consumables | 222000 | 3 | 02 | 02. | Volume 1-15 |
| SMALL DIAMETER BOMB II | SDB002 | 12 | 02 |  | Volume 1-99 |
| Sidewinder (AIM-9X) | M09HAI | 8 | 02 | 02. | . Volume 1-51 |
| Small Diameter Bomb | SDB000 | 11 | 02 |  | .Volume 1-89 |
| Special Update Programs | MSPPRG | 25 | 05 | 04... | .Volume 1-165 |
| Spectrum Funds | 21SPEC | 14 | 03 | 01... | .Volume 1-113 |

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(Listing by Model)

## Lookup Matrix by Model

| Model: | LGM-30G |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | MM III Modifications |  |
| Item Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 5910 | MINUTEMAN MEECN MODIFICATION |  | No |
|  | 5921 | MM LCC Block Upgrades |  | No |
|  | 5928 | T-9 Launch Facility Trainer Conversion (T-9) |  | No |
|  | 5942 | LGM-30G Launch Control Center Break-In-Kit (LCCB) |  | No |
|  | 5947 | A/D Switch Replacement |  | No |
|  | 5948 | CMPT upgrade |  | No |
|  | 5949 | Fast Rising B-Plug Service Extension Program (FRBP SLEP) |  | No |
|  | 99999X | Low Cost Modifications |  | No |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
|  | 5915 | ICBM Fuze Modernization |  | No |
|  | 5916 | ICBM Cryptography Upgrade Increment II |  | No |
|  | 5925 | MM III Auto Switching Unit (ASU) |  | No |
|  | 5932 | LGM-30G Remote Visual Assessment Phase II (RVA II) |  | No |
| Model: AGM-86B |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Item Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |

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| AGM-86B |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Air Launch Cruise Missile (ALCM) |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| _0468 | AGM-86B Low Cost Mods |  | No |
| 860011 | Support Equipment |  | No |
| 860101 | AGM-86B Service Life Extension Program 1 |  | No |
| 860103 | Warhead Arming Device (WAD) |  | No |
| 860105 | Guided Missile Flight Controller (GMFC) |  | No |
| 860106 | W-10 Cable |  | No |
| 860107 | Fuze Assembly |  | No |
| 860109 | Flight Data Transmitter |  | No |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
| 860009 | AGM-86B CALC | M/ALCM Test Instrumentation Kit | No |
| 860104 | Rotary Switch (RS) |  | No |
| 860108 | Inertial Navigatio | on Element (INE) | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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

## Funding (\$ M)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit P-40a |  |  |  |  |  |  |  |  |  |  |
| MINUTEMAN MEECN MODIFICATION | 129.384 | - | - | 2.674 | - | 2.674 | - | - | - | - |
| MM LCC Block Upgrades | 2.311 | 14.943 | 26.627 | 2.136 | - | 2.136 | - | - | - | - |
| T-9 Launch Facility Trainer Conversion (T-9) | 33.286 | 2.230 | 1.801 | - | - | - | - | - | - | - |
| LGM-30G Launch Control Center Break-In-Kit (LCCB) | 0.226 | - | - | - | - | - | - | - | - | - |
| A/D Switch Replacement | - | - | - | 4.534 | - | 4.534 | - | - | - | - |
| CMPT upgrade | - | 0.258 | - | - | - | - | - | - | - | - |
| Fast Rising B-Plug Service Extension Program (FRBP SLEP) | 0.000 | - | - | - | - | - | - | - | - | - |
| Low Cost Modifications | 12.140 | 0.542 | 0.160 | 4.899 | - | 4.899 | - | - | - | - |
| AGM-86B Low Cost Mods | 1.798 | 0.298 | 0.100 | 0.100 | - | 0.100 | - | - | - | - |
| Support Equipment | 0.190 | 19.691 | 9.658 | 4.986 | - | 4.986 | - | - | - | - |
| AGM-86B Service Life Extension Program 1 | 9.613 | 0.894 | 3.588 | 3.648 | - | 3.648 | - | - | - | - |
| Warhead Arming Device (WAD) | 7.501 | 0.006 | 0.009 | 0.010 | - | 0.010 | - | - | - | - |
| Guided Missile Flight Controller (GMFC) | 1.386 | 0.009 | 3.660 | 4.200 | - | 4.200 | - | - | - | - |
| W-10 Cable | 0.646 | 0.644 | 0.749 | 0.371 | - | 0.371 | - | - | - | - |
| Fuze Assembly | 0.000 | 3.178 | 4.591 | 4.711 | - | 4.711 | - | - | - | - |
| Flight Data Transmitter | - | - | - | 3.400 | - | 3.400 | - | - | - | - |
| Exhibit P-3a |  |  |  |  |  |  |  |  |  |  |
| ICBM Fuze Modernization | 55.719 | 19.497 | 43.450 | 100.770 | 0.000 | 100.770 | - | - | - | - |
| ICBM Cryptography Upgrade Increment II | 90.281 | 26.288 | 33.337 | 10.782 | 0.000 | 10.782 | - | - | - | - |
| MM III Auto Switching Unit (ASU) | 0.247 | 1.025 | 1.791 | 8.964 | 0.000 | 8.964 | - | - | - | - |

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Exhibit P-1M, Procurement Programs - Modification Summary

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

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LGM-30G Remote Visual Assessment Phase II (RVA II) | 3.400 | 4.419 | 17.421 | 54.590 | 0.000 | 54.590 | - | - | - | - |
| AGM-86B CALCM/ALCM Test Instrumentation Kit | 109.537 | 10.433 | 13.654 | 10.898 | 0.000 | 10.898 | - | - | - | - |
| Rotary Switch (RS) | 13.476 | 8.262 | 6.090 | 6.260 | 0.000 | 6.260 | - | - | - | - |
| Inertial Navigation Element (INE) | 0.000 | 25.098 | 10.825 | 8.215 | 0.000 | 8.215 | - | - | - | - |
| Totals (Total Obligation Authority) |  |  |  |  |  |  |  |  |  |  |
| Total Obligation Authority | 471.141 | 137.715 | 177.511 | 236.148 | 0.000 | 236.148 | 0.000 | 0.000 | 0.000 | 0.000 |

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## ACRONYMS

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


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


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

## BASE / ORGANIZATIONAL ACRONYMNS

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


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

## UNCLASSIFIED

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

## CONTRACTED BY ACRONYMNS

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

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## UNCLASSIFIED

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

## IDENTIFICATION CODES

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

UNCLASSIFIED

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 3: Missile |
| Replacement Equipment - Ballistic |

## P-1 Line Item Number / Title:

00099L / Missile Replacement Eq-Ballistic Replacement Equipment - Ballistic

Program Elements for Code B Items: N/A
Other Related Program Elements: 0101213F
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 65.888 | 73.474 | 57.793 | - | 57.793 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 65.888 | 73.474 | 57.793 | - | 57.793 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 65.888 | 73.474 | 57.793 | - | 57.793 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | 0.257 | - | 0.257 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This program funds replacement of organizational and intermediate level support equipment for all out-of-production ballistic missile systems. Equipment procured is used for missile weapon systems maintenance and testing at organizational/intermediate (base/field) launch control facilities, as well as missile testing facilities. Equipment and qualified minor construction costs related to depot activation. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Related Research, Development, Test \& Evaluation, Air Force funding is contained in PE 0101213F.

- Pendulous Integrating Gyroscopic Accelerometer/G6B4 Build Equipment Replacement (PIGA/G6B4 BER) program replaces and updates obsolete build and test equipment.
- Ballistic Missile Items Less Than 5 Million: Support Equipment Less Than 5M procures low cost new, modified or replacement support equipment, to include facilities and other equipment to support programmed depot maintenance capability activation. This also includes efforts required to prepare for re-location of T-41 trainer from Malmstrom AFB to Vandenberg AFB.
- MM Power Panels (PPM): Minuteman Power Panels Mod (PPM) replaces obsolete and unsupportable power distribution panels within Launch Control Centers and Launch Facilities. The LGM-30G Power Panels Modification modernizes the antiquated power distribution system to improve reliability and sustainability at each of the three wings: Malmstrom, Minot, and FE Warren. Installation of the power panels requires extensive demolition of existing components, relocation of all electrical equipment and installation of the new equipment. Effort also includes technical data and installation necessary for full operation capability of the trainer power panel modification to support PPM.
- Payload Transporter Replacement (PTR): Provides nuclear certified tractor and trailer to emplace, extract, and transport the reentry system, the Propulsion System Rocket Engine, and the guidance systems. Replaces current payload transporter to meet USSTRATCOM security requirements and addresses supportability issues. Required to sustain Minuteman III operations through fielding of Ground Based Strategic Deterrent (GBSD) in 2036.
- Performance Assessment Data System Communication Equipment Interface Unit (PADS CEIU): Performance Assessment Data System (PADS) is used to collect and analyze Missile Guidance Computer (MGC) data, Launch Facility (LF) faults and anomalies, as well as LF security and Environmental Control System (ECS) data. PADS is a critical MM III legacy data system, developed in the late 1970s and redesigned in 1996-1999, using commercial software. This program addresses PADS reliability, by updating software to meet Air Force software security requirements and to conform to the Air Force standard desktop configuration. PADS Communications Equipment Interface Unit (CEIU) is used to transmit MM III Inertial Measurement Unit (IMU) Performance Data (IPD) from the Launch Control Center (LCC) to the

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

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 3: Missile <br> P-1 Line Item Number / Title: <br> 00099L / Missile Replacement Eq-Ballistic

Replacement Equipment - Ballistic
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0101213F

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


 the end of FY24. This is a FY22 Procurement New Start.



 Strategic Deterrent (GBSD) in 2036.

The FY2022 funding request was reduced by $\$ 11.634$ million to account for the availability of prior year execution balances

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

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 3: Missile |
| Replacement Equipment - Ballistic |

## P-1 Line Item Number / Title:

00099L / Missile Replacement Eq-Ballistic
ID Code (A=Serice Ready, B=Not Service Ready: A

Program Elements for Code B Items: N/A
Other Related Program Elements: 0101213F
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { C } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | Ballistic Missile Items Less Than \$5 Million |  |  |  | 1 | - 14.578 | - 13.606 | - 13.477 | - 1- | - 13.477 |
| P-40a | MM Power Panels (PPM) |  |  |  | 1 | - 13.817 | 1 | - 1 | - 1 - | - 1 |
| P-40a | Payload Transporter Replacement (PTR) |  |  |  | 1 | - /18.625 | - 139.741 | - 144.216 | - 1 - | - / 44.216 |
| P-40a | Perf Assess Data Sys Comm Equip Interface Unit (PADS CEIU II) |  |  |  | 1 | - 10.000 | - 10.000 | - 17.900 | - 1 - | - 17.900 |
| P-40a | Reentry Field Support Equipment (RFSE) |  |  |  | 1 | - 10.561 | - 1 | 1 | - 1 - | - 1 |
| P-40a | Transporter Erector Replacement Program (TERP) |  |  |  | 1 | - 138.307 | - 130.127 | - 12.200 | - 1 - | - 12.200 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 | - 165.888 | - 173.474 | - 157.793 | - 1 - | 157.793 |

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

## Justification:

The program, Missile Replacement Eq-Ballistic P-40A Category LGM-30G Item Performance Assessment Data System communication Equipment Interface Unit (PADS CEIU), is a new start.
FY22 funding provides replacement support equipment items for an aging inventory of equipment which has become increasingly costly to maintain. These items will increase ballistic missile system reliability and maintainability by providing state-of-the-art maintenance repair and testing capability. The items are required to bridge the gap to the National Defense Strategy and National Military Strategy directed nuclear force modernization activities. Requirements are jointly determined by Headquarters United States Air Force (HQ USAF), Air Force Materiel Command (AFMC) and Air Force Global Strike Command (AFGSC) and are based on established allowance standards.

Items requested in FY22 are displayed on the attached P-40A. Items procured during execution may change based on critical equipment needed to support current and emerging Air Force mission requirements.

- Pendulous Integrating Gyroscopic Accelerometer/G6B4 Build Equipment Replacement (PIGA/G6B4 BER): PIGA/G6B4 BER program replaces unsustainable equipment due to obsolescence issues affecting the ability to test and build the PIGA and G6B4.
- Ballistic Missile Items Less Than 5 Million: Procured low cost support equipment required to sustain Minuteman III operations through fielding of the Ground Based Strategic Deterrent (GBSD).
- Payload Transporter Replacement (PTR): FY22 funding will enable the award of a contract option to procure 6 additional units.
- Performance Assessment Data System Communication Equipment Interface Unit (PADS CEIU): This is an FY22 production new start. FY22 funding will enable the award of a production contract for 29 units.
- Transporter Erector Replacement Program (TERP): FY22 funds will support the fielding of TERP assets.


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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Aggregated Items Title: MM Power Panels (PPM) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{aligned} & \text { MDAPI } \\ & \text { MAIS } \\ & \text { code } \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | 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) |
| LGM-30G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LGM-30G Minuteman III Power Panels (PPM) | A |  | - | - | - | - | - | 3.817 | - |  | - | - | - | - | - | - | - | - | - | - |
| Subtotal: LGM-30G |  |  | - | - | - | - | - | 3.817 | - |  | - | - | - | - | - | - | - | $\cdot$ | - | - |
| Total |  |  |  | - | - | - |  | 3.817 | - |  | - | - | - |  | - | - |  | - | - | - |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Description: The LGM-30G Power Panels Modification (PPM) modernized the antiquated power distribution system to improve reliability and sustainability at each of the three wings: Malmstrom, Minot, and FE Warren. Installation of the power panels required extensive demolition of existing components, relocation of all electrical equipment and installation of the new equipment. Effort also included technical data and installation necessary for full operation capability of the trainer power panel modification to support PPM. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic |  |  |  |  |  |  |  | Aggregated Items Title: <br> Payload Transporter Replacement (PTR) |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | Prior Years |  |  | FY 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 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) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <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) |
| LGM-30G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LGM-30G Payload <br> Transporter <br> Replacement (PTR) | A |  | - | - | - | 9.313 |  | 218.625 | 7.948 | 5 | 39.741 | 7.369 | 6 | 44.216 | - | - | - | 7.369 | 6 | 44.21 |
| Subtotal: LGM-30G |  |  |  |  |  | - |  | 18.625 | - |  | 39.741 |  | - | 44.216 |  |  |  |  |  | 44.216 |
| Total |  |  | - |  |  | - |  | 18.625 | - | - | 39.741 | - | - | 44.216 | - | - |  | $\cdot$ | - | 44.216 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> Description <br> Provides nuclear certified tractor and trailer to emplace, extract and transport the reentry system, Propulsion System Rocket Engine, and guidance systems. Replaces current payload transporter to meet United States Strategic Command (USSTRATCOM) security requirements and addresses supportability issues. PTR will update existing drawings, specifications, and technical orders to eliminate parts obsolescence and address the intended usage through fielding of Ground Based Strategic Deterrent (GBSD). <br> Justification: FY22 funds will be used to produce six Payload Transporter Replacement units and associated PMA efforts. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force ${ }^{\text {a }}$ ( ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Aggregated Items Title: <br> Perf Assess Data Sys Comm Equip <br> Interface Unit (PADS CEIU II) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 Total |  |  |
| Item Number / Title [DODIC] | ID <br> CD | $\begin{array}{\|c\|c\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | $\underset{(\$ M)}{\text { Unit Cost }}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | $\underset{(\$ M)}{\text { Unit Cost }}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| LGM-30G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Performance Assessment Data System Comm Equipment Interface Unit (PADS CEIU II) | A |  |  |  |  |  |  | 0.000 | - |  | 0.000 | 0.272 | 29 | 7.900 | - |  |  | 0.272 | 29 | 7.900 |
| Subtotal: LGM-30G |  |  |  |  |  |  |  | 0.000 |  |  | 0.000 |  |  | 7.900 |  |  |  |  |  | \%00 |
| Total |  |  |  |  |  |  |  | 0.000 |  |  | 0.000 |  |  | 7.900 |  |  |  |  |  | 7.900 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> This program, Missile Replacement Eq-Ballistic P-40A Category LGM-30G Item Performance Assessment Data System Communication Equipment Interface Unit (PADS CEIU), is a new start. <br>  <br>  requirements and to conform to the Air Force standard desktop configuration. <br>  <br>  will produce 29 updated CEIUs and will upgrade 48 LCCs with fiber optics. <br> Justification: This is an FY22 production new start. FY22 funding enables the award of a production contract to procure 29 units. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic |  |  |  |  |  |  |  | Aggregated Items Title: <br> Reentry Field Support Equipment (RFSE) |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & C D \end{aligned}$ | 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 <br> (\$ 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) | $\underset{(\text { Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LGM-30G Reentry Field Support Equipment (RFSE) | A |  | - | - | - | - | - | 0.561 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: LGM-30G |  |  | - | - | - | - | - | - 0.561 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | - | - 0.561 | - | - | - | - | - | - | - | - | - | - | - | - |

## Remarks:



 procurement action fulfilled the requirements of Air Force Global Strike Command.
 2030 and beyond.

Justification: This program will be completed in FY21.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic |  |  |  |  |  |  |  |  | Aggregated Items Title: <br> Transporter Erector Replacement Program (TERP) |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2020 |  |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 Total |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ |  | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| LGM-30G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LGM-30G Transporter Erector Replacement Program (TERP) | A |  | - | - | - | 5.472 |  | 7 | 38.307 | 3.766 | 8 | 30.127 | - | - | 2.200 | - | - | - | - | - | 2.200 |
| Subtotal: LGM-30G |  |  | - | - | - | - | - | - | 38.307 | - | - | 30.127 | - | - | 2.200 | - | - | - | - | - | 2.200 |
| Total |  |  | - | - | - | - | - | - | 38.307 | - | - | 30.127 | - | - | 2.200 | - | - | - | $\cdot$ | - | 2.200 |

## Remarks:

 specifications and technical orders to eliminate parts obsolescence and address the intended usage through fielding of Ground Based Strategic Deterrent (GBSD),

Justification: FY22 funding will be used to support continued fielding of procured TERP assets

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## Appropriation / Budget Activity / Budget Sub Activity:

3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 4: Ballistic Missiles
ID Code (A=Service Ready, B=Not Service Ready): B $\quad$ 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 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 10.895 | - | 10.895 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 10.895 | - | 10.895 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 10.895 | - | 10.895 | - | - | - | - | - | - |
| (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 Ground Based Strategic Deterrent (GBSD) program will design, develop, produce and deploy a replacement for the current Minuteman III (MM III) Intercontinental Ballistic Missile (ICBM) weapon system in order to maintain a safe, secure, reliable, and effective nuclear deterrent. The GBSD program will deliver a fully integrated weapon system beginning in Fiscal Year 2029 to lower lifecycle costs and to close key capability gaps and vulnerabilities identified in the GBSD Capabilities Based Assessment, GBSD Capabilities Development Document, and the GBSD Analysis of Alternatives. GBSD will also mitigate ground based deterrent degradation due to MM III component age-out and attrition.

The Air Force is developing a new Aerospace Vehicle Equipment (AVE) (flight system) for the GBSD weapon system to replace the MM III flight system. The GBSD AVE will consist of a boost propulsion subsystem, a post-boost propulsion subsystem, a guidance, navigation, and control (GN\&C) subsystem, and a re-entry subsystem. The boost propulsion subsystem will be comprised of a 3 -stage solid rocket booster. The Air Force is procuring the 3 -stage rocket booster, interstage structures, and all associated test and support equipment. The post-boost propulsion subsystem will be comprised of a liquid-fueled rocket propulsion system integrated into a post-boost attitude control module (PBACM) structure, as well as all guidance, navigation, and control components. The Air Force is procuring the liquid-fueled rocket propulsion system, post-boost attitude control module structure, the Guidance, Navigation, and Control (GN\&C) system, and all the associated test and support equipment. The Air Force will also procure reentry systems including the payload deployment module and shroud.

The Air Force will convert MM III Launch Centers (LC) and Launch Facilities (LF) to the GBSD weapon system configuration across three operational wings. The weapons system components required as part of the overall conversion are integral for the successful deployment of the weapon system.

The GBSD program will include prime contractor development of applicable support equipment, data, flight test hardware and infrastructure, and training systems while examining and mitigating risk during the MM III to GBSD transition. The support equipment may include, but is not limited to, the Engineering Units for the Transporter Erector, Payload Transporter, Missile Transporter, Post Boost Altitude Control Module Transporter, Command and Control, and Secondary Launch Platform- Airborne. This program includes any needed nuclear surety and certification and system vulnerability assessments. Additionally, the GBSD program funds all required developmental and operational test and evaluation activities to meet initial and full operational capability milestones including, but not limited to, developing, improving and modernizing test capabilities essential to reaching those milestones when existing test capabilities are inadequate or non-existent.

KS-75 Life of Type Buy (LOTB)
The Air Force is developing a common cryptographic device, and the supporting equipment, used in multiple subsystems and/or networks throughout the GBSD weapons system to reduce risk and enable the future GBSD Concept of Operations. The Air Force has partnered with the National Nuclear Security Administration (NNSA) via Sandia National Laboratories (SNL) as the Technical Design Agent responsible for

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

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 4: Ballistic

P-1 Line Item Number / Title:
MGBSDO / Ground Based Strategic Deterrent
Missiles
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A

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




Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
Funding for this exhibit contained in PE 0101233F.

*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 is a new start.
KS-75 LOTB





| Exhibit P-5, Cost | Analysi | PB 2 | 2 Air | orce |  |  |  |  |  |  |  |  |  | Date: | May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / B 3020F / 01 / 4 | udget A | tivity | Budge | Sub Ac |  | $\begin{aligned} & \text { P-1 L } \\ & \text { MGB } \end{aligned}$ | ine Item SD0 / G | Num und | / Title ed Stra | tegic | rrent |  |  | $\text { tem } \mathrm{N}$ Grouns | Number / nd Based | Title [DOD trategic D | ODIC]: <br> Deterren |  |
| ID Code (A=Service Read | y, B=Not Servi | Ready) |  |  |  |  |  |  |  | AP/MAIS | Code: |  |  |  |  |  |  |  |
|  | Resource | Summ |  |  |  | Prior Yea |  | FY |  | FY | 021 | FY | 2022 Bas |  | FY 2022 | OCO | FY 202 | Total |
| Procurement Quantity (Un | s in Each) |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System C | st (\$ in Million |  |  |  |  |  | - |  | 0.000 |  | 0.00 |  |  | 895 |  | - |  | 10.895 |
| Less PY Advance Procure | ment (\$ in Mi |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ | Milions) |  |  |  |  |  | - |  | 0.000 |  | 0.00 |  |  | 895 |  | - |  | 10.895 |
| Plus CY Advance Procure | ment (\$ in Mil |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authorit | (\$ in Millions) |  |  |  |  |  | - |  | 0.000 |  | 0.00 |  |  | 895 |  | - |  | 10.895 |
| (T | e following | esource | mmary ro | s are for info | national | purposes only | The corres | nding b | et request | are docum | ted elsewh |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  |  |
| Gross/Weapon System U | nit Cost (\$ in | Ilions) |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals | in this Exhibit | P-5 may | be exact | or sum exactiy | due to ro | ounding. |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | ior Yea |  |  | Y 2020 |  |  | FY 202 |  |  | 2022 Bas |  |  | 2022 | OCO |  | FY 2022 To |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | Unit Cost (S 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) |
| Hardware - GBSD Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ground Based Strategic Deterrent (GBSD) | - | - | - | - | - | 0.000 | - | - | 0.000 | 10.895 | 1 | 10.895 | - |  | - - | 10.895 | 5 | 10.895 |
| Subtotal: Non Recurring Cost | - | - | - |  |  | 0.000 | - |  | 0.000 | - |  | 10.895 |  |  | - - |  | - | 10.895 |
| Subtotal: Hardware - GBSD Cost | - | - | - |  |  | 0.000 | - | - | 0.000 | - | - | 10.895 | - |  | - - |  | - | 10.895 |
| Gross/Weapon System Cost |  |  |  |  |  | 0.000 | - |  | 0.000 | - |  | 10.895 | - |  | - - |  | - | 10.895 |

Remarks:
Overall quantity is dependent upon unit reliability data currently being collected and analyzed. Quantities will be known in 2nd Qtr FY22.

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

## Appropriation / Budget Activity / Budget Sub Activity:

3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical

Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
222000 / Replac Equip \& War Consumables

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

| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2022$ <br> Total | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 4.500 | 4.495 | 7.681 | - | 7.681 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 4.500 | 4.495 | 7.681 | - | 7.681 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 4.500 | 4.495 | 7.681 | - | 7.681 | - | - | - | - | - | - |
| (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:

Common Munitions BIT Reprogramming Equipment (CMBRE) Service Life Extension Program (SLEP) is a critical program replacing a legacy system fielded in the 1990s utilizing floppy drives and a DOS/Win XP operating system. The CMBRE SLEP program will mitigate the effects and risk associated with a growing list of 20+ obsolete components, outdated technology, and insufficient cybersecurity outlined in Red Team and POA\&M findings in order to sustain current capabilities. CMBRE SLEP will effectively support the 20+ smart munitions and weapon systems currently fielded for the warfighter today, as well as advanced systems currently in development. CMBRE SLEP is needed to verify weapons built-in test status, reprogram operational flight data, and up/download mission and GPS data.

Cruise Missile Automatic Test System (CM-ATS)
The CM-ATS is a nuclear certified tester designed to test the AGM-86 Cruise Missile fleet, the B-2 RLA, and associated Carrier Aircraft Equipment (CAE) used to launch missiles.
Funding for this exhibit is contained in PE 0701212F.


UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 222000 / Replac Equip \& War Consumables |  |  |  |  |  |  |  | Aggregated Items Title: <br> Replac Equip \& War Consumables |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ |  | Prior Years |  |  | FY 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 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 <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) |
| COMMON MUNITIONS BIT REPROGRAMMING EQUIPMENT SERVICE LIFE EXTENSION PROGRAM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DCSA PRODUTION UNITS | A |  | - - | - | - | 0.200 | 15 | 3.000 | 0.200 | 15 | 3.000 | - | - | 0.181 | - | - | - | - | - | 0.181 |
| Munition Application Program (MAPs) | A |  | - | - | - | - | - | 1.500 | - | - | 1.495 | 1.500 | 5 | 7.500 | - | - | - | 1.500 | 5 | 7.500 |
| Subtotal: COMMON MUNITIONS BIT REPROGRAMMING EQUIPMENT SERVICE LIFE EXTENSION PROGRAM |  |  | - | - | - | - | - | 4.500 | - | - | 4.495 | - | - | 7.681 | - | - | - | - | - | 7.681 |
| Total |  |  | - | - | - | - | - | 4.500 | - | - | 4.495 | - | - | 7.681 | - | - | - | - | - | 7.681 |

## Remarks:


 AMRAAM, SDB-I, BRU-61, JDAM and ALE-50, as well as starting CMBRE SLEP technical order development and necessary costs associated with the CMBRE and Cruise Missile ATS Programs.

Common Munitions BIT Reprogramming Equipment (CMBRE) Service Life Extension Program (SLEP) is used to initiate BIT and reprogram MIL-STD-1760/Non-1760 smart bombs and missiles.
Provides BIT status, upload/download and verification of applicable software including:
Operational Flight Programs (OFPs), mission planning and/or Global Positioning System (GPS) crypto keys, preflight of smart munitions.
The Cruise Missile - Automatic Test System is a nuclear certified tester designed to test the AGM-86 Cruise Missile fleet, the B-2 RLA, and associated Carrier Aircraft Equipment (CAE) used to launch missiles.

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

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- |
| 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical | ARRW00 / AGM-183A Air-Launched Rapid Response Weapon |

ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0101101F
Other Related Program Elements: N/A

| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 160.850 | - | 160.850 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 160.850 | - | 160.850 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 160.850 | - | 160.850 | - | - | - | - | - | - |
| (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 Rapid Response Weapon (ARRW) is a Middle Tier Acquisition (MTA) rapid prototyping effort (RDT\&E) in PE 0604033F, BPAC 643882. ARRW provides a hypersonic, long range, conventional air-to-surface, precision guided prompt strike capability from stand-off ranges. ARRW will provide a lethal capability against high-value, time-sensitive targets in anti-access/area-denied environments. Initial fielding and operational use of ARRW will be on the B-52 aircraft and have a 15 year shelf life. The RDT\&E effort will design, develop, manufacture, and test a number of production-ready prototype missiles. In FY2021, ARRW will conduct booster test flights and begin manufacture of All-Up Round (AUR) test missiles. In FY 2022, ARRW will complete manufacture and flight test of AUR test missiles and transition to an early operational capability. This procurement activity begins production and rapid fielding for ARRW.

ARRW procurement funding supports the entire weapon system to include resolution of obsolescence, end-of-life buys, bridge buys, supplier/parts replacement, to include electronic components used commercially and in short supply, and qualification activities to preserve and increase future production capabilities and capacity. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Note: Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S. Code Section 2308 Buy-To-Budget Acquisition
Funding for this exhibit contained in PE 0101101F.

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical |  |  |  |  |  | P-1 Line Item Number / Title: ARRW00 / AGM-183A Air-Launched Rapid Response Weapon |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0101101F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | ID | MDAPI MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | AGM-183A Air-Launched Rapid Response Weapon | P-5a, P-21 | B |  | - 1 - | - 10.000 | - 10.000 | - /160.850 | - 1 | - 1160.850 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 | 10.000 | 10.000 | 1160.850 | - 1. | - /160.850 |
| *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. |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| This program is a new start. |  |  |  |  |  |  |  |  |  |  |
| ARRW is a Middle Tier Acquisition rapid prototyping effort. |  |  |  |  |  |  |  |  |  |  |
| FY22 funds will be used to procure AGM-183A ARRW missiles and associated support equipment. |  |  |  |  |  |  |  |  |  |  |
| FY22 funding procures an estimated 12 missiles for initial fielding of a hypersonic weapon capability. |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-5, Cost Analysis: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: ARRW00 / AGM-183A Air-Launched Rapid Response Weapon |  |  |  |  |  |  |  | Item Number / Title [DODIC]: AGM-183A Air-Launched Rapid Response Weapon |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2020 |  | FY 2021 |  | FY 2022 Base |  |  | FY 2022 OCO |  | FY 2022 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  |  |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | - |  | 0.000 |  | 0.00 |  |  | 0.850 |  | - |  | 160.850 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | - |  | 0.000 |  | 0.00 |  |  | 0.850 |  | - |  | 160.850 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | - |  | 0.000 |  | 0.00 |  |  | 0.850 |  | - |  | 160.850 |
| (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) |  |  |  |  |  |  |  |  |  |  |  | - |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 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 <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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) |
| Hardware - Air-launched Rapid Response Weapon (ARRW) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AGM-183A All Up Rounds ${ }^{(t)}$ | - | - | - | - | - | 0.000 | - | - | 0.000 | 11.202 | 12 | 134.420 | - |  | - - | 11.202 | 12 | 134.420 |
| Subtotal: Recurring Cost | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 134.420 | - |  | - - | - | - | 134.420 |
| Subtotal: Hardware - Airlaunched Rapid Response Weapon (ARRW) Cost | - | - | - | - | - | 0.000 | - | - | 0.000 | . | - | 134.420 | . |  | - - | . | . | 134.420 |
| Support - Air-launched Rapid Response Weapon (ARRW) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| USG Support | - | - | - | - | - | - | - | - | - | - | - | 21.850 | - |  | - - | - | - | 21.850 |
| USG Program Management Administration (PMA) | - | - | - | - | - | - - | - | - | - | - | - | 4.580 | . |  | - - | - | - | 4.580 |
| Subtotal: Support - Airlaunched Rapid Response Weapon (ARRW) Cost | - | - | - | - | - | - - | - | - | - | - | - | 26.430 | - |  | - - | - | - | 26.430 |
| Gross/Weapon System Cost | - |  | - | - |  | 0.000 | - |  | 0.000 | - | - | 160.850 | - |  | - - | - | - | 160.850 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> AGM-183A Air-Launched Rapid <br> Response Weapon |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budg 3020F / 02 / 2 |  | $y / B$ | et Sub Activity: | P-1 Line Item Number / Title: <br> ARRW00 / AGM-183A Air-Launched Rapid Response Weapon |  |  |  |  |  |  |  |  |
| 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 | $\underset{\text { (Each) }}{\text { Qty }}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| AGM-183A All Up Rounds ${ }^{(+)}$ |  | 2022 | Lockheed Martin / Orlando FL | TBD | AFLCMC/EB - Weapons | Jan 2022 | Jul 2023 | 12 | 11.202 | N | Dec 2021 | Dec 2020 |

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

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> AGM-183A Air-Launched Rapid <br> Response Weapon |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: ARRW00 / AGM-183A Air-Launched Rapid Response Weapon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { QTY } \end{aligned}$ | $\begin{array}{\|c} \hline \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2021 \\ \hline \end{array}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N | D <br> E <br> C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br> P <br> R | M A Y | J u | ${ }_{\text {J }}^{\text {u }}$ | A u G | S E P | O <br> c <br> T | N | D <br> E <br> C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \\ & \hline \end{aligned}$ | M A R | A $\mathbf{p}$ R | M A Y | J u N | ${ }_{\text {J }}^{\text {U }}$ | A U G | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| AGM- | 83A All | Up Rounds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | AF | 12 | 0 | 12 |  |  |  | A - | - | - | - | - | - | - | - |  | - |  |  |  | - | - | - |  |  |  |  | 1 | 9 |
|  |  |  |  |  |  | O c T | N | D E C | A | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A | M A Y | J | J | A U G | S E P | O c T | N | D E C | J A N | F | M A R | A | M A Y | J U N | ${ }_{\text {J }}^{\text {u }}$ | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> AGM-183A Air-Launched Rapid <br> Response Weapon |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: ARRW00 / AGM-183A Air-Launched Rapid Response Weapon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  | nd | ar 2 |  |  |  |  |  |  |  |  |  | ar $Y$ | 2025 |  |  |  |  |
|  | FY | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { QTY } \end{aligned}$ | $\begin{array}{\|l\|l\|} \hline \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2023 \end{array}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O <br> c <br> T | N O v | D <br> E <br> C | J A N | F E B | M A R | A P R | M A Y | J <br> U <br>  | $\mathrm{J}_{\mathrm{u}}^{\mathrm{u}}$ | A U G | S E P | O <br> c <br> T | N | D <br> E <br> C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | R | M A Y | J <br> U <br>  | ${ }_{\text {J }}$ | A U G | S E P |  |
| AGM-183A All Up Rounds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | AF | 12 | 3 | 9 | 1 |  | 1 |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\underset{\mathrm{E}}{\mathrm{F}} \mathrm{E}$ | M A R | A <br>  <br> P <br> R | M A Y | J | ${ }_{\text {J }}^{\text {u }}$ | A | S E P | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | R | M ${ }_{\text {M }}^{\text {A }}$ | J | ${ }_{\text {J }}^{\text {J }}$ | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: ARRW00 / AGM-183A Air-Launched Rapid Response Weapon |  |  |  |  | Item Number / Title [DODIC]: AGM-183A Air-Launched Rapid Response Weapon |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2022 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2022 | 1-8-5 For 2022 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Lockheed Martin - Orlando FL | 12 | 12 | 24 | 10 | 4 | 18 | 22 | 0 | 0 | 0 | 0 |

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

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## Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical

## P-1 Line Item Number / Title:

JAGM00 / Joint Air-To-Ground Munition
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 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | 40 | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 10.000 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 10.000 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 10.000 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | 0.214 | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | 0.250 | - | - | - | - | - | - | - | - | - | - |

## Description:

The Joint Air-to-Ground Missile (JAGM) is a multi-sensor air-to-ground missile that will increase lethality for the Joint Force Commander against time sensitive targets in challenging environments. JAGM entered production in FY2018, leveraging the HELLFIRE system. AF will augment the HELLFIRE inventory with JAGMs to improve the lethality of the MQ-9 Reaper.

The Army is the Lead Service for the JAGM program with Air Force missiles being procured through the Army's Redstone Arsenal. JAGM is the next generation of aviation-launched, fire and forget missiles to augment HELLFIRE capability. The JAGM multi-mode guidance section is integrated with the combat-proven HELLFIRE II (AGM-114R) propulsion, warhead, and control section. JAGM will provide precisionkill capability and be used by joint service aircraft for destruction of high value stationary, moving, and relocatable land and maritime targets from standoff range in day, night, adverse weather, and obscured operational environments. JAGMs will be used by the MQ-9 Reaper aircraft.

JAGM procurement funding supports the entire JAGM system to include resolution of obsolescence, end-of-life buys, safety, insensitive munitions, reliability, weapon integration activities, test sets, engineering changes, modifications, and production issues. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. Unit cost may vary based on procurement quantities of Lead Service, other Services and/or Foreign Military Sales (FMS) from the HELLFIRE and JAGM production capacity. Starting in FY2020, JAGM and HELLFIRE missiles will be procured using the same annual production contract.

Note: Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S. Code Section 2308 BUY-TO-BUDGET ACQUISITION.
Funding for this exhibit is contained in PE 0201109F.
Justification:
No FY2022 funding requested.

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## Appropriation / Budget Activity / Budget Sub Activity:

## 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical

## P-1 Line Item Number / Title:

JASSMO / Joint Air-Surface Standoff Missile

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: 555 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | 3,654 | 390 | 376 | 525 | - | 525 | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 4,135.411 | 482.507 | 500.009 | 710.550 | - | 710.550 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 4,135.411 | 482.507 | 500.009 | 710.550 | - | 710.550 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 4,135.411 | 482.507 | 500.009 | 710.550 | - | 710.550 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 0.434 | 0.440 | 0.442 | - | 0.442 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | 1.132 | 1.237 | 1.330 | 1.353 | - | 1.353 | - | - | - | - | - | - |

## Description:

FY2020 funding totals include $\$ 20.9 \mathrm{M}$ appropriated for Overseas Contingency Operations (OCO). These funds procure 19 missiles.
FY2021 funding totals include $\$ 30.0 \mathrm{M}$ appropriated for OCO. These funds procure 24 missiles.
FY2022 funding totals include $\$ 8.0 \mathrm{M}$ requested for Direct War costs. These funds procure 8 missiles.
The Joint Air-to-Surface Standoff Missile (JASSM) is an ACAT 1C program. This program provides a long range, conventional air-to-surface, autonomous, precision guided, standoff cruise missile compatible with fighter and bomber aircraft able to attack a variety of fixed or relocatable targets. The JASSM family of missiles includes: JASSM Baseline (JASSM-BL/AGM-158A) and JASSM Extended Range (JASSM-ER/ AGM-158B, JASSM-ER/AGM-158B-2, and JASSM-ER/AGM-158D). The AGM-158B-2 is the variant that resulted after the wing de-scope. AGM-158D provides a weapon datalink (WDL) capability to the JASSM AGM158B-2 variant to re-target the missile, post-launch, against time sensitive targets during mission execution. Efforts also include, but are not limited to, continued integration of alternative communication methods, architecture, and waveforms to advance missile capabilities against critical emerging targets. It does not incorporate wing upgrades.

Aircraft integration for JASSM-BL is complete on the B-52H, F-16 (Block 40-52), B-1, B-2, and F-15E. Aircraft integration for JASSM-ER/AGM-158B is complete on the B-1, F-15E, F-16, and B-52. Threshold aircraft is the B-1 and the objective aircraft for JASSM-ER/AGM-158B are the B-52, F-16, B-2, F-15E, and F-35. JASSM-ER/AGM-158B-2 is scheduled to start low rate initial production in the FY2021 procurement. JASSM-ER/AGM-158D will start low rate initial production in FY2022. Threshold aircraft for JASSM-ER/AGM-158D is the B-1 and the objective aircraft for JASSM-ER/AGM-158D are the B-52, F-16, B-2, F-15E, and F-35. JASSM Lots 1-10 are covered under an Original Equipment Manufacture (OEM) warranty. Lots 11 and beyond are covered under a Contractor Logistics Support (CLS) contract, and missile initial/replenishment spares program funds are required to fill the spare parts pipeline under this program. Procurement quantities are estimates only and fall within a range of quantities based on negotiations for each specific lot contract.

Funding and quantity information prior to FY2017 is identified in P-1 line Item 654515.
FY2022 funds the 20th production lot for the JASSM program. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. The program also plans to use funds to address obsolescence issues and reliability improvement, including flight testing, through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply, and qualification activities to preserve future production capabilities and capacity.

Funding for this exhibit is contained in PE 0207325F.

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical |  |  |  |  |  | P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Rea | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: 555 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | JASSMO JASSM Baseline |  | A |  | 2,034 / 1,836.328 | - 1 - | - 1 - | - 1 - | - 1 | - 1 - |
| P-5 | Joint Air-Surface Standoff Missile | P-5a, P-21 | A |  | 1,620 / 2,299.083 | 390 / 482.507 | 376 / 500.009 | $525 / 710.550$ | 1 | $525 / 710.550$ |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 3,654/4,135.411 | 390 / 482.507 | 376 / 500.009 | 525/710.550 | - 1 | $525 / 710.550$ |

*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:

FY2022 funding totals include $\$ 702.550 \mathrm{M}$ in base to procure 517 missiles and $\$ 8.000 \mathrm{M}$ in Direct War costs to procure 8 missiles.
Correct FY2021 quantity total is 400 (376 Base and 24 OCO). Funding totals are correct.


Exhibit P-5, Cost Analysis: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3020F / 02 / 2ID Code (A=Service Ready, B=Not Service Ready) : A


Exhibit P-5, Cost Analysis: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3020F / 02 / 2
## P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile

Date: May 2021

## Item Number / Title [DODIC]:

Joint Air-Surface Standoff Missile

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


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| Exhibit P-5, Cost Analysis: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile |  |  |  |  |  |  |  | Item Number / Title [DODIC]: Joint Air-Surface Standoff Missile |  |  |  |  |
| 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 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$M) | Unit Cost $(\$ \mathrm{M})$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Gross/Weapon System Cost | 1.419 | 1,620 | 2,299.083 | 1.237 | 390 | 482.507 | 1.330 | 376 | 500.009 | 1.353 | 525 | 710.550 | . | . | - | 1.353 | 525 | 710.550 |

Remarks:
FY22 facilitization funding procures specialized equipment required to support production of missile capabilities.
FY22 prime contractor funding supports engineering practices to increase the producibility, capability, affordability and improve engineering and manufacturing processes of existing and future units when applicable.

Correct FY2021 quantity total is 400 ( 376 Base and 24 OCO). Funding totals are correct as written.
${ }^{(\dagger)}$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> Joint Air-Surface Standoff Missile |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  | Line Item Num SSMO / Joint Ai | er / Title: Surface Stando |  |  |  |  |  |  |  |
| Cost Elements | O c 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 |
| AGM-158B ${ }^{(\dagger)}$ |  | 2018 | Lockheed Martin / Troy, Alabama | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Oct 2018 | Oct 2020 | 360 | 1.063 | Y |  | Jul 2017 |
| AGM-158B ${ }^{(+)}$ |  | 2019 | Lockheed Martin / Troy, Alabama | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Mar 2020 | Oct 2021 | 360 | 1.109 | Y |  | Jul 2018 |
| AGM-158B ${ }^{(\dagger)}$ |  | 2020 | Lockheed Martin / Troy, Alabama | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Mar 2020 | Oct 2022 | 390 | 1.010 | Y |  | Jul 2019 |
| AGM-158B ${ }^{(+)}$ |  | 2021 | Lockheed Martin / Troy, Alabama | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Feb 2021 | Oct 2023 | 360 | 0.995 | Y |  | Mar 2020 |
| AGM-158B ${ }^{(+)}$ |  | 2022 | Lockheed Martin / Troy, Alabama | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Mar 2022 | Oct 2024 | 280 | 1.000 | Y |  | Apr 2021 |
| AGM-158B-2 ${ }^{(+)}$ |  | 2021 | Lockheed Martin / Troy, Alabama | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Feb 2021 | Feb 2024 | 40 | 1.216 | Y |  | Mar 2020 |
| AGM-158B-2 ${ }^{(+)}$ |  | 2022 | Lockheed Martin / Troy, Alabama | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Mar 2022 | Feb 2025 | 210 | 1.116 | Y |  | Apr 2021 |
| AGM-158D ${ }^{(+)}$ |  | 2022 | Lockheed Martin / Troy, Alabama | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Mar 2022 | Feb 2025 | 35 | 1.544 | Y |  | Jul 2021 |

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

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 Item Number / Title [DODIC]: Joint Air-Surface Standoff Missile |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2026 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2026 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|l\|} \hline & \mathrm{F} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{O} & \# \end{array}$ | FY | SERVICE | Proc QTY | $\begin{gathered} \text { PRIR } \\ \text { TO } 1 \\ \text { OCT } \\ 2024 \end{gathered}$ | $\begin{gathered} \mathrm{BAL} \\ \text { BDE } \\ \mathrm{ASOF} \\ 1 \mathrm{OCT} \end{gathered}$ | - | N V v | D E c | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | m A Y | J u | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | A | S E P | O c T | N v | D E c | J A N | F E B | M A R | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J N N | J u L | A U G | S E P |  |
| AGM-158B |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 900 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | AF | 360 | 360 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | AF | 360 | 360 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | FMS ${ }^{(\ddagger)}$ | 40 | 40 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | Total | 400 | 400 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - | - | - | 0 |
| 1 | 2020 | AF | 390 | 390 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | AF | 360 | 360 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2022 | AF | 280 | 0 | 280 | 24 | 25 | 25 |  | 25 | 25 | 25 | 25 | 22 | 21 | 19 | 19 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| AGM-158B-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 22021 | AF | 40 | 40 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2022 | AF | 210 | 0 | 210 | - | - | - | - | 17 | 27 | 27 | 27 | 28 | 28 | 28 | 28 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 22022 | NAVY ${ }^{\left.()^{( }\right)}$ | 25 | 0 | 25 | - | - | - | - | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2022 | Total | 235 | 0 | 235 | - | - | - | - | 20 | 30 | 30 | 31 | 31 | 31 | 31 | 31 | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| AGM-158D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 3 2022 | AF | 35 | 0 | 35 | - | - | - | - | 1 | - | - | 5 | 5 | 8 | 8 | 8 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile |  |  |  |  | Item Number / Title [DODIC]: Joint Air-Surface Standoff Missile |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2022 | 1-8-5 For 2022 | MAX For 2022 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Manufacturing } \\ \text { PLT } \\ \hline \end{gathered}$ | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Manufacturing } \\ \text { PLT } \end{gathered}$ | Total After Oct 1 |
| 1 | Lockheed Martin - Troy, Alabama | 248 | 307 | 340 | 1 | 0 | 0 | 0 | 0 | 6 | 31 | 37 |
| 2 | Lockheed Martin - Troy, Alabama | 40 | 210 | 235 | 0 | 0 | 0 | 0 | 0 | 6 | 35 | 41 |
| 3 | Lockheed Martin - Troy, Alabama | 1 | 1 | 35 | 1 | 6 | 35 | 41 | 0 | 0 | 0 | 0 |

## Remarks:

FY2021/Lot 19 contract award of 400 missiles will contain an option upon successful completion of procurement decision, an engineering change order (ECO) will be issued for 40 AGM-158B-2 missiles, netting 360 AGM-158Bs and 40 AGM-158B-2s upon contract execution. ECO projected to issue in July 2022.
AGM-158B-2 procurement deliveries start February 2024 and are phased to allow for new production facility transition.
 OCO missiles), 210 AGM-158B-2s, and 35 AGM-158Ds upon contract execution. ECO projected to issue in September 2022.

Since FY2022 is the initial AGM-158D build, production rates are dependent on capability development. Therefore, actual Minimum Sustainment Rate (MSR) is 0 , which is an invalid value for IDECS data validation.
MSR for AGM-158B includes US Air Force and US Navy procurement.
P-21 delivery schedule reflects the correct total quantities in FY2021 (400 missiles).
${ }^{(\ddagger)}$ 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).

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## Appropriation / Budget Activity / Budget Sub Activity: $\quad$ P-1 Line Item Number / Title: <br> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical <br> P-1 Line Item Num0 LRASM0 / LRASM0

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: | 7325F |  | Other Relat | Program E | ments: $\mathrm{N} / \mathrm{A}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 449 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | 50 | - | 5 | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 187.524 | 0.000 | 19.800 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 187.524 | 0.000 | 19.800 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 187.524 | 0.000 | 19.800 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | 3.750 | - | 3.960 | - | - | - | - | - | - | - | - | - |

## Description:

The Long Range Anti-Ship Missile (LRASM) is a near-term solution for the Offensive Anti-Surface Warfare (OASuW) air-launch capability gap that provides flexible, long-range, advanced, anti-surface capability against high-threat maritime targets. The Navy is the lead service for the LRASM program.

The missile was developed based on the Joint Air-to-Surface Standoff Missile-Extended Range (JASSM-ER). LRASM achieved Early Operational Capability (EOC) in December 2018 on the U.S. Air Force B-1 Lancer and EOC on the U.S. Navy F/A-18E/F Super Hornet in November 2019.

The program transitions the Defense Advanced Research Projects Agency (DARPA)/Office of Naval Research (ONR) LRASM demonstration design into a fielded weapon system which supports an increased offensive strike capability. Funds may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues. The program also plans to use funds to address obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply, and qualification and reliability activities to preserve future production capabilities and capacities.

Funding for this exhibit is contained in PE 0207325F.
Additional funding for this exhibit is also contained in Navy PE 0604786N Offensive Anti-Surface Warfare Weapon Dev.

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Exhibit P-5, Cost Analysis: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3020F / 02 / 2
## P-1 Line Item Number / Title: LRASMO / LRASM0

Date: May 2021
Item Number / Title [DODIC]:
LRASM0

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

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 50 | - | 5 | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 187.524 | 0.000 | 19.800 | 0.000 | - | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 187.524 | 0.000 | 19.800 | 0.000 | - | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 187.524 | 0.000 | 19.800 | 0.000 | - | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 |
| Gross/Weapon System Unit Cost (\$ in Millions) | 3.750 | - | 3.960 | - | - | - |

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

|  | Prior Years |  |  | FY 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\underset{(\text { Each }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$M) | Unit Cost (\$ M) | Qty | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { Each }}{\text { Qty }}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |


| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LRASM All-UpRound ${ }^{(t)}$ | 3.566 | 50 | 178.294 | - | - | 0.000 | 3.510 | 5 | 17.551 | - | - |
| Contingent Liability | - | - | 6.561 | - | - | - | - | - | 0.000 | - | - |
| Subtotal: Recurring Cost | - | - | 184.855 | - | - | 0.000 | - | - | 17.551 | - | - |
| Subtotal: Hardware LRASM Cost | - | - | 184.855 | - | - | 0.000 | - | - | 17.551 | - | - |


| Program Management Administration (PMA)A\&AS | - | - | 0.280 | - | - | 0.000 | - | - | 0.500 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Program Management Administration (PMA)Gov't Cost | - | - | 0.089 | - | - | 0.000 | - | - | 0.150 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Tooling | - | - | 2.300 | - | - | - | - | - | 1.599 | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - LRASM Cost | - | - | 2.669 | - | - | 0.000 | - | - | 2.249 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Gross/Weapon System Cost | 3.750 | 50 | 187.524 | - | - | 0.000 | 3.960 | 5 | 19.800 | - | - | 0.000 | - | - | - | - | - | 0.000 |

## Remarks:

 as a Contingent Liability (CL). The final determination for award of a CL will not be made until after the final item is delivered and actual costs are established.

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| Exhibit P-5, Cost Analysis: PB 2022 Air Force | Date: May 2021 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3020 \mathrm{~F} / 02$ / 2 | P-1 Line Item Number / Title: <br> LRASM0 / LRASM0 | Item Number / Title [DODIC]: <br> LRASM0 |
| ID Code (A=Service Ready, B=Not Serice 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 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: LRASMO |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Buc 3020F / 02 / 2 |  | $\mathrm{y} / \mathrm{Bu}$ | t Sub Activity: | P-1 Line Item Number / Title: LRASMO / LRASM0 |  |  |  |  |  |  |  |  |
| 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 |
| LRASM All-Up-Round ${ }^{(+)}$ |  | 2018 | Lockheed Martin / Troy, AL | SS/FPIF | Eglin AFB | Nov 2018 | May 2021 | 16 | 3.443 | N | Jan 2017 | Jan 2017 |
| LRASM All-Up-Round ${ }^{(+)}$ |  | 2019 | Lockheed Martin / Troy, AL | SS/FPIF | Eglin AFB | Mar 2020 | May 2022 | 15 | 3.443 | N | Jan 2019 | Jan 2019 |
| LRASM All-Up-Round ${ }^{(+)}$ |  | 2021 | Lockheed Martin / Troy, AL | SS/FFP | Eglin AFB | Feb 2021 | Oct 2022 | 5 | 3.510 | N | Jan 2020 | Feb 2020 |

${ }^{(\dagger)}$ indicates the presence of a P-21
Remarks:
Lot 5/FY2021 is the first year of Air Force procurement for the LRASM v1.1 configuration.
Lot 5 (FY2021) is changed to FFP.

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: LRASMO |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: LRASM0 / LRASM0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \mathbf{N} \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|c\|c\|c\|c\|c\|c\|c\|c\|} \hline 0 & \mathrm{~F} \\ \mathrm{c} & \mathrm{R} \\ \mathrm{O} & \end{array}$ | FY | SERVICE | PROC QTY | PRIOR TO 1 OCT 2020 | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 10 C T \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \text { A } \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & F \\ & E \\ & E \\ & B \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { Y } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J u L | $\begin{aligned} & A \\ & \text { A } \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{p} \end{aligned}$ |  |
| LRAS | All-Up | -Round |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | ears De | Piveries: 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | AF | 16 | 0 | 16 | - | - | - | - | - | - | - | 2 | 2 | 4 | 4 | 4 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | NAVY ${ }^{\left({ }^{( }\right)}$ | 34 | 0 | 34 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | - | - | - |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | Total | 50 | 0 | 50 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 1 | 2019 | AF | 15 | 0 | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 4 | 4 | 4 | 0 |
| 1 | 2019 | NAVY ${ }^{(4)}$ | 33 | 0 | 33 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | - | - | - | 0 |
| 1 | 2019 | Total | 48 | 0 | 48 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 5 | 4 | 4 | 4 | 0 |
| 1 | 2021 | AF | 5 | 0 | 5 |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 |
| 1 | 2021 | FMS ${ }^{(\ddagger)}$ | 69 | 0 | 69 |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 69 |
| 1 | 2021 | NAVY ${ }^{(4)}$ | 48 | 0 | 48 |  |  |  |  | A. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 48 |
| 1 | 2021 | Total | 122 | 0 | 122 |  |  |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - | - | 122 |
|  |  |  |  |  |  | - | N | D E C | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{J} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{gathered} \mathrm{A} \\ \underset{G}{\mathrm{G}} \end{gathered}$ | $\begin{aligned} & \hline \mathbf{s} \\ & \mathrm{E} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ |  | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & \text { A } \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | J | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> LRASMO / LRASMO |  |  |  |  | Item Number / Title [DODIC]: LRASMO |  |  |
| $\begin{array}{\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \text { \# } \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2022 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2022 | 1-8-5 For 2022 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Lockheed Martin - Troy, AL | 12 | 72 | 72 | 21 | 5 | 20 | 25 | 0 | 0 | 0 |  |
| Remarks: <br> Minimum Sustainment Rate (MSR) includes US Air Force and US Navy. |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{(\ddagger)}$ 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. <br>  <br>  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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| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- |
| 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical | M09HAI / Sidewinder (AIM-9X) |

## 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0207161F

| Line Item MDAP/MAIS Code: 442 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | 2,378 | 444 | 331 | 243 | - | 243 | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 1,037.648 | 155.289 | 164.769 | 107.587 | - | 107.587 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,037.648 | 155.289 | 164.769 | 107.587 | - | 107.587 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,037.648 | 155.289 | 164.769 | 107.587 | - | 107.587 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 23.431 | 0.234 | 1.861 | 2.659 | - | 2.659 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | 0.395 | 0.418 | 0.472 | 0.398 | - | 0.398 | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | 0.436 | 0.350 | 0.498 | 0.443 | - | 0.443 | - | - | - | - | - | - |

## Description:

The AIM-9X Block II/II+ Sidewinder (AIM-9X BIK II/II+) continues the evolution of the AIM-9 series of missiles. This missile program delivers a launch and leave, air combat munition that uses passive Infrared (IR) energy to acquire and track enemy air targets and complements the radar guided Advanced Medium Range Air-to-Air Missile (AMRAAM). The missile provides first shot, first kill opportunities while conducting air combat maneuvering Within Visual Range (WVR) which is essential for aircrew survival. The AIM-9X provides these opportunities with unmatched offensive and defensive capabilities against threats WVR, even when IR countermeasures are employed.

The AIM-9X also provides air superiority in the Beyond Visual Range (BVR) air-to-air battle. Anti-tamper features have been incorporated to protect improvements inherent in this design. The AIM-9X Block II missile is critical for projecting power and winning decisively against threats identified in Defense Planning Guidance and the Air Force Strategic Master Plan.

AIM-9X is a Post Milestone C, Acquisition Category IC (ACAT-IC) joint service program led by the Department of the Navy. In June 2011, the Milestone Decision Authority (MDA) established the AIM-9X Block II missile program which was approved for entry at Milestone C for Low Rate Initial Production (LRIP). The Block I program ended with the Sec 2366 A/B certification and Acquisition Program Baseline for AIM-9X Block II approval on December 23, 2011. In August 2015, the program received approval for Full Rate Production (FRP), and the Acquisition Program Baseline was re-established.

In December 2017, the program began to procure a third variant of the missile labeled the AIM-9X Block II PLUS (Block II+) to satisfy the requirements of the Joint Strike Fighter platform. This version of the missile is being produced on the same production line as the AIM-9X Block II missile. For contracting purposes, the nomenclature of the AIM-9X Block II missile is identified as AIM-9X-2 and the AIM-9X Block II+ missile is identified as AIM-9X-3.

In February 2019, the Acquisition Program Baseline for Navy and USAF was revised to increase total missile procurements from 6,000 to 11,635 missiles and to extend missile procurements through 2035 .
Funding for this exhibit contained in PE 0207161F
Funding may be used to address Diminishing Manufacturing Source (DMS) issues.

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

*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:


 Force as well as Foreign Military Sales customers.

Total Program quantity by service includes a mix of All Up Round (AUR) missiles and Captive Air Training Missiles (CATM).
 qualification activities to preserve future production capabilities and capacities.


Exhibit P-5, Cost Analysis: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3020F/ 02 / 2
## P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)

Date: May 2021

## Item Number / Title [DODIC]:

Sidewinder (AIM-9X)

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

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 2,378 | 444 | 331 | 243 | - | 243 |
| Gross/Weapon System Cost (\$ in Millions) | 1,037.648 | 155.289 | 164.769 | 107.587 | - | 107.587 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,037.648 | 155.289 | 164.769 | 107.587 | - | 107.587 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,037.648 | 155.289 | 164.769 | 107.587 | - | 107.587 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 23.431 | 0.234 | 1.861 | 2.659 | - | 2.659 |
| Gross/Weapon System Unit Cost (\$ in Millions) | 0.436 | 0.350 | 0.498 | 0.443 | - | 0.443 |

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

| Cost Elements | Prior Years |  |  | FY 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ 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) | Qty <br> (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |


| Flyaway - Flyaway End Item Cost |
| :---: |
| Recurring Cost |


| $\begin{aligned} & \text { All Up Round - Block } \\ & \text { II }^{(+)} \end{aligned}$ | 0.394 | 1,665 | 656.399 | 0.371 | 303 | 112.448 | 0.455 | 225 | 102.305 | 0.401 | 155 | 62.136 | - | - | - | 0.401 | 155 | 62.136 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Captive Air Training Missile (CATM) - Block II ${ }^{(\dagger)}$ | 0.218 | 508 | 110.681 | 0.202 | 130 | 26.268 | 0.223 | 26 | 5.800 | 0.233 | 80 | 18.615 | - | - | - | 0.233 | 80 | 18.615 |
| Engineering Change Orders - Block II | - | - | 2.038 | - | - | 0.000 | - | - | 3.937 | - | - | 2.268 | - | - | - | - | - | 2.268 |
| Diminishing Manufacturing Sources | - | - | 18.032 | - | - | 1.895 | - | - | 1.362 | - | - | 7.891 | - | - | - | - | - | 7.891 |
| Government Cost (GFE \& Testing) Block II | - | - | 0.654 | - | - | 0.006 | - | - | 0.000 | - | - | 0.037 | - | - | - | - | - | 0.037 |
| Special Test/Special Tooling Equipment Block II | - | - | 16.563 | - | - | 1.075 | - | - | 1.514 | - | - | 1.715 | - | - | - | - | - | 1.715 |
| Missile Containers Block II | 0.013 | 690 | 8.711 | 0.014 | 92 | 1.270 | 0.013 | 92 | 1.198 | 0.013 | 68 | 0.862 | - | - | - | 0.013 | 68 | 0.862 |
| Non-Recurring Engineering - Block II | - | - | 39.771 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| All Up Round - Block II Plus ${ }^{(\dagger)}$ | 0.424 | 205 | 86.944 | 0.494 | 11 | 5.438 | 0.500 | 80 | 40.032 | 0.458 | 8 | 3.665 | - | - | - | 0.458 | 8 | 3.665 |
| Subtotal: Recurring Cost | - | - | 939.793 | - | - | 148.400 | - | - | 156.148 | - | - | 97.189 | - | - | - | - | - | 97.189 |

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| Exhibit P-5, Cost Analysis: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X) |  |  |  |  |  |  |  | Item Number / Title [DODIC]: Sidewinder (AIM-9X) |  |  |  |  |
| 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 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 Total |  |  |
| Cost Elements | 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 <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) |
| Subtotal: Flyaway - Flyaway End Item Cost | - | - | 939.793 | - | - | 148.400 | - | - | 156.148 | - | - | 97.189 | - | - | - | - | - | 97.189 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production Tech Support | - | - | 27.630 | - | - | 2.827 | - | - | 2.147 | - | - | 4.346 | - | - | - | - | - | 4.346 |
| Peculiar Support <br> Equipment - Block II | - | - | 0.249 | - | - | 0.006 | - | - | 0.044 | - | - | 0.040 | - | - | - | - | - | 0.040 |
| Test Equipment - Block II | - | - | 10.682 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| PMA Contractor Services <br> - Block II | - | - | 11.496 | - | - | 1.132 | - | - | 1.510 | - | - | 1.410 | - | - | - | - | - | 1.410 |
| PMA Other Government Costs - Block II | - | - | 47.585 | - | - | 2.704 | - | - | 4.889 | - | - | 4.560 | - | - | - | - | - | 4.560 |
| Training Support - Block II | - | - | 0.213 | - | - | 0.220 | - | - | 0.031 | - | - | 0.042 | - | - | - | - | - | 0.042 |
| Subtotal: Support - Support End Item Cost | - | - | 97.855 | - | - | 6.889 | - | - | 8.621 | - | - | 10.398 | - | - | - | - | - | 10.398 |
| Gross/Weapon System Cost | 0.436 | 2,378 | 1,037.648 | 0.350 | 444 | 155.289 | 0.498 | 331 | 164.769 | 0.443 | 243 | 107.587 | - | - | - | 0.443 | 243 | 107.587 |

## Remarks:

 are known.

The FY21 Lot 21 Contract is scheduled for award in June 2021 and procures the Full Rate Production (FRP) missile.
Under Buy to Budget Authority, the Air Force procured 89 additional FY20 missiles above the PB21 approved quantity of 355 .

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

| Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  | P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X) |  |  |  | Item Number / Title [DODIC]: <br> Sidewinder (AIM-9X) |  |  |  |  |
| 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 | $\underset{(E a c h)}{\text { Qty }}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| All Up Round - Block II ${ }^{(+)}$ |  | 2018 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Dec 2018 | Sep 2020 | 183 | 0.362 | Y |  | Mar 2017 |
| All Up Round - Block II ${ }^{(+)}$ |  | 2019 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Apr 2019 | Sep 2021 | 176 | 0.381 | Y |  | Jan 2018 |
| All Up Round - Block II ${ }^{(+)}$ |  | 2020 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Mar 2020 | Aug 2022 | 303 | 0.371 | Y |  | Jan 2019 |
| All Up Round - Block II ${ }^{(+)}$ |  | 2021 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Jun 2021 | Aug 2023 | 225 | 0.455 | Y |  | Jan 2020 |
| All Up Round - Block II ${ }^{(+)}$ |  | 2022 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Mar 2022 | Aug 2024 | 155 | 0.401 | Y |  | Jan 2021 |
| Captive Air Training Missile (CATM) $\text { - Block II }{ }^{(\dagger)}$ |  | 2018 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Dec 2018 | Sep 2020 | 64 | 0.196 | Y |  | Mar 2017 |
| Captive Air Training Missile (CATM) $\text { - Block II }{ }^{(\dagger)}$ |  | 2019 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Apr 2019 | Sep 2021 | 15 | 0.209 | Y |  | Jan 2018 |
| Captive Air Training Missile (CATM) $\text { - Block ॥ }{ }^{(\dagger)}$ |  | 2020 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Mar 2020 | Aug 2022 | 130 | 0.202 | Y |  | Jan 2019 |
| Captive Air Training Missile (CATM) <br> - Block II ${ }^{(+)}$ |  | 2021 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Jun 2021 | Aug 2023 | 26 | 0.223 | Y |  | Jan 2020 |
| Captive Air Training Missile (CATM) $\text { - Block ॥ }{ }^{(\dagger)}$ |  | 2022 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Mar 2022 | Aug 2024 | 80 | 0.233 | Y |  | Jan 2021 |
| All Up Round - Block II Plus ${ }^{(+)}$ |  | 2018 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Dec 2018 | Sep 2020 | 75 | 0.416 | Y |  | Mar 2017 |
| All Up Round - Block II Plus ${ }^{(+)}$ |  | 2019 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Apr 2019 | Sep 2021 | 80 | 0.400 | Y |  | Jan 2018 |
| All Up Round - Block II Plus ${ }^{(+)}$ |  | 2020 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Mar 2020 | Aug 2022 | 11 | 0.494 | Y |  | Jan 2019 |
| All Up Round - Block II Plus ${ }^{(+)}$ |  | 2021 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Jun 2021 | Aug 2023 | 80 | 0.500 | Y |  | Jan 2020 |
| All Up Round - Block II Plus ${ }^{(+)}$ |  | 2022 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | NAVAIR | Mar 2022 | Aug 2024 | 8 | 0.458 | Y |  | Jan 2021 |

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

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> Sidewinder (AIM-9X) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { N } \\ & \text { C } \end{aligned}$ |
| $\begin{array}{\|l\|l\|l\|l\|}  & M \\ o & \mathrm{~F} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{O} & \# \\ \hline \end{array}$ |  | SERVICE |  | ACCEPT <br> PRIOR <br> TO 1 <br> OCT <br> 2018 | BAL DUE AS OF 1 OCT |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |
|  | FY |  | PROC QTY |  |  | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N O V | D E C | J | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | $\begin{aligned} & \mathbf{A} \\ & \mathbf{P} \\ & \mathbf{R} \end{aligned}$ | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathbf{U} \\ & \mathbf{N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | A U G | $\begin{aligned} & \mathbf{S} \\ & \mathbf{E} \\ & \mathbf{P} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathbf{O} \\ & \mathbf{V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A $\mathbf{Y}$ | J u N | J u L | A U G | $\begin{aligned} & \mathbf{S} \\ & \mathbf{E} \\ & \mathbf{P} \end{aligned}$ |  |
| All Up Round - Block II |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 1306 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | AF | 183 | 0 | 183 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 | 167 |
| 1 | 2018 | FMS ${ }^{(\ddagger)}$ | 431 | 0 | 431 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 36 | 395 |
| 1 | 2018 | NAVY ${ }^{( \pm)}$ | 141 | 0 | 141 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | 129 |
| 1 | 2018 | Total | 755 | 0 | 755 |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 64 | 691 |
| 1 | 2019 | AF | 176 | 0 | 176 |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 176 |
| 1 | 2019 | FMS ${ }^{(\ddagger)}$ | 156 | 0 | 156 |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 156 |
| 1 | 2019 | NAVY ${ }^{( \pm)}$ | 235 | 0 | 235 |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 235 |
| 1 | 2019 | Total | 567 | 0 | 567 |  |  |  |  |  |  | - | - | - | - | $\cdot$ | - | - | - | - | - | - | - | - | - | - | - | - | - | 567 |
| 1 | 2020 | AF | 303 | 0 | 303 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 303 |
| 1 | 2020 | FMS ${ }^{(\ddagger)}$ | 167 | 0 | 167 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 167 |
| 1 | 2020 | NAVY ${ }^{( \pm)}$ | 227 | 0 | 227 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 227 |
| 1 | 2020 | Total | 697 | 0 | 697 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - | - | - | - | - | - | - | 697 |
| 1 | 2021 | AF | 225 | 0 | 225 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 225 |
| 1 | 2021 | FMS ${ }^{(\ddagger)}$ | 38 | 0 | 38 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 38 |
| 1 | 2021 | NAVY ${ }^{( \pm)}$ | 203 | 0 | 203 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 203 |
| 1 | 2021 | Total | 466 | 0 | 466 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 466 |
| 1 | 2022 | AF | 155 | 0 | 155 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 155 |
| 1 | 2022 | FMS ${ }^{(\ddagger)}$ | 100 | 0 | 100 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 100 |
| 1 | 2022 | NAVY ${ }^{( \pm)}$ | 111 | 0 | 111 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 111 |
| 1 | 2022 | Total | 366 | 0 | 366 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 366 |
| Captive Air Training Missile (CATM) - Block II |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 429 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2018 | AF | 64 | 0 | 64 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 59 |
| 2 | 2018 | FMS ${ }^{(\ddagger)}$ | 76 | 0 | 76 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 70 |
| 2 | 2018 | NAVY ${ }^{( \pm)}$ | 41 | 0 | 41 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 38 |
| 2 | 2018 | Total | 181 | 0 | 181 |  |  | $\cdot$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | 167 |
| 2 | 2019 | AF | 15 | 0 | 15 |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 |
| 2 | 2019 | FMS ${ }^{(\ddagger)}$ | 75 | 0 | 75 |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 75 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> Sidewinder (AIM-9X) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { Cost Elements } \\ & \text { (Units in Each) } \\ & \hline \end{aligned}$ |  |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & B \\ & A \\ & \text { L } \\ & \text { A } \\ & \text { N } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  |  | ${ }^{\text {ACCEPT }}$ |  |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |
|  | $\begin{array}{\|c\|c\|c\|c\|c\|} \hline \\ \mathbf{R} \\ \mathbf{R} \\ \hline \end{array}$ | FY | SERVICE | PROC QTY | $\begin{aligned} & \text { TO } 1 \\ & \text { OCT } \\ & 2018 \end{aligned}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N O v | D <br> E <br> c | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | A <br> P <br> R | M A Y | J u | J u L | A u G | S E P | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N O v | D E C | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | F | M A R | A <br> P <br> R | M A Y | J u N | ${ }_{\text {J }}^{\text {u }}$ | A U G | S E P |  |
|  | 3 | 2022 | NAVY ${ }^{(4)}$ | 8 | 0 | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 |
|  | 3 | 2022 | Total | 16 | 0 | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 16 |
|  |  |  |  |  |  |  | O c T | N V | D E C | J A N | F | M <br>  <br> R | A P R | M A Y | J N | J | A U G | S E P | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M <br>  <br> R | A $\mathbf{P}$ R | M A Y | J U N | ${ }_{\text {u }}{ }_{\text {J }}$ | A U G | S E P |  |

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Exhibit P-21, Production Schedule: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3020F / 02 / 2| Cost Elements (Units in Each) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{o} \end{aligned}$ | $\begin{aligned} & \mathbf{M} \\ & \mathbf{F} \\ & \mathbf{R} \\ & \# \end{aligned}$ | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \hline \text { ACCEPT } \\ \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2020 \end{array}$ | BAL <br> AS OF 1 OCT |
|  | 2 | 2019 | NAVY ${ }^{(\ddagger)}$ | 75 | 0 | 75 |
|  | 2 | 2019 | Total | 165 | 0 | 165 |
|  | 2 | 2020 | AF | 130 | 0 | 130 |
|  | 2 | 2020 | FMS ${ }^{(\ddagger)}$ | 20 | 0 | 20 |
|  | 2 | 2020 | NAVY ${ }^{(\ddagger)}$ | 75 | 0 | 75 |
|  | 2 | 2020 | Total | 225 | 0 | 225 |
|  | 2 | 2021 | AF | 26 | 0 | 26 |
|  | 2 | 2021 | NAVY ${ }^{( \pm)}$ | 59 | 0 | 59 |
|  | 2 | 2021 | Total | 85 | 0 | 85 |
|  | 2 | 2022 | AF | 80 | 0 | 80 |
|  | 2 | 2022 | NAVY ${ }^{(\ddagger)}$ | 59 | 0 | 59 |
|  | 2 | 2022 | Total | 139 | 0 | 139 |

All Up Round - Block II Plus
Prior Years Deliveries: 50

| 3 | 2018 | AF | 75 | 7 | 68 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 2018 | FMS ${ }^{(\ddagger)}$ | 73 | 6 | 67 |
| 3 | 2018 | NAVY ${ }^{( \pm)}$ | 12 | 1 | 11 |
| 3 | 2018 | Total | 160 | 14 | 146 |
| 3 | 2019 | AF | 80 | 0 | 80 |
| 3 | 2019 | FMS ${ }^{(\ddagger)}$ | 146 | 0 | 146 |
| 3 | 2019 | NAVY ${ }^{(\ddagger)}$ | 8 | 0 | 8 |
| 3 | 2019 | Total | 234 | 0 | 234 |
| 3 | 2020 | AF | 11 | 0 | 11 |
| 3 | 2020 | NAVY ${ }^{(\ddagger)}$ | 8 | 0 | 8 |
| 3 | 2020 | Total | 19 | 0 | 19 |
| 3 | 2021 | AF | 80 | 0 | 80 |
| 3 | 2021 | FMS ${ }^{(\ddagger)}$ | 66 | 0 | 66 |
| 3 | 2021 | NAVY ${ }^{(\ddagger)}$ | 8 | 0 | 8 |
| 3 | 2021 | Total | 154 | 0 | 154 |
| 3 | 2022 | AF | 8 | 0 | 8 |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> Sidewinder (AIM-9X) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F/02/2 |  |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \end{aligned}$ |
| $\left\lvert\, \begin{aligned} & o \\ & c \\ & c \\ & o \end{aligned}\right.$ |  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |
|  |  | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2020 \end{array}$ | $\begin{gathered} \text { BAL } \\ \text { ADE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N O v | D E C | J A N | F E B | M A R | A P R | M A Y | J N | ${ }_{\text {J }}^{\text {u }}$ | A | S E P | - | N | D E C | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | A P P R | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathbf{U} \\ & \mathrm{~N} \end{aligned}$ | J | A | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
|  | 3 | 2022 | NAVY ${ }^{(t)}$ | 8 | 0 | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - |  | - |  |  | - | 8 |
|  | 3 | 2022 | Total | 16 | 0 | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - | - |  | - | - |  | - | 16 |
|  |  |  |  |  |  |  | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> P <br> R | M A Y | J N | ${ }_{\text {J }}^{\text {u }}$ | A | S E P | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br> P <br> R | M A Y | J U N | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> Sidewinder (AIM-9X) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
| $\begin{array}{\|l} \mathrm{o} \\ \mathrm{c} \\ \mathrm{c} \end{array}$ |  |  |  |  | ACCEPT |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
|  | $\begin{gathered} \mathbf{W} \\ \mathbf{F} \\ \mathbf{R} \\ \# \end{gathered}$ | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2022 \end{array}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N O v | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A P R | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { o } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | $\begin{aligned} & \text { J } \\ & \text { U } \end{aligned}$ | J u L | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
|  | 3 | 2022 | NAVY ${ }^{(t)}$ | \% | 0 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | 1 | - | 7 |
|  | 3 | 2022 | Total | 16 | 0 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | 2 | 1 | 13 |
|  |  |  |  |  |  |  | O c T | N | D E C | J A N | F E B | M A R | A <br> P <br> R | M A Y | J u N | J | A | S E P | O c T | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br> P <br> R | M A Y | J U N | J u L | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> Sidewinder (AIM-9X) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3020F / } 02 \text { / } 2$ |  |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2026 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \end{aligned}$ |
| $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{o} \end{aligned}$ |  |  |  |  | ACCEPT |  | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2026 |  |  |  |  |  |  |  |  |  |
|  | $\begin{gathered} \mathbf{W} \\ \mathbf{F} \\ \mathbf{R} \\ \# \end{gathered}$ | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2024 \end{array}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { v } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathbf{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J N | J u L | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
|  | 3 | 2022 | NAVY ${ }^{(\ddagger)}$ | 8 | 1 | 7 | 1 | - | 1 | - | 1 | 1 | 1 | 1 | 1 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  | 3 | 2022 | Total | 16 | 3 | 13 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - |  | - | - | - |  | - |  | - | - | 0 |
|  |  |  |  |  |  |  | - | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | M A ¢ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | ${ }_{\text {A }}^{\text {U }}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br> P <br> R | M A A | J U N | J | A U G | S |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X) |  |  |  |  | Item Number / Title [DODIC]: <br> Sidewinder (AIM-9X) |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2022 | 1-8-5 For 2022 | MAX For 2022 | 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 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ | ALT After Oct 1 | $\begin{array}{\|c\|} \hline \text { Manufacturing } \\ \text { PLT } \end{array}$ | Total After Oct 1 |
| 1 | Raytheon Missile Systems Tucson, AZ | 300 | 600 | 1,400 | 0 | 0 | 0 | 0 | 0 | 6 | 29 | 35 |
| 2 | Raytheon Missile Systems Tucson, AZ | 300 | 600 | 1,400 | 0 | 0 | 0 | 0 | 0 | 6 | 29 | 35 |
| 3 | Raytheon Missile Systems Tucson, AZ | 300 | 600 | 1,400 | 0 | 0 | 0 | 0 | 0 | 6 | 29 | 35 |

${ }^{(\ddagger)}$ 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).

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

| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical |  |  |  |  | P-1 Line Item Number / Title: MAMRAO I AMRAAM |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0207163F |  |  |  |  |
| Line Item MDAP/MAIS Code: 185 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | 10,165 | 220 | 268 | 168 | - | 168 | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 9,949.856 | 311.730 | 313.223 | 214.002 | - | 214.002 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 9,949.856 | 311.730 | 313.223 | 214.002 | - | 214.002 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 9,949.856 | 311.730 | 313.223 | 214.002 | - | 214.002 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 86.790 | 0.529 | 2.091 | 3.003 | - | 3.003 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | 0.979 | 1.417 | 1.169 | 1.274 | - | 1.274 | - | - | - | - | - | - |

## Description:

The Advanced Medium Range Air-to-Air Missile (AMRAAM) is the premier all-weather, all-environment radar guided missile developed jointly by the United States Air Force (USAF) and the United States Navy (USN). USAF is the lead service. AMRAAM is a small, light, fast missile with improved capabilities against very low and high-altitude targets in an Electronic Attack (EA) environment. Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

Any difference between the All Up Round (AUR) Unit Costs of the USAF and USN is the result of the variations in procurement of missile types by each service.
The FY 2022 funding request was reduced by $\$ 57.576$ million to account for the availability of prior year execution balances.
Funding for this exhibit contained in PE 0207163F.

*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:

 based on warfighter needs, which include assets used for training and Weapon System Evaluation Program (WSEP).

 future production capabilities and capacities.


Exhibit P-5, Cost Analysis: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3020F / 02 / 2
## P-1 Line Item Number / Title: MAMRAO / AMRAAM

Date: May 2021
Item Number / Title [DODIC]:
AMRAAM

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

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 10,165 | 220 | 268 | 168 | - | 168 |
| Gross/Weapon System Cost (\$ in Millions) | 9,949.856 | 311.730 | 313.223 | 214.002 | - | 214.002 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 9,949.856 | 311.730 | 313.223 | 214.002 | - | 214.002 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 9,949.856 | 311.730 | 313.223 | 214.002 | - | 214.002 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 86.790 | 0.529 | 2.091 | 3.003 | - | 3.003 |
| Gross/Weapon System Unit Cost (\$ in Millions) | 0.979 | 1.417 | 1.169 | 1.274 | - | 1.274 |

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

|  | Prior Years |  |  | FY 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |

## Hardware - Hardware End Item Cos

## Recurring Cost

| AIM-120 Missile All Up Round (AUR) ${ }^{(t)}$ | 1.033 | 1,980 | 2,044.845 | 0.984 | 220 | 216.427 | 0.981 | 228 | 223.623 | 0.973 | 168 | 163.399 | - | - | - | 0.973 | 168 | 163.399 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AIM-120 Missile Captive Air Training Missile (CATM) ${ }^{(\dagger)}$ | 0.635 | 444 | 281.823 | - | - | 0.000 | 0.561 | 40 | 22.431 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Warranty | - | - | 70.328 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Diminishing <br> Manufacturing <br> Sources/Material <br> Shortages (DMS/MS) | - | - | 483.792 | - | - | 57.318 | - | - | 31.595 | - | - | 16.615 | - | - | - | - | - | 16.615 |
| Tooling and Test Equipment | - | - | 131.718 | - | - | 1.378 | - | - | 3.766 | - | - | 2.502 | - | - | - | - | - | 2.502 |
| Engineering Change Orders | - | - | 2.755 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Total Prior Years Costs | 0.846 | 7,741 | 6,545.560 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 9,560.821 | - | - | 275.123 | - | - | 281.415 | - | - | 182.516 | - | - | - | - | - | 182.516 |
| Subtotal: Hardware - <br> Hardware End Item Cost | - | - | 9,560.821 | - | - | 275.123 | - | - | 281.415 | - | - | 182.516 | - | - | - | - | - | 182.516 |

## Ancillary Equipment - AncillaryEquipment End Item Cost

Cables
10.555 $\square$
$\square$

| Exhibit P-5, Cost Analysis: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: MAMRAO / AMRAAM |  |  |  |  |  |  |  | Item Number / Title [DODIC]: AMRAAM |  |  |  |  |
| 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 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Subtotal: Recurring Cost | - | - | 10.555 | - | - | 1.250 | - | - | 1.250 | - | - | 1.250 | - | - | - | - | - | 1.250 |
| Subtotal: Ancillary <br> Equipment - <br> AncillaryEquipment End Item Cost | - | - | 10.555 | - | - | 1.250 | - | - | 1.250 | - | - | 1.250 | - | - | - | - | - | 1.250 |
| Support - Support End Item Cos |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production Test/Support | - | - | 134.792 | - | - | 9.702 | - | - | 4.546 | - | - | 2.697 | - | - | - | - | - | 2.697 |
| PMA Other Government Costs | - | - | 15.537 | - | - | 2.468 | - | - | 2.056 | - | - | 2.517 | - | - | - | - | - | 2.517 |
| PMA Contractor Services | - | - | 23.137 | - | - | 2.595 | - | - | 2.697 | - | - | 2.751 | - | - | - | - | - | 2.751 |
| Training Equipment | - | - | 205.014 | - | - | 20.592 | - | - | 21.259 | - | - | 22.271 | - | - | - | - | - | 22.271 |
| Subtotal: Support - Support End Item Cost | - | - | 378.480 | - | - | 35.357 | - | - | 30.558 | - | - | 30.236 | - | - | - | - | - | 30.236 |
| Gross/Weapon System Cost | 0.979 | 10,165 | 9,949.856 | 1.417 | 220 | 311.730 | 1.169 | 268 | 313.223 | 1.274 | 168 | 214.002 | - | - | - | 1.274 | 168 | 214.002 |

## Remarks:

1) The FY20 Lot 34 Contract was awarded in March 2021. Under Buy to Budget Authority, the Air Force procured 74 missiles, 146 fewer than PB21 approved quantity of 220.
 are composite numbers for all AIM-120 variants.
2) The Production/Test Support cost element includes costs such as engineering studies, technical support, network security, and modification of special test assets.
 F-22, F-35 and test range infrastructure.
3) CATMS: Total Procurement objective includes CATMS \& AUR. Quantity subject to changes based on warfighter requirements.
$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  | P-1 Line Item Number / Title: MAMRAO I AMRAAM |  |  |  | Item Number / Title [DODIC]: AMRAAM |  |  |  |  |
| Cost Elements | O <br> c <br> 0 | FY | Contractor and Location | Method/Type or 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 |
| AIM-120 Missile All Up Round $(A \cup R)^{(\dagger)}$ |  | 2018 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | Eglin AFB | Mar 2018 | Jul 2020 | 185 | 1.072 | Y |  | Jan 2017 |
| AIM-120 Missile All Up Round (AUR) ${ }^{(\dagger)}$ |  | 2019 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | Eglin AFB | Dec 2019 | Apr 2021 | 187 | 1.023 | Y |  | Nov 2017 |
| AIM-120 Missile All Up Round $(A \cup R)^{(\dagger)}$ |  | 2020 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | Eglin AFB | Mar 2021 | Jul 2022 | 220 | 0.984 | Y |  | Sep 2018 |
| AIM-120 Missile All Up Round $(A \cup R)^{(+)}$ |  | 2021 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | Eglin AFB | Jul 2021 | Jul 2023 | 228 | 0.981 | Y |  | Sep 2018 |
| AIM-120 Missile All Up Round $(A \cup R)^{(\dagger)}$ |  | 2022 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | Eglin AFB | Jul 2022 | Jul 2024 | 168 | 0.973 | Y |  | Sep 2018 |
| AIM-120 Missile Captive Air Training Missile (CATM) ${ }^{(\dagger)}$ |  | 2021 | Raytheon Missile Systems / Tucson, AZ | SS/FPIF | Eglin AFB | Mar 2021 | Apr 2023 | 40 | 0.561 | Y |  | Sep 2018 |

${ }^{(t)}$ indicates the presence of a P-21
Remarks:
Unit Cost is quantity dependent; changes in total quantity directly impact unit price for USAF, USN, and Foreign Military Sales.

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| Exh | bit P | -21, Prod | ductio | ion Sc | hedul | P | 202 | Air | orc |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dat | May | 202 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| App <br> 302 | $\begin{aligned} & \text { ropri } \\ & \text { JF / } 0 \end{aligned}$ | iation / <br> 2 12 | Budge | et Acti | vity / |  |  |  |  |  |  |  | $\begin{aligned} & \text { Ling } \\ & \text { ARA } \end{aligned}$ |  |  | er / |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { Num } \\ & \text { AAM } \end{aligned}$ |  | Title | [DOD |  |  |  |
|  |  | $\begin{aligned} & \text { Cost EI } \\ & \text { (Units) } \end{aligned}$ | Each) |  |  |  |  |  |  |  |  | iscal | ar 202 |  |  |  |  |  |  |  |  |  |  | Fiscal | r 2021 |  |  |  |  |  | B ${ }_{\text {A }}$ |
|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  |  | enda | ar 202 |  |  |  |  |  |  |  |  | Calen | ar Yea | 2021 |  |  |  | $\stackrel{\text { L }}{ }$ |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|} \hline 0 & \mathrm{~F} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{O} & \end{array}$ | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \hline \text { PKIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2019 \end{array}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N |  |  | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathbf{P} \\ & \mathbf{R} \end{aligned}$ | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { A } \\ & \mathbf{U} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y } \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { u } \end{aligned}$ | ${ }_{\text {J }}^{\text {u }}$ | $\begin{aligned} & A \\ & U \\ & \text { U } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | L N C E |
| AIM-1 | 20 Miss | le All Up Rour | d (AUR) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | ears De | eliveries: 1608 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | AF | 185 | 0 | 185 | - | - | - | - |  | - | - | - | - | - | 103 | - | - | - | - | - | 82 |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | FMs ${ }^{( \pm)}$ | 279 | 0 | 279 | - | - | - | - |  | - | - | - | - | - | 138 | - | - | - | - | - | 141 |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | NAVY ${ }^{(4)}$ | 120 | 0 | 120 | - | - | - | - |  | - | - | - | - | - | 51 | - | - | - | - | - | 69 |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | Total | 584 | 0 | 584 | - | - | - |  |  | - | - | - | - | - | 292 | - | - | - | - | - | 292 | - | - | - | - | - | - | - | - | 0 |
| 1 | 2019 | AF | 187 | 0 | 187 |  |  | A - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 48 | - | - | 48 | - | - | 91 |
| 1 | 2019 | FMS ${ }^{(\ddagger)}$ | 434 | 0 | 434 |  |  | A - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 74 | - | - | 74 | - | - | 286 |
| 1 | 2019 | NAVY ${ }^{(4)}$ | 167 | 0 | 167 |  |  | A - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 41 | - | - | 42 | - | - | 84 |
| 1 | 2019 | Total | 788 | 0 | 788 |  |  | - | . |  | - | $\cdot$ | - | - | - | $\cdot$ | - | - | - | - | - | - | - | - | 163 | - | - | 164 | - | - | 461 |
| 1 | 2020 | AF | 220 | 0 | 220 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A | - | - | - | - | - | - | 220 |
| 1 | 2020 | FMS ${ }^{(4)}$ | 324 | 0 | 324 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 324 |
| 1 | 2020 | NAVY ${ }^{(4)}$ | 111 | 0 | 111 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 111 |
| 1 | 2020 | Total | 655 | 0 | 655 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - | - |  | - | - | - | - | 655 |
| 1 | 2021 | AF | 228 | 0 | 228 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | 228 |
| 1 | 2021 | FMS ${ }^{(\ddagger)}$ | 426 | 0 | 426 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | 426 |
| 1 | 2021 | NAVY ${ }^{(4)}$ | 95 | 0 | 95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | 95 |
| 1 | 2021 | Total | 749 | 0 | 749 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - | - | - | 749 |
| 1 | 2022 | AF | 168 | 0 | 168 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 168 |
| 1 | 2022 | FMS ${ }^{(4)}$ | 350 | 0 | 350 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 350 |
| 1 | 2022 | Total | 518 | 0 | 518 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 518 |
| AIM-1 | 20 Miss | Ie Captive Air | Training N | Missile (CA | ATM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | ears D | eliveries: 444 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2021 | AF | 40 | 0 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 40 |
|  |  |  |  |  |  | O c T | N O v | D E c | J A N |  | $\stackrel{F}{\mathrm{E}}$ | $\begin{gathered} \text { M } \\ \text { A } \end{gathered}$ | A <br> $\mathbf{P}$ <br> P | M A ¢ | J u N | ${ }^{\text {J }}$ | A | $\begin{aligned} & \hline \mathbf{S} \\ & E \end{aligned}$ | O c c | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \end{aligned}$ | M A R | $\begin{aligned} & \hline \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | M <br>  <br> ¢ | $\xrightarrow{\text { J }}$ | J | A | $\stackrel{\text { S }}{\text { E }}$ |  |

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| Exh | bit P | -21, Prod | ducti | ion Sch | hedul | : PB | 202 | Air | orce |  |  |  |  |  |  |  |  |  |  |  |  |  | Dat | Ma | 20 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { App } \\ & 3020 \end{aligned}$ | $\begin{aligned} & \text { ropri } \\ & \text { JF / } 0 \end{aligned}$ | iation / $02 \text { / } 2$ | Budg | et Acti | ivity / |  |  |  | vity: |  |  | Line RRA | Item |  | $\begin{aligned} & \text { jer / } \\ & 1 \end{aligned}$ |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { Nur } \\ & \text { AAN } \end{aligned}$ | ber | Titl | [DC | IC]: |  |  |
|  |  | $\begin{aligned} & \hline \text { Cost E } \\ & \text { (Units } \end{aligned}$ | $\begin{aligned} & \text { Iements } \\ & \text { in Each) } \end{aligned}$ |  |  |  |  |  |  |  | iscal | ar 2024 |  |  |  |  |  |  |  |  |  |  | Fiscal | ar 2025 |  |  |  |  |  | B ${ }_{\text {A }}$ |
|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  | enda | ear 202 |  |  |  |  |  |  |  |  | Cale | ar Y | 2025 |  |  |  | L |
|  | FY | SERVICE | proc QTY | TO 1 <br> OCT <br> 2023 | $\begin{aligned} & \text { DUE } \\ & \text { AS OF } \\ & \text { 1 OCT } \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | D <br> E <br> C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \mathbf{A} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J N | ${ }_{\text {J }}^{\text {u }}$ | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | N N C E |
| AIM-1 | 20 Miss | sile All Up Roun | nd (AUR) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | ears De | eliveries: 160 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | AF | 185 | 185 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | FMs ${ }^{(\ddagger)}$ | 279 | 279 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | NAVY ${ }^{(4)}$ | 120 | 120 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | Total | 584 | 584 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 1 | 2019 | AF | 187 | 187 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | FMS ${ }^{(4)}$ | 434 | 434 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | NAVY ${ }^{\left.()^{( }\right)}$ | 167 | 167 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | Total | 788 | 788 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | $\cdot$ | 0 |
| 1 | 2020 | AF | 220 | 220 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | FMs ${ }^{(\ddagger)}$ | 324 | 324 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | NAVY ${ }^{(4)}$ | 111 | 111 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2020 | Total | 655 | 655 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 1 | 2021 | AF | 228 | 57 | 171 | 57 | - | - | 57 | - | - | 57 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | FMs ${ }^{(\ddagger)}$ | 426 | 106 | 320 | 107 | - | - | 106 | - | - | 107 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | NAVY ${ }^{(4)}$ | 95 | 23 | 72 | 24 | - | - | 24 | - | - | 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | Total | 749 | 186 | 563 | 188 | - | - | 187 | - | - | 188 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 1 | 2022 | AF | 168 | 0 | 168 | - | - | - | - | - | - | - | - | - | 42 | - | - | 42 | - | - | 42 | - | - | 42 |  |  |  |  |  | 0 |
| 1 | 2022 | FMs ${ }^{(\ddagger)}$ | 350 | 0 | 350 | - | - | - | - | - | - | - | - | - | 87 | - | - | 88 | - | - | 88 | - | - | 87 |  |  |  |  |  | 0 |
| 1 | 2022 | Total | 518 | 0 | 518 | - | - | - | - | - | - | - | - | - | 129 | - | - | 130 | - | - | 130 | - | - | 129 | - | - | - | - | $\cdot$ | 0 |
| AIM-1 | 20 Miss | ile Captive Ai | Training | Missile (CA | ATM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | Years D | eliveries: 444 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2021 | AF | 40 | 20 | 20 | 10 | - | - | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | O c ¢ | N O | D | ${ }_{\text {J }} \mathrm{J}$ | F | M ${ }_{\text {M }}$ | A | M A | J | ${ }_{u}$ | A | S | O c ¢ | N | D | J A d | F | M ${ }_{\text {A }}$ | A | M A | J | J | A | $\stackrel{S}{\text { E }}$ |  |
|  |  |  |  |  |  | T | v | c | N | B | R | R | Y | N |  | G | P | T | v | c | N | B | R | R | Y | N | L | G | P |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> MAMRAO / AMRAAM |  |  |  |  | Item Number / Title [DODIC]: AMRAAM |  |  |
| $\begin{array}{\|c} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | Reo |  |  |
|  |  | MSR For 2022 | 1-8-5 For 2022 | MAX For 2022 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ | ALT <br> After Oct 1 | $\begin{gathered} \text { Manufacturing } \\ \text { PLT } \\ \hline \end{gathered}$ | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | $\begin{gathered} \hline \text { Manufacturing } \\ \text { PLT } \\ \hline \end{gathered}$ | Total After Oct 1 |
| 1 | Raytheon Missile Systems Tucson, AZ | $400{ }^{(1)}$ | 400 | 1,200 | 0 | 0 | 0 | 0 | 0 | 10 | 24 | 34 |
| 2 | Raytheon Missile Systems Tucson, AZ | 400 | 400 | 1,200 | 0 | 0 | 0 | 0 | 0 | 6 | 25 | 31 |

${ }^{(\ddagger)}$ 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:

 1,200 missiles.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical

## P-1 Line Item Number / Title:

PRDTA2 I Predator Hellfire Missile

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0305219F

| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2022$ <br> Total | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | 3,859 | 4,517 | 1,077 | - | 1,077 | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 299.631 | 183.549 | 103.684 | - | 103.684 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 299.631 | 183.549 | 103.684 | - | 103.684 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 299.631 | 183.549 | 103.684 | - | 103.684 | - | - | - | - | - | - |
| (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) | - | 0.070 | 0.036 | 0.085 | - | 0.085 | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | 0.078 | 0.041 | 0.096 | - | 0.096 | - | - | - | - | - | - |

## Description:

FY20 funding totals include 180.771 M appropriated for Overseas Contingency Operations.
FY21 funding totals include 143.420M appropriated for Overseas Contingency Operations.
FY22 funding totals include 56.833M requested for Direct War Requirements.
The Army is the Lead Service for the HELLFIRE Missile program with Air Force missiles being procured through the Army's Redstone Arsenal. HELLFIRE missiles (all variants) provide precision-kill capability and has become a key weapon in Overseas Contingency Operations (OCO). Laser HELLFIRE uses semi-active laser terminal guidance. The latest variant provides for point target precision strike and is effective against countermeasures. The HELLFIRE missiles are used by the MQ-9 Reaper aircraft.

HELLFIRE procurement funding supports the entire HELLFIRE system to include resolution of obsolescence, end-of-life buys, safety, insensitive munitions, reliability, weapon integration activities, test sets, engineering changes, modifications, facilitization, production ramp-up activities and production issues. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. HELLFIRE unit cost may vary based on procurement quantities of Lead Service, other Services and/or Foreign Military Sales (FMS) for HELLFIRE. Prior to FY08, HELLFIRE missiles were procured under the Predator PE 0305219F.

Note: These funds may also procure inventoried items which may not be procured on an annual basis and could be required on an emerging basis. Variations to cover critical shortfalls to inventory objectives as well as actual and planned expenditures will be addressed during execution year. Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S Code Section 2308 BUY-TO-BUDGET ACQUISITION.

Funding for this exhibit contained in PE 0201109F.

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

| Appr $3020$ | priation / Budget Activity / : Missile Procurement, Air Fo | Activity: ther Miss |  | BSA | Tactical | 1 Line Item Num RDTA2 / Preda | ber / Title: Hellfire Miss |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Cod | (A=Service Ready, B=Not Service Ready): A |  | gram | Elem | ts for Code B Ite | N/A | Other | lated Program E | ents: 0305219F |  |
| Line Ite | m MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |
|  | Exhibits |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| $\begin{gathered} \text { Exhibit } \\ \text { Type } \end{gathered}$ | Title* | Subexhibits | $\begin{array}{\|l\|l\|l\|l\|l\|} \hline \text { ID } \end{array}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAPI } \\ \text { MAlS } \\ \text { Code } \end{array}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) / (\$ M) | 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 | Predator Hellire Missile | P-5a, P-21 | A |  | - 1- | 3,859/299.631 | 4,517/183.549 | 1,077/103.684 | - 1- | 1,077/103.684 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1. | 3,859 / 299.631 | 4,517/183.549 | 1,077 / 103.684 | - 1. | 1,077 / 103.684 |

*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:


 based upon operational requirements for various warheads and the enhanced weapon engagement zone. The HELLFIRE missiles are used for test, training, and operations.
 for purchase through the Army.

Note: Budgeted Quantities should be 2270 for FY21. Based on current cost estimates, quantities should be 1176 for FY22.

Exhibit P-5, Cost Analysis: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3020F / 02 / 2
## P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile

Date: May 2021
Item Number / Title [DODIC]:
Predator Hellfire Missile

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

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 3,859 | 4,517 | 1,077 | - | 1,077 |
| Gross/Weapon System Cost (\$ in Millions) | - | 299.631 | 183.549 | 103.684 | - | 103.684 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 299.631 | 183.549 | 103.684 | - | 103.684 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 299.631 | 183.549 | 103.684 | - | 103.684 |
| (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) | - | 0.078 | 0.041 | 0.096 | - | 0.096 |

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

| Cost Elements | Prior Years |  |  | FY 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 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 <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Flyaway - Flyaway End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AGM-114 - All-up- <br> Rounds ${ }^{(\dagger)}$ | - | - | - | 0.070 | 3,859 | 270.130 | 0.036 | 4,517 | 160.744 | 0.085 | 1,077 | 91.279 | - | - | - | 0.085 | 1,077 | 91.279 |
| Subtotal: Recurring Cost | - | - | - | - | - | 270.130 | - | - | 160.744 | - | - | 91.279 | - | - | - | - | - | 91.279 |
| Subtotal: Flyaway - Flyaway End Item Cost | - | - | - | - | - | 270.130 | - | - | 160.744 | - | - | 91.279 | - | - | - | - | - | 91.279 |

Hardware - Hardware End Item Cost

| Recurring Cost |
| :--- |
| First Destination <br> Shipping charges |
| Subtotal: Recurring Cost |
| Subtotal: Hardware - <br> Hardware End Item Cost |
| Support - Support End Item C |
| Program Management <br> Administration |
| Production Engineering <br> Support |
| Subtotal: Support - Support <br> End Item Cost |
| Gross/Weapon System <br> Cost |

Remarks:

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| Exhibit P-5, Cost Analysis: PB 2022 Air Force |  | Date: May 2021 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 | P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile | Item Number / Title [DODIC]: Predator Hellfire Missile |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  | P-1 Line Item Number / Title: PRDTA2 I Predator Hellfire Missile |  |  |  | Item Number / Title [DODIC]: Predator Hellfire Missile |  |  |  |  |
| Cost Elements | O c 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 |
| AGM-114-All-up-Rounds ${ }^{(\dagger)}$ |  | 2020 | Lockheed Missile and Fire Ctrl / Orlando FL | MIPR | Redstone Arsenal, AL | Sep 2020 | Oct 2022 | 3,859 | 0.070 | Y |  | Dec 2016 |
| AGM-114 - All-up-Rounds ${ }^{(\dagger)}$ |  | 2021 | Lockheed Missile and Fire Ctrl / Orlando FL | MIPR | Redstone Arsenal, AL | Sep 2021 | Oct 2023 | 4,517 | 0.036 | Y |  | Dec 2018 |
| AGM-114 - All-up-Rounds ${ }^{(\dagger)}$ |  | 2022 | Lockheed Missile and Fire Ctrl/ Orlando FL | MIPR | Redstone Arsenal, AL | Sep 2022 | Oct 2024 | 1,077 | 0.085 | Y |  | Dec 2020 |

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

## Remarks:

Army Redstone Arsenal awarded a FPIF contract for FY18-21 all-up-round missile procurement September 2018.
Army Redstone Arsenal released a request for proposal in December 2020 for an FY22-25 all up round missile procurement contract.

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> Predator Hellfire Missile |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: PRDTA2 I Predator Hellfire Missile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\left\lvert\, \begin{gathered} \text { PROR } \\ \text { TO } 1 \\ \text { OCT } \\ 2019 \end{gathered}\right.$ | $\begin{gathered} \mathrm{BAL} \\ \text { DUE } \\ \text { AS OF } \\ 1 \mathrm{OCT} \end{gathered}$ | O c T | N V v | D E c | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A Y | J N | J u L | A | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | D E c | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | $\begin{aligned} & \mathrm{A} \\ & \mathbf{P} \\ & \mathbf{R} \end{aligned}$ | M A Y | J | J | A | S E P |  |
| AGM- | 14 - All | -up-Rounds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2020 | AF | 3,859 | 0 | 3,859 |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - |  | - | - |  | - | 3,859 |
| 1 | 2020 | ARMY ${ }^{(4)}$ | 5,112 | 0 | 5,112 |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - |  | - |  | - | - | 5,112 |
| 1 | 2020 | Total | 8,971 | 0 | 8,971 |  |  |  |  |  |  |  |  |  |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | 8,971 |
| 1 | 2021 | AF | 4,517 | 0 | 4,517 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | 4,517 |
| 1 | 2022 | AF | 1,077 | 0 | 1,077 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1,077 |
|  |  |  |  |  |  | O c T | N O v | D E c | J A N | F E B | M A R | A P R | M A Y | J U N | J | A | S E P | O c T | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | D E C | J A N | $\begin{aligned} & \hline F \\ & E \end{aligned}$ | M A R | A <br> P <br> R | M A Y | J | J | A U G | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> Predator Hellfire Missile |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|} \hline \mathrm{O} \\ \mathrm{c} & \mathrm{~F} \\ \mathrm{O} & \mathrm{R} \\ \mathrm{O} \end{array}$ | FY | SERVICE | PROC OTY | $\begin{gathered} \text { PRIOR } \\ \text { TO } \\ \text { OCT } \\ 2021 \end{gathered}$ | $\begin{gathered} \mathrm{BAL} \\ \mathrm{DUE} \\ \text { AS OF } \\ 1 \mathrm{OCT} \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \\ & \hline \end{aligned}$ | N 0 V | D E C | J A N | F E B | M A R | A P R | M A Y | J u | ${ }_{\text {u }}^{\text {u }}$ | A | S E P | $\begin{aligned} & \mathrm{O} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J u L | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| AGM- | 14 - Al | p-Rounds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2020 | AF | 3,859 | 0 | 3,859 | - | - | - | - | - | - | - | - | - | - | - | - | 321 | 321 | 321 | 321 | 321 | 322 | 322 | 322 | 322 | 322 | 322 | 322 | 0 |
| 1 | 2020 | ARMY ${ }^{()^{\prime}}$ | 5,112 | 0 | 5,112 | - | - | - | - | - | - | - | - | - | - | - | - | 427 | 427 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 425 | 425 | 0 |
| 1 | 2020 | Total | 8,971 | 0 | 8,971 | - | - | - | - | - | - | - | - | - | - | - | - | 748 | 748 | 747 | 747 | 747 | 748 | 748 | 748 | 748 | 748 | 747 | 747 | 0 |
| 1 | 2021 | AF | 4,517 | 0 | 4,517 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4,517 |
| 1 | 2022 | AF | 1,077 | 0 | 1,077 |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | 1,077 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | F E B | M A R | A <br> P <br> R | M A Y | J U | J u L | A | S <br>  <br> E <br> P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \hline \underset{B}{F} \\ & E_{B} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & A \\ & R \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \hline \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> Predator Hellfire Missile |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: PRDTA2 I Predator Hellfire Missile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC | $\begin{array}{\|c\|} \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2023 \\ \hline \end{array}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | D E C | $\begin{aligned} & J \\ & \text { J } \\ & \mathrm{N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M ${ }_{\text {M }}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \text { A } \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & J \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A Y | J N | J u L | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| AGM- | 14 - Al | -up-Rounds |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2020 | AF | 3,859 | 3,859 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | ARMY ${ }^{(4)}$ | 5,112 | 5,112 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | Total | 8,971 | 8,971 | 0 | - | $\cdot$ | - | $\cdot$ | - | - | - | - | - | $\cdot$ | - | - | - | - | - | - | - | - | - |  | - | - | $\cdot$ | - | 0 |
| 1 | 2021 | AF | 4,517 | 0 | 4,517 | 377 | 377 | 377 | 377 | 377 | 376 | 376 | 376 | 376 | 376 | 376 | 376 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2022 | AF | 1,077 | 0 | 1,077 | - | - | - | - | - | - | - | - | - | - | - | - | 90 | 90 | 90 | 90 | 90 | 90 | 90 |  | 90 | 89 | 89 | 89 | 0 |
|  |  |  |  |  |  | O c T | N | L | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A <br> P <br> R | M A Y | $\begin{aligned} & \hline \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | u | $\begin{aligned} & \mathrm{A} \\ & \mathrm{U} \\ & \mathrm{G} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br> P <br> R | M A Y | J U N | J | A U G | S <br>  <br> $\mathbf{E}$ <br> $\mathbf{P}$ |  |


| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> PRDTA2 I Predator Hellfire Missile |  |  |  |  | Item Number / Title [DODIC]: Predator Hellfire Missile |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | MSR For 2022 | 1-8-5 For 2022 | MAX For 2022 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Lockheed Missile and Fire Ctrl - Orlando FL | 1,200 | 6,000 | 11,000 | 0 | 12 | 25 | 37 | 0 | 0 | 0 | 0 |

[^0]MSR and MPR consist of the sum of USAF, USN, Army, approved FMS, and Joint-Air-to-Ground Missile (JAGM) procurements for the year.
JAGM guidance section is integrated with the HELLFIRE II propulsion, warhead, and control section, and shares the HELLFIRE production capacity. Reference BP20 JAGM00 for JAGM procurement.
FMS orders are procured through the Army and are funded through a separate Line Item.
${ }^{(\ddagger)}$ 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).

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## Appropriation / Budget Activity / Budget Sub Activity:

## 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical

Program Elements for Code B Items: N/A
Other Related Program Elements: 0207327F

| ID Code (A=Service Ready |  |  | Program Ele | nts for Cod | B Items: |  |  | ther Rela | rogram | ents: 0 | 27 F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 439 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | 34,021 | 7,078 | 2,462 | 998 | - | 998 | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 1,744.063 | 273.288 | 95.827 | 82.819 | - | 82.819 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,744.063 | 273.288 | 95.827 | 82.819 | - | 82.819 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,744.063 | 273.288 | 95.827 | 82.819 | - | 82.819 | - | - | - | - | - | - |
| (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) | 0.048 | 0.032 | 0.030 | 0.060 | - | 0.060 | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | 0.051 | 0.039 | 0.039 | 0.083 | - | 0.083 | - | - | - | - | - | - |

## Description:

FY21 funding totals include $\$ 50.352 \mathrm{M}$ appropriated for Overseas Contingency Operations (OCO).
FY22 funding totals include $\$ 22.245 \mathrm{M}$ requested for Direct War Requirements.
GBU-39/B: Small Diameter Bomb Increment I (SDB I) is an Air Force ACAT II program providing increased kills per sortie on current and future aircraft platforms. SDB I addresses the following specific warfighter requirements: multiple kills per pass; multiple ordnance carriage; adverse weather; precision munitions capability; capability against fixed and stationary targets; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; reduced susceptibility of munitions to countermeasures; and standoff or Close Air Support (CAS) operational capability. Threshold aircraft is the F-15E. Objective aircraft include: F-22A, F-16C/D Block 30/40/50, F-35A, B-1, A-10, B-52, B-21, MQ-9, and AC-130W/J. Integrated platforms include: F-15E, F-22A, AC-130W/J, F-16C/D Block 30/40/50, and F-35A. SDB I completed IOT\&E in Jun 2006 and commenced Full Rate Production (FRP) in Dec 2006.

GBU-39A/B: Small Diameter Bomb I Focused Lethality Munition (FLM) is a low collateral damage variant of SDB I. FLM has a carbon fiber warhead case which disintegrates upon fill detonation, minimizing fragmentation effects to personnel and property.

GBU-39B/B: Laser SDB is a laser variant of the baseline SDB I. Laser SDB is a 250-pound class, air-launched weapon with deployable wings to achieve standoff range, has a laser seeker to self-target and a GPS-only mode, has a height-of-burst (HOB) fuze to provide selectable weapons effects, and has a penetration warhead.

SDB I weapons and weapon containers are procured together as a system. Individual containers can be procured separately as requirements dictate. SDB I procurement supports current combat operations and replenishment of SDB I weapons and its variants used in these operations. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. For example the integration of a qualified Strategic Anti-Jam Beam-forming Receiver (SABR-Y) and M-Code capable GPS receivers. Funding may also be used to resolve performance deficiencies identified in the system. This will be accomplished through studies, bridge buys, life of type buys, supplier/parts replacement, and qualification (including flight/ground test activities) to preserve future production capabilities and capacities.

GBU-53/B: Small Diameter Bomb Increment II (SDB II) quantities and Obligation Authority were included in SDB000 for FY18 and earlier. Reference BP20 SDB002 for the SDB II FY19 and out-years.
Funding for this exhibit contained in PE 0207327F.

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical |  |  |  |  |  | P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb |  |  |  |  |
| ID Cod | ( $\mathrm{A}=$ Service Ready, B=Not Service Rea | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0207327F |  |  |  |
| Line Item MDAP/MAIS Code: 439 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \mathrm{ID} \\ \mathrm{CD} \end{array}$ | $\begin{aligned} & \text { MDAP/I } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Quantity / Total Cost (Each) I(\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | Small Diameter Bomb | P-5a, P-21 | A |  | 34,021 / 1,744.063 | 7,078/273.288 | 2,462 / 95.827 | 998/82.819 | - 1 | 998/82.819 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 34,021 / 1,744.063 | 7,078/273.288 | 2,462 / 95.827 | 998/82.819 | 1. | 998/82.819 |

*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:
FY22 budget request will procure 998 weapons, to include 371 weapons procured for Direct War Requirements, needed to replenish operational expenditures.
Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S Code Section 2308 BUY-TO-BUDGET ACQUISITION.
Note: Budgeted quantities should be 5371 for FY20. Based on current cost estimates, quantities should be 1217 for FY21.

Exhibit P-5, Cost Analysis: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3020F / 02 / 2
## P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb

Date: May 2021

## Item Number / Title [DODIC]:

Small Diameter Bomb

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


LI SDB000 - Small Diameter Bomb Air Force

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| Exhibit P-5, Cost Analysis: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> Small Diameter Bomb |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 Total |  |  |
| Cost Elements | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) |
| Subtotal: Support - Support End Item Cost | - | . | 106.765 | . | . | 46.308 | - | . | 22.785 | - | . | 22.642 | - |  | - | - | . | 22.642 |
| Gross/Weapon System Cost | 0.051 | 34,021 | 1,744.063 | 0.039 | 7,078 | 273.288 | 0.039 | 2,462 | 95.827 | 0.083 | 998 | 82.819 | - |  | - | 0.083 | 998 | 82.819 |

## Remarks:

Budgeted quantities should be 5371 for FY20, to include 200 Focused Lethality Munitions, with a unit cost of $\$ 0.040 \mathrm{M}$. Based on the most recent cost estimates, quantities should be 1217 for FY 21 with a unit cost of $\$ 0.060 \mathrm{M}$.

FY22 Base and Direct War funding procures SDB I weapons. $\$ 19.9 \mathrm{M}$ in FY21 and $\$ 7.652 \mathrm{M}$ in FY 22 is budgeted for M-Code Integration to meet the requirement mandated by Public Law 111-383. $\$ 21.759 \mathrm{M}$ in FY20 is for SABR Y integration. Unit cost increase due to procurement of SDB I weapons integrated with SABR-Y in FY21 and FY22.

Increased production testing costs in FY22 for M-code test and evaluation.
\$22M obsolescence cost in FY20 for Bomb Rack Unit to fix a conformance issue with the SDB lug.
PMA Contractor Services: Engineering, Professional, and Administrative Support Services (EPASS) contract support PMA Other Government Costs: Travel, Government Purchase Card (GPC) and Central Support
${ }^{(\dagger)}$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  | P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb |  |  |  | Item Number / Title [DODIC]: Small Diameter Bomb |  |  |  |  |
| 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 |
| SDB Increment ${ }^{\left({ }^{(+)}\right.}$ |  | 2018 | Boeing / St Louis MO | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Aug 2018 | Apr 2020 | 6,827 | 0.035 | Y |  | Jan 2018 |
| SDB Increment ${ }^{(+)}$ |  | 2019 | Boeing / St Louis MO | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Sep 2020 | Mar 2021 | 5,069 | 0.036 | Y |  | Jul 2018 |
| SDB Increment $1^{\left({ }^{(+)}\right.}$ |  | 2020 | Boeing / St Louis MO | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Nov 2020 | May 2021 | 6,878 | 0.031 | Y |  | Jan 2020 |
| SDB Increment $\mathrm{I}^{(+)}$ |  | 2021 | Boeing / St Louis MO | SS /FPIF | AFLCMC/PK Eglin AFB, FL | Nov 2021 | Jan 2023 | 2,462 | 0.030 | Y |  | Jan 2021 |
| SDB Increment ${ }^{\left({ }^{(+)}\right.}$ |  | 2022 | Boeing / St Louis MO | SS /FPIF | AFLCMC/PK Eglin AFB, FL | Nov 2022 | Jan 2024 | 998 | 0.060 | Y |  | Jan 2022 |

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

## Remarks:

1. SDB I FY18 funds were obligated on the Lot 14 contract and the Focused Lethality Munition (FLM) UCA, both awarded in August 2018. Remaining FLM will be procured in Lot 15 .
2. SDB I FY19 funds will obligate on Lot 15 contract to award in September 2020.
3. SDB I FY20 funds will obligate on Lot 16 contract to award in November 2020. Includes funding to procure 200 FLM on Lot 16 contract. Budgeted quantities should be 5171 for $\operatorname{FY} 20$ with a unit cost of $\$ 0.041$.
 $\$ 0.060 \mathrm{M}$. Unit cost increase in FY21 due to procurement of SDB I weapons integrated with SABR-Y.
4. SDB I FY22 funding to obligate on Lot 18 contract in 1QFY23.

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> SDB000 / Small Diameter Bomb |  |  |  |  | Item Number / Title [DODIC]: <br> Small Diameter Bomb |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2022 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2022 | 1-8-5 For 2022 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ |  | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 |
| 1 | Boeing - St Louis MO | 1,000 | 5,000 | 8,000 | 0 | 0 | 0 | 0 | 0 | 14 | 14 | 28 |

## Remarks:

FY18 deliveries in December 2020 are a result of remaining FY18 funding being obligated with Lot 15 contract award in September 2020.
FY20 deliveries in May-August 2021 are a result of FY20 funding being obligated on the Lot 15 contract. Remaining FY20 deliveries are on the Lot 16 contract.
FY20 deliveries in January 2023 are a result of remaining FY20 funding being obligated with Lot 17 contract award in November 2021
SDB I - As a result of contractor facilitization, SDB I maximum production capacity increased from 5,000 to 8,000 weapons (includes USAF and FMS quantities)
( $\ddagger$ ) 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.
${ }^{(\ddagger)}$ 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).

## Appropriation / Budget Activity / Budget Sub Activity:

3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical

## P-1 Line Item Number / Title:

SDB002 I SMALL DIAMETER BOMB II

ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0207327F
Other Related Program Elements: 0207327F

| Line Item MDAP/MAIS Code: 439 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\text { FY } 2022$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | 510 | 727 | 743 | 985 | - | 985 | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 110.771 | 183.279 | 209.972 | 294.649 | - | 294.649 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 110.771 | 183.279 | 209.972 | 294.649 | - | 294.649 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 110.771 | 183.279 | 209.972 | 294.649 | - | 294.649 | - | - | - | - | - | - |
| (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) | 0.121 | 0.134 | 0.137 | 0.181 | - | 0.181 | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | 0.217 | 0.252 | 0.283 | 0.299 | - | 0.299 | - | - | - | - | - | - |

## Description:






 weapon storage container (USAF) and a dual weapon storage container (DoN). SDB II is a key component of the Air Force Global Strike Task Force CONOPs.



 modification schedule and completion of Multi-Service Operational Test and Evaluation (MOT\&E) Phase II. DoN's first production lot (Lot 4) supports F/A-18E/F IOC.




 replacement, re-designs and re-qualification.





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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical |  |  |  |  |  | P-1 Line Item Number / Title: SDB002 I SMALL DIAMETER BOMB II |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Rea | Program Elements for Code B Items: 0207327F |  |  |  |  | Other Related Program Elements: 0207327F |  |  |  |
| Line Item MDAP/MAIS Code: 439 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAPI } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | SMALL DIAMETER BOMB II | P-5a, P-21 | B |  | $510 / 110.771$ | 727/183.279 | 743/209.972 | 985/294.649 | 1. | 985/294.649 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | $510 / 110.771$ | 727/183.279 | 743/209.972 | 985/294.649 | - 1 - | $985 / 294.649$ |

*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 FY 2021 budget received Congressional Marks of 60.9 M for All-Up-Round unit cost adjustment, and 2.4M for container unit cost growth; totaling 63.3 M



 for Lot 9 weapons. The Lot 8 contract and Lot 9 option are inclusive of both USAF and DoN production quantities. SDB II FY 2022 quantity is 985 weapons.

 SDB000.

Exhibit P-5, Cost Analysis: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3020F / 02 / 2
## P-1 Line Item Number / Title: SDB002 / SMALL DIAMETER BOMB II

Date: May 2021
Item Number / Title [DODIC]:
SMALL DIAMETER BOMB II

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

| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2020 |  | FY 2021 |  | FY 2022 Base |  |  | FY 2022 OCO |  | FY 2022 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | 510 |  | 727 |  | 74 |  |  | 985 |  | - |  | 985 |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 110.771 |  | 183.279 |  | 209.972 |  |  | 649 |  | - |  | 294.649 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 110.771 |  | 183.279 |  | 209.972 |  |  | 649 |  | - |  | 294.649 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 110.771 |  | 183.279 |  | 209.972 |  |  | 649 |  | - |  | 294.649 |
| (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) |  |  |  |  |  |  | 0.217 |  | 0.252 |  | 0.28 |  |  | 299 |  | - |  | 0.299 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2020 |  |  | FY 2021 |  |  | FY 2022 Base |  |  | FY 2022 OCO |  |  | FY 2022 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SDB Increment II All Up Round Weapon ${ }^{(t)}$ | 0.103 | 510 | 52.549 | 0.204 | 727 | 7 148.653 | 0.199 | 743 | 147.857 | 0.218 | 985 | 214.887 | - | - | - | 0.218 | 985 | 214.887 |
| Weapon Containers | - | - | 1.630 | - | - | 3.614 | - | - | 4.248 | - | - | 8.451 | - | - | - - | - | - | 8.451 |
| Test Vehicle | - | - | 7.432 | - | - | 5.132 | - | - | 3.048 | - | - | 3.130 | - | - | - - | - | - | 3.130 |
| Subtotal: Recurring Cost | - | - | 61.611 | - | - | 157.399 | - | - | 155.153 | - | - | 226.468 | - | - | - - | - | - | 226.468 |
| Subtotal: Flyaway - Small Diameter Bomb II Cost | . | - | 61.611 | . | . | 157.399 | - | . | 155.153 | - | - | 226.468 | - | - | - - | - | . | 226.468 |
| Support - Small Diameter Bomb II Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Training Equipment | - | - | 0.089 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | - - | - | - | 0.000 |
| Operational Flight Program Updates \& Test | - | - | 10.743 | - | - | 6.283 | - | - | 16.947 | - | - | 12.866 | - | - | - - | - | - | 12.866 |
| Logistics Support | - | - | 1.070 | - | - | 1.189 | - | - | 1.233 | - | - | 1.254 | - | - | - - | - | - | 1.254 |
| Production Testing | - | - | 2.349 | - | - | 2.586 | - | - | 22.875 | - | - | 22.100 | - | - | - - | - | - | 22.100 |
| PMA Contractor Services | - | - | 3.742 | - | - | 5.570 | - | - | 4.097 | - | - | 4.099 | - | - | - | - | - | 4.099 |
| PMA Other Government Costs | - | - | 1.163 | - | - | 0.898 | - | - | 0.917 | - | - | 0.934 | - | - | - | - | - | 0.934 |
| Product Support/ Obsolescence | - | - | 30.004 | - | - | 9.354 | - | - | 8.750 | - | - | 26.928 | - | - | - | - | - | 26.928 |
| Subtotal: Support - Small Diameter Bomb II Cost | - | - | 49.160 | - | - | 25.880 | - | - | 54.819 | - | - | 68.181 | - | - | - - | - | - | 68.181 |
| Gross/Weapon System Cost | 0.217 | 510 | 110.771 | 0.252 | 727 | 7 183.279 | 0.283 | 743 | 209.972 | 0.299 | 985 | 294.649 | - | - | - | 0.299 | 985 | 294.649 |

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| Exhibit P-5, Cost Analysis: PB 2022 Air Force |  | Date: May 2021 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 | P-1 Line Item Number / Title: SDB002 I SMALL DIAMETER BOMB II | Item Number / Title [DODIC]: SMALL DIAMETER BOMB II |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  | MDAP/MAIS Code: |
|  |  |  |
| PMA Other Government Costs: Travel, Government Purchase card (GPC), and Central Support |  |  |
| Product Support/Obsolescence: DMSMS Activities, Interim Contractor Support (Raytheon), Encryption Chips, Cost Reduction and Shipping |  |  |
| Increase in FY22 funding supports obsolescence activities and to ensure ongoing weapon production. In previous fiscal years, Obsolescence was included in Product Support and SDB II All Up Round weapon costs. It has been broken out for transparency. |  |  |
| Reference BP20 SDB000 for SDB II FY18 and prior years. SDB II total procurement costs in this document only include 10,724 USAF weapons, the remaining 1,276 USAF weapons were procured in BP20 SDB000. |  |  |
| ${ }^{(t)}$ indicates the presence of a P-5a |  |  |

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| Exhibit P-5a, Procurement History and Planning: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 <br> Item Number / Title [DODIC]: <br> SMALL DIAMETER BOMB II |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  | P-1 Line Item Number / Title: SDB002 I SMALL DIAMETER BOMB II |  |  |  |  |  |  |  |  |
| 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 |
| SDB Increment II All Up Round Weapon $\left.^{( }{ }^{+}\right)$ |  | 2019 | Raytheon / Tucson AZ | SS/FFP | AFLCMC/PK Eglin AFB, FL | Dec 2018 | Jun 2021 | 510 | 0.120 | N | Aug 2018 | Oct 2009 |
| SDB Increment II All Up Round Weapon $^{( }{ }^{()}$ |  | 2020 | Raytheon / Tucson AZ | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Oct 2020 | Mar 2022 | 727 | 0.204 | N | Aug 2019 | Oct 2018 |
| SDB Increment II All Up Round Weapon $^{(\dagger)}$ |  | 2021 | Raytheon / Tucson AZ | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Apr 2021 | Apr 2023 | 743 | 0.199 | N | Aug 2020 | Oct 2019 |
| SDB Increment II All Up Round Weapon $^{(\dagger)}$ |  | 2022 | Raytheon / Tucson AZ | SS/FPIF | AFLCMC/PK Eglin AFB, FL | Mar 2022 | Apr 2024 | 985 | 0.218 | N | Aug 2021 | Oct 2020 |

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

## Remarks:


2. SDB II Lots 4-5 (FY 2018-FY 2019) are Firm Fixed Price contracts.
3. SDB II Lot 6 (FY 2020) awarded as Fixed Price Incentive Firm contract
4. SDB II Lot 7 (FY 2021) to be negotiated as Fixed Price Incentive Firm contract.
 cost and quantities will be provided once the contract is awarded.

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 Item Number / Title [DODIC]: SMALL DIAMETER BOMB II |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F/02/2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: SDB002 I SMALL DIAMETER BOMB II |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & A \\ & A \\ & A \\ & A \\ & C \\ & C \\ & \hline \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{aligned} & \text { TO } 1 \\ & \text { OCT } \\ & 2018 \end{aligned}$ | $\begin{gathered} \mathrm{DAL} \\ \text { DUE } \\ \text { AS OF } \\ 10 \mathrm{OCT} \end{gathered}$ | O c T | N | D E C | J A N | F E B | M A R | A P R | M A Y | J N | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{U} \\ & \mathrm{G} \end{aligned}$ | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \text { A } \end{aligned}$ | F E B | M A R | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J N | J u L | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| SDB In | cremen | tII All Up R | und Weapo |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2019 | AF | 510 | 0 | 510 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 510 |
| 1 | 2019 | NAVY ${ }^{(\ddagger)}$ | 750 | 0 | 750 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | 750 |
| 1 | 2019 | Total | 1,260 | 0 | 1,260 |  |  | - | - | - | $\cdot$ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,260 |
| 1 | 2020 | AF | 727 | 0 | 727 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 727 |
| 1 | 2020 | NAVY ${ }^{(\ddagger)}$ | 461 | 0 | 461 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 461 |
| 1 | 2020 | Total | 1,188 | 0 | 1,188 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1,188 |
| 1 | 2021 | AF | 743 | 0 | 743 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 743 |
| 1 | 2021 | NAVY ${ }^{(\ddagger)}$ | 357 | 0 | 357 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 357 |
| 1 | 2021 | Total | 1,100 | 0 | 1,100 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1,100 |
| 1 | 2022 | AF | 985 | 0 | 985 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 985 |
| 1 | 2022 | NAVY ${ }^{(\ddagger)}$ | 364 | 0 | 364 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 364 |
| 1 | 2022 | Total | 1,349 | 0 | 1,349 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1,349 |
|  |  |  |  |  |  | 0 c c | N O v | D E c | J A N | F | M A R | A P R | M A Y | J U N | J | A U G | S E P | O c T | N O v | D E c | J A N | F | M A R | A P R | M A Y | J | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: SDB002 I SMALL DIAMETER BOMB II |  |  |  |  |  |  |  |  |  |  |  | Item Number / Title [DODIC]: SMALL DIAMETER BOMB II |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  | FY | SERVICE | PROCQTY | $\square$ | $\begin{array}{\|c\|} \hline \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{array}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & J \\ & \text { A } \\ & \mathrm{N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathbf{A} \\ & \mathbf{P} \\ & \mathbf{R} \\ & \hline \end{aligned}$ | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{U} \\ & \mathrm{G} \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & 0 \\ & \text { c } \\ & \text { T } \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \text { U } \\ & G \end{aligned}$ | $\begin{aligned} & \mathbf{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| SDB Increment II All Up Round Weapon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2019 | AF | 510 | 0 | 510 | - | - | - | - | - | - | - | - | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 54 |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | NAVY ${ }^{(4)}$ | 750 | 0 | 750 | - | - | - | - | - | - | - | - | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 78 |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | Total | 1,260 | 0 | 1,260 | - | - | - | - | - | - | - | - | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 132 | - | - | - | - | - | - | - | 0 |
| 1 | 2020 | AF | 727 | 0 | 727 | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 300 |
| 1 | 2020 | NAVY ${ }^{(4)}$ | 461 | 0 | 461 | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 195 |
| 1 | 2020 | Total | 1,188 | 0 | 1,188 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 495 |
| 1 | 2021 | AF | 743 | 0 | 743 |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 743 |
| 1 | 2021 | NAVY ${ }^{(4)}$ | 357 | 0 | 357 |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 357 |
| 1 | 2021 | Total | 1,100 | 0 | 1,100 |  |  |  |  |  |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,100 |
| 1 | 2022 | AF | 985 | 0 | 985 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 985 |
| 1 | 2022 | NAVY ${ }^{(4)}$ | 364 | 0 | 364 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 364 |
| 1 | 2022 | Total | 1,349 | 0 | 1,349 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - | - | - | - | - | - | - | 1,349 |
|  |  |  |  |  |  | - | N 0 0 | D | ${ }_{\text {J }}$ | F | M | A P | M A | J | u | A | S | - | N | D | ${ }_{\text {A }}$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | ${ }_{\text {M }}^{\text {M }}$ | A | M A | J | ${ }^{\text {J }}$ | A | $\stackrel{\text { S }}{\text { E }}$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-21, Production Schedule: PB 2022 Air Force |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: SDB002 I SMALL DIAMETER BOMB II |  |  |  |  | Item Number / Title [DODIC]: SMALL DIAMETER BOMB II |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2022 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2022 | 1-8-5 For 2022 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Raytheon - Tucson AZ | 1,140 | 1,925 | 2,119 | 0 | 0 | 0 | 0 | 0 | 6 | 25 | 31 |

## Remarks:

SDB II - Annual production for the program's first four LRIP quantity buys may be below the Minimum Sustainment Rate (MSR) due to the MSR being applicable to Lot 5 and out.
 below MSR due to the program operating as buy-to-budget.
${ }^{(\ddagger)}$ 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).

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

## P-1 Line Item Number / Title:

000042 / Industr'I Preparedns/Pol Prevention

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 5: Industrial

 Facilities| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | ments for Cod | B Items: |  |  | Other Related | Program E | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.801 | 0.814 | 0.757 | - | 0.757 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.801 | 0.814 | 0.757 | - | 0.757 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.801 | 0.814 | 0.757 | - | 0.757 | - | - | - | - | - | - |
| (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 Industrial Preparedness program element combines the resources of several appropriations (Aircraft Procurement, Missile Procurement, and Operation and Maintenance) to create a comprehensive program that aids in ensuring the defense industry can supply reliable, safe, affordable systems to operational commanders.

The Missile Procurement part of Industrial Preparedness supports the management and upkeep of Air Force Plant 44, Tucson, AZ. This includes capital type rehabilitation (MPC 3000) projects for repair and expansion, major capital rehabilitation, construction, demolition, equipment, property appraisals and energy conservation; and environmental compliance (MPC 7000) efforts to ensure compliance with federal, state and local regulatory requirements. The environmental compliance program includes efforts to enhance compliance through pollution prevention reducing controlled emissions and use of hazardous materials. Air Force Plant 44 is the backbone of Department of Defense (DoD) weapon systems assembly and maintenance supporting Storm Breaker, AMRAAM, Javelin, Griffin, Phalanx, Sidewinder, Standard Missiles, Stinger, Tomahawk, and numerous other weapon system. Funds are also provided within this appropriation to assess space-related industrial base concerns (MPC 6000).

Funding for this exhibit is contained in PE 78011F

## Justification:

FY2022 funds environmental compliance (MPC 7000) and capital type rehabilitation (MPC 3000) programs, at Air Force Plant 44, a unique defense asset which supports the production of several missile systems for the Air Force and the Navy. Also includes space-related industrial base assessments (MPC 6000).

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / <br> BSA 1: Class IV |  |  |  |  |  | P-1 Line Item Number / Title: 21SPEC / Spectrum Funds |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.003 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.003 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.003 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Description: <br> No text provided. |  |  |  |  |  |  |  |  |  |  |  |  |

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Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles /
BSA 1: Class IV

## P-1 Line Item Number / Title: <br> M30FLH / ICBM FUZE MOD

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0604933F | Other Related Program Elements: 0604933F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: 498

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 51.619 | 5.000 | 0.000 | 57.113 | - | 57.113 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | 0.000 | 0.000 | 4.100 | - | 4.100 | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 51.619 | 5.000 | 0.000 | 53.013 | - | 53.013 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | 4.100 | 14.497 | 43.450 | 47.757 | - | 47.757 | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 55.719 | 19.497 | 43.450 | 100.770 | - | 100.770 | - | - | - | - | - | - |
| (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:

Prior year funding includes 18.4M which was executed in PE 0101213F, M30MLG, MM III Modifications. Funding for this exhibit contained in PE 010328F

 deployed and 50 non-deployed ICBMs.






 by USSTRATCOM and AFGSC.






 6.6. The program is forecasted to complete a Milestone C decision in 4QFY2021 and a Full Rate Production Decision in 2 QFY2024.

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Page 1 of 7
P-1 Line \#15
Volume 1-115

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

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- |
| 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / | M30FLH / ICBM FUZE MOD |
| BSA 1: Class IV |  |


| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0604933F | Other Related Program Elements: 0604933F |
| :--- | :--- | :--- | :--- |
| Line Item MDAP/MAIS Code: 498 |  |  |

## Line Item MDAP/MAIS Code: 498

## Life of Program Buy

The ICBM Fuze Modernization program will procure Application Specific Integrated Circuit (ASIC), Heterojunction Bipolar Transistor (HBT), and power source components produced by the National Nuclear Security Administration's (NNSA) Sandia Production facility as a Life of Program Buy (LOPB) in FY2022. The NNSA Office of Stockpile Management (NA-12) procurement strategy for the ICBM Fuze Modernization program is structured to ensure the production schedule requirements are met and to avoid impacting the W80-4 LEP, and W87-1 Modification program schedules. The NNSA requires DoD funding that is in alignment with the planned production runs in order to meet NNSA's production commitments. This is the only viable approach given there is neither component availability nor process capacity on any other schedule.

Purchasing components in a single production run or lot to support joint production activities is required to manage capacity and resource conflicts in the production workload within NNSA. NNSA has a large number of current and pending modernization activities necessitating careful planning and coordination among related programs that rely on the same vendors, components, and plant production space. Funding and building these components as a Life of Program Buy (LOPB) is critical to maintaining production line availability and schedule for the Mk21 ICBM Fuze Modernization, W88 Alt 370, B61-12 LEP, W87-1 Modification, and W80-4 LEP programs.

Long Lead Production
The ICBM Fuze Modernization program continues to require advance procurement authority in FY2022 to procure long lead items (Model XI sensor hardware, Thermal Protection Device (TPD) connectors, cable assemblies, connector assemblies, and Commercial Off-the-Shelf (COTS) components for the Radar Module, Pathlength Module (PLM), Missile Interface \& Controller Module (MICM), Firing Set Interface Module (FSIM), and Launch Safety Device Assembly (LSDA)). Advance procurement needs increased due to a better understanding of the materials required in advance to align with actual quantities procured. Failure to procure the parts will result in delayed fuze production and fielding activities.

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / <br> BSA 1: Class IV |  |  |  |  |  | P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0604933F |  |  |  |  | Other Related Program Elements: 0604933F |  |  |  |
| Line Item MDAP/MAIS Code: 498 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | 5915 / ICBM Fuze Modernization (Service Life Extension) |  | B |  | - /51.619 | - 15.000 | - 10.000 | - 157.113 | - 10.000 | - $/ 57.113$ |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 151.619 | - 15.000 | - 10.000 | - 157.113 | - 1 - | - 157.113 |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.
Justification:
Where applicable, justification for individual modification is provided in the P-3A exhibits.

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

## Appropriation / Budget Activity / Budget Sub Activity:

 3020F / 03 / 1
## P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD

Date: May 2021

## Modification Number / Title:

5915 / ICBM Fuze Modernization

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

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 51.619 | 5.000 | 0.000 | 57.113 | 0.000 | 57.113 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | 4.100 | - | 4.100 |
| Net Procurement (P-1) (\$ in Millions) | 51.619 | 5.000 | 0.000 | 53.013 | 0.000 | 53.013 |
| Plus CY Advance Procurement (\$ in Millions) | 4.100 | 14.497 | 43.450 | 47.757 | - | 47.757 |
| Total Obligation Authority (\$ in Millions) | 55.719 | 19.497 | 43.450 | 100.770 | 0.000 | 100.770 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Program Overview







 Fuzes will be delivered and placed in supply for installation by organizational/intermediate maintenance on a schedule to be determined by USSTRATCOM and AFGSC.




 and execute the Fiscal Year 2022 procurement quantities. The Fiscal Year 2022 advance procurement request has been updated to support the re-baselined production schedule.
 6.6. The program is forecasted to complete a Milestone C decision in 4QFY2021 and a Full Rate Production Decision in 2QFY2024.

Life of Program Buy



 on any other schedule.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  | Date: May 2021 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 | P-1 Line Item Number / Title M30FLH / ICBM FUZE MOD | Modification Number / Title: 5915 / ICBM Fuze Modernization |
| ID Code (A=Service Ready, B=Not Service Ready) : B M |  | MDAP/MAIS Code: |
| Purchasing components in a single production run or lot to support joint production activities is required to manage capacity and resource conflicts in the production workload within NNSA. NNSA has a large number of current and pending modernization activities necessitating careful planning and coordination among related programs that rely on the same vendors, components, and plant production space. Funding and building these components as a Life of Program Buy (LOPB) is critical to maintaining production line availability and schedule for the Mk21 ICBM Fuze Modernization, W88 Alt 370, B61-12 LEP, W87-1 Modification, and W80-4 LEP programs. |  |  |
| Prior Years funding includes Life of Type Buy (LOTB) procurements to affordably acquire qualified COTS parts for use during and after exposure to nuclear environments and to ensure commonality between the Air Force and the Navy. LOTB was executed jointly with the Navy to provide a pool of interchangeable, qualified, and certified parts for each service's fuze. Procured parts will be delivered to the National Nuclear Security Administration, Kansas City National Security Campus for use in producing common component modules for the Air Force and Navy fuzes. Some component modules will be entirely interchangeable between the Services while others will have interchangeable sub-assemblies. |  |  |
| Milestone/Development Status |  |  |
| The program entered Phase 6.3 Developmental Engineering in FY2013 and completed in FY2019. The first flight test was performed in FY2019 and the second flight test was performed in FY2020. Phase 6.4 Production Engineering will be completed in FY2024. The program will enter Phase 6.5 First Production in FY2024. Research, Development, Test and Evaluation (RDT\&E) is contained in Program Element 0604933F. The program is tailored to use the joint Department of Defense - Department of Energy Phase 6.X processes for routine nuclear stockpile activities to align with Navy and NNSA operations. |  |  |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 |  | P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD |  |  | Modification Number / Title: 5915 / ICBM Fuze Modernization |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: LGM-30G | Modification Type: Service Life Extension |  |  | Related RDT\&E PEs: 0604933F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0604933F | 46/846.095 | - /155.476 | - /156.693 | 27/117.109 | 1. | 27/117.109 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: ICBM Fuze |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| ICBM Fuze:EQUIPMENT Group B (Active) | - 10.000 | - 15.000 | - 1- | 40/49.864 | - 1- | 40/49.864 |
| Subtotal: Recurring | - 10.000 | - 15.000 | - 1- | - /49.864 | - 1- | - /49.864 |
| Subtotal: ICBM Fuze | - 10.000 | - 15.000 | - 1- | - /49.864 | - 1- | - 149.864 |
| Subtotal: Procurement, All Modification Items | - 10.000 | - 15.000 | 1. | - /49.864 | - 1- | - /49.864 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 151.619 | - 1. | - 1- | - 1 - | - 1. | - 1 - |
| Change Orders | - 1- | - 1- | - 1- | - 12.191 | -1- | - 12.191 |
| SIM/TRAINER | - 1 - | - 1- | - 1- | - 12.970 | -1. | - 12.970 |
| OTHER GOVT | - 1- | - 1- | - 1- | - 12.088 | -1- | - 12.088 |
| Subtotal: Support | - /51.619 | - 1 - | - 1 - | - 17.249 | - 1- | - 17.249 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 51.619 | 5.000 | 0.000 | 57.113 | 0.000 | 57.113 |

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| Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ```Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV``` |  |  |  |  | P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD |  |  |  |  |  |  |  |
| Program Elements for Code B Items: 0604933F |  |  |  |  |  | Other Related Program Elements: 0604933F |  |  |  |  |  |  |
| Line Item MDAP/MAIS Code: 498 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Gross/Weapon System Cost (\$ in Millions) | 4.100 | 14.497 | 43.450 | 47.757 | - | 47.757 | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 4.100 | 14.497 | 43.450 | 47.757 | - | 47.757 | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 4.100 | 14.497 | 43.450 | 47.757 | - | 47.757 | - | - | - | - | $\cdot$ | - |

## Description:

The ICBM Fuze Modernization program continues to require advance procurement authority in FY2022 to procure long lead items (Model XI sensor hardware, Thermal Protection Device (TPD) connectors, cable assemblies, connector assemblies, and Commercial Off-the-Shelf (COTS) components for the Radar Module, Pathlength Module (PLM), Missile Interface \& Controller Module (MICM), Firing Set Interface Module (FSIM), and Launch Safety Device Assembly (LSDA)). Advance procurement needs increased due to a better understanding of the materials required in advance to align with actual quantities procured. Failure to procure the parts will result in delayed fuze production and fielding activities.

ICBM Fuze Modernization program advance procurement is utilized to reduce the required lead time for production assets from time of full funding by 36 months.
The end items for which the long lead items listed on the $\mathrm{P}-10$ will be used to produce are fully funded in the FY 2025 budget.
The ICBM Fuze Modernization Program was re-baselined in Fiscal Year 2020. As a part of the re-baseline an updated Service Cost Position (SCP) was completed in July 2020 which provided more specific insight to lead times and costs associated with the ICBM Fuze Modernization production cycle. The SCP utilized pre-production cost data received from the production agency, Kansas City National Security Campus, to inform a higher fidelity breakout between advance procurement and other weapon system procurement requirements. Previous budget submissions underestimated the advance procurement requirements for the first two production lots. To address the advance procurement limitations of previous budget submissions and to align with the new program schedule, the production quantity procurement profile was updated and procurement quantities were shifted into future years. The production agency has been able to mitigate impacts from limited advance procurement funding for the first two lots and the program is able to fully fund and execute the Fiscal Year 2022 procurement quantities. The Fiscal Year 2022 advance procurement request has been updated to support the re-baselined production schedule.


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| Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2022 Air Force |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 |  | P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD |  | P-3a Number / Title: <br> 5915 / ICBM Fuze Modernization |  |
| First System (2022) Award Date: First Syste <br> December 2024 <br> June 2027 | First System (2022) Completion Date: June 2027 |  | Interval Between Systems:0 Months |  |  |
| ICBM Fuze Modernization | Production Leadtime (Months) | Prior Years (Each) | $\begin{gathered} \hline \text { FY } 2020 \\ \text { (Each) } \\ \hline \end{gathered}$ | $\underset{\text { (Each) }}{ } \mathbf{F Y} 2021$ | $\underset{\text { (Each) }}{ } \mathbf{F Y} 2022$ |
| Quantity | 30 | - | - | - | - |
| Cost Elements | When Required (Months) |  |  |  |  |
|  |  | Prior Years <br> (\$ M) | $\begin{gathered} \text { FY } 2020 \\ (\$ M) \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ (\$ M) \end{gathered}$ |
| CFE |  |  |  |  |  |
| ICBM FUZE MOD Hardware: ICBM Fuze Mod Hardware | 24 | 4.100 | 14.497 | 43.450 | 0.000 |
| ICBM FUZE MOD Hardware: Radar COTS | 24 | - | - | - | 1.017 |
| ICBM FUZE MOD Hardware: MICM COTS | 24 | - | - | - | 0.517 |
| ICBM FUZE MOD Hardware: FSIM COTS | 24 | - | - | - | 1.105 |
| ICBM FUZE MOD Hardware: PLM COTS | 24 | - | - | - | 0.080 |
| ICBM FUZE MOD Hardware: Mod XI Sensor Assembly | 24 | - | - | - | 42.329 |
| ICBM FUZE MOD Hardware: TPD Connectors | 24 | - | - | - | 0.179 |
| ICBM FUZE MOD Hardware: LSDA Header Shell and Parts | 24 | - | - | - | 0.973 |
| ICBM FUZE MOD Hardware: Cable Assembly | 24 | - | - | - | 0.831 |
| ICBM FUZE MOD Hardware: Connector and Subassemblies | 24 | - | - | - | 0.295 |
| ICBM FUZE MOD Hardware: Other (Key Number and Misc Items) | 24 | - | - | - | 0.431 |
| Total: CFE |  | 4.100 | 14.497 | 43.450 | 47.757 |
| Total Advance Procurement/Obligation Authority |  | 4.100 | 14.497 | 43.450 | 47.757 |

## UNCLASSIFIED

| Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 | P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD |  |  |  | P-3a Number / Title: <br> 5915 / ICBM Fuze Modernization |  |  |
|  | FY 2022 |  |  |  |  |  |  |
| Cost Elements | QPA <br> (Each) | Production Leadtime (Months) | Unit Cost (\$ M) | Contract Forecast Date | $\underset{\text { (Each) }}{2022 \text { Qty }}$ | For FY | Total Cost Request (\$ M) |
| CFE |  |  |  |  |  |  |  |
| ICBM FUZE MOD Hardware: ICBM Fuze Mod Hardware | - |  |  |  |  |  | 0.000 |
| ICBM FUZE MOD Hardware: Radar COTS | 1 | 32 | 0.010 | Jan 2024 | 104 |  | 1.017 |
| ICBM FUZE MOD Hardware: MICM COTS | 1 | 33 | 0.005 | Dec 2023 | 104 |  | 0.517 |
| ICBM FUZE MOD Hardware: FSIM COTS | 1 | 31 | 0.011 | Feb 2024 | 104 |  | 1.105 |
| ICBM FUZE MOD Hardware: PLM COTS | 1 | 30 | 0.001 | Mar 2024 | 104 |  | 0.080 |
| ICBM FUZE MOD Hardware: Mod XI Sensor Assembly | 1 | 53 | 0.407 | Apr 2022 | 104 |  | 42.329 |
| ICBM FUZE MOD Hardware: TPD Connectors | 1 | 27 | 0.002 | Jun 2024 | 104 |  | 0.179 |
| ICBM FUZE MOD Hardware: LSDA Header Shell and Parts | 1 | 30 | 0.009 | Mar 2024 | 104 |  | 0.973 |
| ICBM FUZE MOD Hardware: Cable Assembly | 1 | 36 | 0.008 | Sep 2023 | 104 |  | 0.831 |
| ICBM FUZE MOD Hardware: Connector and Subassemblies | 1 | 25 | 0.003 | Aug 2024 | 104 |  | 0.295 |
| ICBM FUZE MOD Hardware: Other (Key Number and Misc Items) | 1 | 36 | 0.004 | Sep 2023 | 104 |  | 0.431 |
| Total: CFE |  |  |  |  |  |  | 47.757 |
| Total Advance Procurement/Obligation Authority |  |  |  |  |  |  | 47.757 |

## Description:

The ICBM Fuze Modernization program continues to require advance procurement authority in FY2022 to procure long lead items (Model XI sensor hardware, Thermal Protection Device (TPD) connectors, cable assemblies, connector assemblies, and Commercial Off-the-Shelf (COTS) components for the Radar Module, Pathlength Module (PLM), Missile Interface \& Controller Module (MICM), Firing Set Interface Module (FSIM), and Launch Safety Device Assembly (LSDA)). Advance procurement needs increased due to a better understanding of the materials required in advance to align with actual quantities procured. Failure to procure the parts will result in delayed fuze production and fielding activities.

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / <br> BSA 1: Class IV |  |  |  |  |  | P-1 Line Item Number / Title: M30MLG / MM III Modifications |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 271.275 | 49.705 | 81.137 | 88.579 | - | 88.579 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 271.275 | 49.705 | 81.137 | 88.579 | - | 88.579 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 271.275 | 49.705 | 81.137 | 88.579 | - | 88.579 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 0.338 | 6.865 | 4.947 | - | 4.947 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds modifications to the LGM-30, Minuteman III (MM III) Intercontinental Ballistic Missile (ICBM) weapon system. The MM III is a strategic missile capable of delivering special weapons against a wide range of targets. The purpose of the modifications budgeted in FY22 is to support the operational capability of the Minuteman III ICBM through fielding of GBSD. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues

The modifications being performed on LGM-30 include: Minuteman Minimum Essential Emergency Communications Network (MEECN) modification, LGM-30G Launch Control Center Block Upgrade (LCCBU), LGM-30G Arm/Disarm Switch Replacement (ADSR), LGM-30G Low Cost Modifications (LCM), LGM-30G Fast Rising B-Plug Service Life Extenstion (FRBP SLEP), LGM-30G ICBM Cryptography Upgrade II (ICU II), LGM-30G Automatic Switching Unit (ASU), and LGM-30G Remote Visual Assessment II (RVA II).

RDT\&E funding for modifications other than MEECN is contained in PE 0101213F (PE 0604851F prior to FY15); MEECN is contained in PE 0303131F.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles /
BSA 1: Class IV

## P-1 Line Item Number / Title:

M30MLG / MM III Modifications

ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0101213F

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | 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) |
| P-40a*** | 5910 / MINUTEMAN MEECN MODIFICATION (Capability Improvement) |  |  |  | - / 129.384 | - 1 - | - 1 - | - 12.674 | - 1 | - 12.674 |
| P-40a*** | 5921 / MM LCC Block Upgrades (Service Life Extension) |  |  |  | - 12.311 | - / 14.943 | - 126.627 | - 12.136 | - 1 - | - 12.136 |
| P-40a*** | 5928 / T-9 Launch Facility Trainer Conversion (T-9) (Other) |  |  |  | - $/ 33.286$ | - 12.230 | - 11.801 | - 1 - | - 1 - | 1 |
| P-40a*** | 5942 / LGM-30G Launch Control Center Break-In-Kit (LCCB) (Other) |  |  |  | - 10.226 | - 1 - | 1 | - 1 - | - 1 - | - 1 - |
| P-40a*** | 5947 / A/D Switch Replacement (Reliability \& Maintainability) |  |  |  | - 1 - | - 1 - | - 1 - | - 14.534 | - 1 - | - 14.534 |
| P-40a*** | 5948 / CMPT upgrade (Other) |  |  |  | - 1 - | - 10.258 | - 1 - | - 1 - | - 1 - | 1 |
| P-40a*** | 5949 / Fast Rising B-Plug Service Extension Program (FRBP SLEP) (Service Life Extension) |  |  |  | - 10.000 | - 1 - | - 1 - | - 1 - | - 1 | 1 - |
| P-40a*** | 99999x I Low Cost Modifications (Other) |  |  |  | - / 12.140 | - 10.542 | - 10.160 | - 14.899 | - 1 - | - 14.899 |
| P-3a | 5916 / ICBM Cryptography Upgrade Increment II (Capability Improvement) |  | A |  | - / 90.281 | - / 26.288 | - / 33.337 | - / 10.782 | - 10.000 | - / 10.782 |
| P-3a | 5925 / MM III Auto Switching Unit (ASU) (Service Life Extension) |  | A |  | - 10.247 | - 11.025 | - /1.791 | - 18.964 | - 10.000 | - 18.964 |
| P-3a | 5932 / LGM-30G Remote Visual Assessment Phase II (RVA II) (Other) |  | B |  | - 13.400 | - /4.419 | - / 17.421 | - 154.590 | - 10.000 | - 154.590 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1271.275 | 149.705 | - 181.137 | 188.579 | - 1 - | - 188.579 |

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

## Justification:

This program, P-3A Mod 5910, MINUTEMAN MEECN MODIFICATION, is a new start.
This program, P-3A Mod 5947, A/D Switch Replacement, is a new start.
Where applicable, justification for individual modifications is provided in the P-3A exhibits


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3020 \mathrm{~F} / 03 / 1$ |  | P-1 Line Item Number / Title: M30MLG / MM III Modifications |  |  | Modification Number / Title: 5916 / ICBM Cryptography Upgrade Increment II |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: LGM-30G | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0101213F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | Qty (Each) I <br> Total Cost (\$ M) | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I <br> Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: A4 Drawer Replacement |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| A4 Drawer Replacement:EQUIPMENT Group B (Active) | $167 / 76.845$ | $59 / 21.222$ | $231 / 15.410$ | - 1 - | - 1 - | - 1- |
| Subtotal: Recurring | - 176.845 | - 121.222 | - /15.410 | - 1- | - 1 - | - 1- |
| Subtotal: A4 Drawer Replacement | - 176.845 | - 121.222 | - /15.410 | . 1 | - 1- | - 1 |
| Subtotal: Procurement, All Modification Items | - 176.845 | - 121.222 | - /15.410 | 1 - | 1- | - 1 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 17.378 | - 10.590 | - $1-$ | - 1 - | - 1- | - 1- |
| OTHER GOVT | - 13.768 | - 12.767 | - 16.150 | - 13.650 | - 1- | - 13.650 |
| Change Orders | - 1- | - 10.086 | - 14.238 | - 13.643 | - 1- | 13.643 |
| SUPPORT-EQUIP | - 1- | - 1- | - 14.615 | - 1 - | - 1- | - 1 - |
| A\&AS | - 12.243 | - 10.033 | - 11.443 | - 11.519 | - 1 - | - 11.519 |
| PMA - Other Gov't Costs | - 10.047 | - 11.590 | - 11.481 | - 11.970 | - 1- | - 11.970 |
| Subtotal: Support | - /13.436 | - 15.066 | - /17.927 | - /10.782 | - 1 - | - /10.782 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 90.281 | 26.288 | 33.337 | 10.782 | 0.000 | 10.782 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3020F / 03 / 1 | P-1 Line Item Number / Title: M30MLG / MM III Modifications |  |  |  | Modification Number / Title: <br> 5925 / MM III Auto Switching Unit (ASU) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.247 | 1.025 | 1.791 | 8.964 | 0.000 | 8.964 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.247 | 1.025 | 1.791 | 8.964 | 0.000 | 8.964 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.247 | 1.025 | 1.791 | 8.964 | 0.000 | 8.964 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | 0.379 | - | 0.379 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

The ASU Program will replace the obsolete Automatic Switching Unit, Diesel Electric Unit, and Minuteman Power Processor with modern commercial off-the-shelf components to improve reliability and supportability. All Launch Facilities and Missile Alert Facilities at Minot, AFB and Malmstrom, AFB will be impacted by the ASU program. The ASU program will also modify Minuteman trainers and facilities at Vandenberg. The new equipment is expected to have a design life of 10 years and will replace equipment that has exceeded its original design life.

ASU has been de-scoped by Air Force Global Strike Command and will not be installing at FE Warren.
Milestone/Development Status
Key production activities include:
ASU Milestone C: May 19
Production and Deployment Phase: 4QFY2021-4QFY2025.
ASU RAA: Sep 2025

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 |  | P-1 Line Item Number / Title: M30MLG / MM III Modifications |  |  | Modification Number / Title: <br> 5925 / MM III Auto Switching Unit (ASU) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: LGM-30G | Modification Type: Service Life Extension |  |  | Related RDT\&E PEs: 0101213F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Auto Switching Unit |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Auto Switching Unit:EQUIPMENT Group B (Active) | - 1- | - 1- | 1 - | 4017.224 | - 1- | $40 / 7.224$ |
| Subtotal: Recurring | - 1- | - 1- | - 1- | - 17.224 | - 1- | - 17.224 |
| Subtotal: Auto Switching Unit | - 1 - | - 1 - | - 1 - | - 17.224 | - 1- | - 17.224 |
| Subtotal: Procurement, All Modification Items | 1 | - 1- | - / - | - 17.224 | -1- | - 17.224 |
| Support (All Modification Items) |  |  |  |  |  |  |
| PMA - Other Gov't Costs | - 1- | - 1- | - 10.764 | - 11.102 | 1. | - 11.102 |
| OTHER GOVT | -1- | - 10.500 | - 10.492 | - 1- | -1- | - 1- |
| A\&AS | - 10.247 | - 10.525 | - 10.535 | - 10.638 | - 1 - | - 10.638 |
| Subtotal: Support | - 10.247 | - $/ 1.025$ | - 11.791 | - 11.740 | - 1- | - 11.740 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - / - | - 1 - | - 1 - | - 1 - | -1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.247 | 1.025 | 1.791 | 8.964 | 0.000 | 8.964 |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 |  |  |  | P-1 Line Item Number / Title: M30MLG / MM III Modifications |  |  |  |  | Modification Number / Title: <br> 5925 / MM III Auto Switching Unit (ASU) |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Modification Item 1 of 1: Auto Switching Unit |  |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturer Name: Northrop Grumman |  |  |  |  |  | Manufacturer Location: Ogden, UT |  |  |  |  |  |  |
| Administrative Leadtime (in Months): 0 |  |  |  |  |  | Production Leadtime (in Months): 3 |  |  |  |  |  |  |
| Dates ${ }^{\text {a }}$ F 2020 |  |  |  |  |  | FY 2021 |  |  | FY 2022 |  |  |  |
| Contract Dates |  |  |  |  |  |  |  |  | Feb 2022 |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |  | May 2022 |  |  |  |
| Installation Information |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Method of Implementation: Contract Field Team |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Schedule |  |  |  |  |  |  |  |  |  |  |  |  |
|  | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  |
| PYS | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| In 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Out 0 | - | - | - | - | - | - | - | - | - | - | - | - |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 | P-1 Line Item Number / Title: M30MLG / MM III Modifications |  |  |  | Modification Number / Title: 5932 I LGM-30G Remote Visual Assessment Phase II (RVA II) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 3.400 | 4.419 | 17.421 | 54.590 | 0.000 | 54.590 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 3.400 | 4.419 | 17.421 | 54.590 | 0.000 | 54.590 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 3.400 | 4.419 | 17.421 | 54.590 | 0.000 | 54.590 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 0.000 | 0.756 | 0.774 | - | 0.774 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:


 changes required to meet DoD Cyber Security requirements.
 system to report LF assessment information to monitoring locations.

Milestone/Development Status

- RVA EMD: 2QFY2017-1QFY2020
-RVA II PDR: Oct 17
- RVA II CDR: Feb 19
- RVA II Milestone C: Dec 19
- Production and Deployment: 4QFY2020-4QFY2023
- RVA II IOC: Aug 21
- RVA II FOC: Jul 23

EMD contract awarded in FY17 and completed in 1QFY20.
First lot ( 1 squadron) will be installed at Malmstrom AFB. These units will be used for completing OT\&E and then declared operational and turned over to the wing for daily use. OT\&E testing associated with this effort and units themselves will be paid for with procurement funds.


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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles /
BSA 1: Class IV

P-1 Line Item Number / Title:
M65DAG / AGM-65D Maverick

| 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 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 71.081 | 0.294 | 0.298 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 71.081 | 0.294 | 0.298 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 71.081 | 0.294 | 0.298 | 0.000 | - | 0.000 | - | - | - | - | - | $\bullet$ |
| (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 may be used to address Diminishing Manufacturing Sources (DMS) issues.
Funding for this exhibit contained in PE 0207313F


## Justification:

No FY2022 funding requested.

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV |  |  |  |  |  | P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM) |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: 0101122F |  |  |  |  | Other Related Program Elements: 0101122F |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 144.147 | 68.513 | 52.924 | 46.799 | - | 46.799 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 144.147 | 68.513 | 52.924 | 46.799 | - | 46.799 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 144.147 | 68.513 | 52.924 | 46.799 | - | 46.799 | - | $\cdot$ | $\cdot$ | - | $\cdot$ | - |
| (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 AGM-86B, Air Launched Cruise Missile (ALCM), is a subsonic, air-to-surface strategic nuclear missile, operational since 1982. Armed with a W80 warhead, it is designed to evade air and ground-based defenses in order to strike targets at any location within any enemy's territory. ALCM was designed for both B-52H internal and external carriage. Funding for this exhibit is contained in PE 0101122 F .

Change Summary:
All modification programs have been adjusted to reflect the calendar year 2000 program estimates (POE). POEs are based on a combination of actuals, proposals, rough order of magnitude estimates from contractors, and subject matter expert inputs.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles /
BSA 1: Class IV

## P-1 Line Item Number / Title:

MALCBG / Air Launch Cruise Missile (ALCM)

| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: 0101122F |  |  |  |  | Other Related Program Elements: 0101122F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <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*** | _0468 / AGM-86B Low Cost Mods (Other) |  |  |  | / 1.798 | - 10.298 | - 10.100 | - 10.100 | - 1 - | - 10.100 |
| P-40a*** | 860011 / Support Equipment (Reliability \& Maintainability) |  |  |  | 10.190 | - / 19.691 | - 19.658 | - 14.986 | - 1 - | - 14.986 |
| P-40a*** | 860101 / AGM-86B Service Life Extension Program 1 (Service Life Extension) |  |  |  | - 19.613 | - 10.894 | - 13.588 | - 13.648 | - 1 - | - 13.648 |
| P-40a*** | 860103 / Warhead Arming Device (WAD) (Service Life Extension) |  |  |  | - 17.501 | - 10.006 | - 10.009 | - 10.010 | - 1 - | - 10.010 |
| P-40a*** | 860105 / Guided Missile Flight Controller (GMFC) (Reliability \& Maintainability) |  |  |  | - 11.386 | - 10.009 | - 13.660 | - 14.200 | - 1 - | - 14.200 |
| P-40a*** | 860106 / W-10 Cable (Service Life Extension) |  |  |  | - 10.646 | - 10.644 | - 10.749 | - 10.371 | - 1 - | - 10.371 |
| P-40a*** | 860107 / Fuze Assembly (Service Life Extension) |  |  |  | - 10.000 | - 13.178 | - 14.591 | - 14.711 | - 1 - | - 14.711 |
| P-40a*** | 860109 / Flight Data Transmitter (Service Life Extension) |  |  |  | - 1 - | - 1 - | - 1 - | - 13.400 | - 1 - | - 13.400 |
| P-3a | 860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit (Capability Improvement) |  | B |  | - / 109.537 | - / 10.433 | - / 13.654 | - / 10.898 | - 10.000 | - / 10.898 |
| P-3a | 860104 / Rotary Switch (RS) (Reliability \& Maintainability) |  | B |  | / 13.476 | - 18.262 | - 16.090 | - 16.260 | - 10.000 | - 16.260 |
| P-3a | 860108 / Inertial Navigation Element (INE) (Reliability \& Maintainability) |  | B |  | - 10.000 | - / 25.098 | - / 10.825 | - 18.215 | - 10.000 | - 18.215 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 144.147 | - /68.513 | - 152.924 | - / 46.799 | - 1 - | - / 46.799 |

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

## Justification:

This program, P-3A Mod 860109, Flight Data Transmitter, is a new start.
INE completed development and began re-manufacture production in FY-2020

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 | P-1 Line Item Number / Title: <br> MALCBG / Air Launch Cruise Missile (ALCM) |  |  |  | Modification Number / Title: 860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 109.537 | 10.433 | 13.654 | 10.898 | 0.000 | 10.898 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 109.537 | 10.433 | 13.654 | 10.898 | 0.000 | 10.898 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 109.537 | 10.433 | 13.654 | 10.898 | 0.000 | 10.898 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:




 requirements.
 have a two year lead time from receipt of order and are limited to a seven year shelf life. CATIK batteries are represented in the "SUPPORT-EQUIP" line.


 (the number of Encryption chips procured in a given year varies).

Three factors contributed to the cost increase in FY20. The restarting of the CATIK line, upgraded common core unit, and upgraded flight termination receiver.
 purchased in FY20 deliver in 2023.



CATIK funds will continue to support AFGSC and USSTRATCOM requirements to keep the ALCM viable through 2030.
Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.
Milestone/Development Status

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  | Date: May 2021 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 | P-1 Line Item Number / Title: <br> MALCBG / Air Launch Cruise Missile (ALCM) | Modification Number / Title: 860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |

CATIK Enterprise effort consists of CATIK units, Encryption units, Battery Sets, and Decryption units to support flight tests through FY28.

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

## Appropriation / Budget Activity / Budget Sub Activity:

 3020F/03/1
## P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)

## Date: May 2021

## Modification Number / Title:

860104 / Rotary Switch (RS)

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

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 13.476 | 8.262 | 6.090 | 6.260 | 0.000 | 6.260 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 13.476 | 8.262 | 6.090 | 6.260 | 0.000 | 6.260 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 13.476 | 8.262 | 6.090 | 6.260 | 0.000 | 6.260 |
| (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:


 860002 for information prior to FY19.




 Installations are expected to occur FY21-FY27.
 the budget year leaving 166 units to be procured in subsequent years

Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.
This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D
SLEP funds will continue to support AFGSC and USSTRATCOM requirements to keep the ALCM viable through 2030.
Milestone/Development Status
 engineering studies conducted by the Original Equipment Manufacturer.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 |  | P-1 Line Item Number / Title: <br> MALCBG / Air Launch Cruise Missile (ALCM) |  |  | Modification Number / Title: 860104 / Rotary Switch (RS) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: AGM-86B | Modification Type: Reliability \& Maintainability |  |  | Related RDT\&E PEs: 0101122F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: Rotary Switch-Depot |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Rotary Switch-Depot:EQUIPMENT Group B (Active) | 48/3.142 | $24 / 1.940$ | 24/1.456 | $24 / 1.499$ | 1 - | 2411.499 |
| Subtotal: Recurring | - 13.142 | - 11.940 | - /1.456 | - 11.499 | - 1 - | - 11.499 |
| Subtotal: Rotary Switch-Depot | - 13.142 | - 11.940 | - /1.456 | - 11.499 | 1 | - 11.499 |
| Modification Item 2 of 2: Rotary Switch-Org/ Intermediate |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Rotary Switch-Org/Intermediate:EQUIPMENT Group B (Active) | 140/9.164 | $70 / 5.229$ | 70/4.234 | 70/4.341 | - 1- | 70/4.341 |
| Subtotal: Recurring | - 19.164 | - 15.229 | - 14.234 | - 14.341 | - 1 - | - 14.341 |
| Subtotal: Rotary Switch-Org/Intermediate | - 19.164 | - 15.229 | - 14.234 | - 14.341 | - 1 - | - 14.341 |
| Subtotal: Procurement, All Modification Items | - /12.306 | - 17.169 | - 15.690 | - 15.840 | - / - | - 15.840 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 10.000 | - 1 - | - $1-$ | - $1-$ | - 1 - | - $1-$ |
| PMA - Other Gov't Costs | - 10.063 | - 10.004 | - 10.030 | - 10.030 | 1 - | - 10.030 |
| A\&AS | - 11.107 | - 11.089 | - 10.360 | - 10.380 | - 1 - | - 10.380 |
| Subtotal: Support | - 11.170 | - 11.093 | - 10.390 | - 10.410 | - 1 - | - 10.410 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 2: Rotary Switch-Depot | - 1 - | - 1 - | 18/0.010 | 2410.010 | 1 - | $24 / 0.010$ |
| Subtotal: Installation | - $1-$ | - $1-$ | 18/0.010 | $24 / 0.010$ | - / - | 24/0.010 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 13.476 | 8.262 | 6.090 | 6.260 | 0.000 | 6.260 |

## UNCLASSIFIED



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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 | P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM) |  |  |  | Modification Number / Title: 860108 / Inertial Navigation Element (INE) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 25.098 | 10.825 | 8.215 | 0.000 | 8.215 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 25.098 | 10.825 | 8.215 | 0.000 | 8.215 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 25.098 | 10.825 | 8.215 | 0.000 | 8.215 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:





 Technical Order (TCTO) in conjunction with scheduled maintenance activities.
 remanufacture contract has been awarded to shorten the asset availability date and ensure procurement of complete usable end items.

Funds may be used to address emerging and short notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.
SLEP funds will continue to support AFGSC and USSTRATCOM requirements to keep the ALCM viable through the 2030's.
 any DMSMS or obsolescence issues.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
Milestone/Development Status
FY20 begins production of INEs.

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: <br> 860108 / Inertial Navigation Element (INE) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 |  | P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM) |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: AGM-86B | Modification Type: Reliability \& Maintainability |  |  | Related RDT\&E PEs: 0101122F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Qty (Each) I <br> Total Cost (\$M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0101122F | - 14.875 | - 12.000 | 1 - | - 1- | 1 - | 1 - |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: INE - Depot |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| INE - Depot:EQUIPMENT Group B (Active) | - 1- | $24 / 14.261$ | $24 / 3.304$ | 24/2.339 | - 1- | 24/2.339 |
| Subtotal: Recurring | - 1- | - /14.261 | - 13.304 | - /2.339 | - / - | - $/ 2.339$ |
| Subtotal: INE - Depot | 1. | - /14.261 | - 13.304 | - /2.339 | 1 | - /2.339 |
| Modification Item 2 of 2: INE - org / intermediate |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| INE - org / intermediate:EQUIPMENT Group B (Active) | - 1- | 16/9.508 | 16/2.202 | 16/1.559 | - 1- | 16/1.559 |
| Subtotal: Recurring | - 1 - | - 19.508 | /2.202 | - 11.559 | 1 | - 11.559 |
| Subtotal: INE - org / intermediate | - 1 - | - 19.508 | - 12.202 | - /1.559 | 1 | - /1.559 |
| Subtotal: Procurement, All Modification Items | - | - 123.769 | - 15.506 | - 13.898 | - 1 - | - 13.898 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 1- | - 11.302 | - 10.934 | - 10.958 | - 1- | - 10.958 |
| PMA - Other Gov't Costs | - 1. | - 10.027 | - 14.385 | - 13.357 | 1 - | - 13.357 |
| Subtotal: Support | 1 | - 11.329 | - 15.319 | - 14.315 | 1 | - 14.315 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 2: INE - Depot | - 1- | - 1- | - 1 - | $12 / 0.002$ | - 1 - | $12 / 0.002$ |
| Subtotal: Installation | - 1 - | - / - | - / - | 12/0.002 | - 1 | 12/0.002 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 25.098 | 10.825 | 8.215 | 0.000 | 8.215 |

## UNCLASSIFIED



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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1 | P-1 Line Item Number / Title: <br> MALCBG / Air Launch Cruise Missile (ALCM) |  | Modification Number / Title: 860108 / Inertial Navigation Element (INE) |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  | MDAP/MAIS Code: |  |
| Modification Item 2 of 2: INE - org / intermediate |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: Northrop Grumman |  | Manufacturer Location: Salt Lake City, UT |  |
| Administrative Leadtime (in Months): 0 |  | Production Leadtime (in Months): 20 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates | Sep 2020 | Oct 2020 | Oct 2021 |
| Delivery Dates | May 2022 | Jun 2022 | Jun 2023 |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  |  | ntity: 214 |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10:
Missile Spares and Repair Parts

## P-1 Line Item Number / Title:

00098A / Msl Sprs/Repair Parts (Initial) Missile Spares and Repair Parts

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 1.910 | 13.575 | 14.212 | - | 14.212 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 1.910 | 13.575 | 14.212 | - | 14.212 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 1.910 | 13.575 | 14.212 | - | 14.212 | - | - | - | - | - | - |
| (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:

FY22 funding totals include $\$ 4.045 \mathrm{M}$ requested for Direct War and/or Enduring Requirements.
The FY22 funding request was reduced by $\$ 0.535 \mathrm{M}$ to account for the availability of prior year execution balances.

 and consumable components, assemblies, and subassemblies that must be available for issue at all levels of supply in time to support and maintain newly fielded end items.

Initial spares are funded in the two program segments described below.
Working Capital Fund (WCF) Spares. Since FY94 most spares are purchased using obligation authority in the WCF. When the spares are delivered, this central procurement account reimburses the WCF. Types of spares in this program segment are Readiness Spares Packages, New Acquisition Spares, Modification Spares, Support Equipment, Other Production, and Consumables.

Exempt Spares. This program segment finances spares that are not purchased through the WCF. The
budget authority is a direct cite on the contract. Types of spares in this program segment are
Contractor Logistics Support, Simulators/Trainers, Classified Equipment, and Munitions.
The following Major Defense Acquisition Programs (MDAP) have funding in this line:
AMRAAM, 185
AIM-9X BIk II, 442
JASSM, 555
This program has associated Research Development Test and Evaluation funding in PEs 11120F, 11213F, 27161F, 11122F, and 27163F.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10:
Missile Spares and Repair Parts

## P-1 Line Item Number / Title:

00098A / Msl Sprs/Repair Parts (Initial)
Missile Spares and Repair Parts

| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-18 | Missile Spares/Repair Parts (Initial) |  |  | 185 | 1 | - / 1.910 | - /13.575 | - / 14.212 | - 10.000 | - / 14.212 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 10.000 | - 11.910 | - /13.575 | - / 14.212 | - 1 - | - 114.212 |

Title represents the P-18 Title for Spares.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:


 Switch, Warhead Arming Device, Guided Missile Flight Control, W-10 cable, Fuze Assembly, Linear Actuator, Inertial Navigation Element and the Flight Data Transmitter


 operational test launches. FY22 initial spares will procure initial spares for the ICU II, FT3 and RVA II programs.

 down plans for JASSM.
 have parts available.

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| Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3020F / 04 / 10 | P-1 Line Item Number / Title: 00098A / Msl Sprs/Repair Parts (Initial) |  |  |  | Title: <br> Missile Spares/Repair Parts (Initial) |  |
| End Item Line Item Number / Name [MDAP/MAIS] | $\begin{gathered} \hline \text { Prior Years } \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { FY } 2020 \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ (\$ M) \\ \hline \end{gathered}$ | $\underset{(S M)}{ } \text { FY } 2022 \text { Base }$ | $\underset{(\$ M)}{ } \mathrm{FY} 2022 \text { OCO }$ | $\underset{\substack{\text { FY } 2022 \text { Total } \\(S M)}}{ }$ |
| Initial |  |  |  |  |  |  |
| BA 04 - Spares and Repair Parts |  |  |  |  |  |  |
| M09BA1 / AIM-9 Sidewinder | - | 0.256 | 0.000 | 0.000 | 0.000 | 0.000 |
| MALCBG / Air Launch Cruise Missile (ALCM) | - | 0.119 | 0.328 | 0.428 | 0.000 | 0.428 |
| MAMRA0 / AMRAAM [185] | - | 0.529 | 2.091 | 3.003 | 0.000 | 3.003 |
| JASSM0 / JOINT AIR-SURFACE STANDOFF MISSILE | - | 0.434 | 0.440 | 0.442 | 0.000 | 0.442 |
| M30MLG / MM III MODIFICATIONS | - | 0.338 | 8.855 | 6.597 | 0.000 | 6.597 |
| M09HAI / Sidewinder (AIM-9X) | - | 0.234 | 1.861 | 3.742 | 0.000 | 3.742 |
| Subtotal: Initial | - | 1.910 | 13.575 | 14.212 | 0.000 | 14.212 |
| Total Cost (Initial + Replenishment) | - | 1.910 | 13.575 | 14.212 | 0.000 | 14.212 |

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10: <br> Missile Spares and Repair Parts |  |  |  |  |  | P-1 Line Item Number / Title: 00098K / Msl Sprs/Repair Parts (Replen) |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 <br> Base | $\begin{gathered} \hline \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |  | - |  | - | - |  |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 70.231 | 84.671 | 63.547 | - | 63.547 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 70.231 | 84.671 | 63.547 | - | 63.547 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 70.231 | 84.671 | 63.547 | - | 63.547 | - | - | - | - | - | - |
| (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: <br> Program Description: MISSILE REPLENISHMENT SPARES (Budget Program 25). The Missile Replenishment <br> Spares program funds all ballistic and non-ballistic missile replenishment spares. The <br>  electronic components. Procurements will include spares with long production lead items. <br> The FY22 funding request was reduced by $\$ 6.499$ million to account for the availability of prior year execution balances. <br> The following Major Defense Acquisition Programs (MDAP) have funding in this line: <br> AMRAAM, 185 <br> SDB II, 439 <br> AIM-9X BIk II, 442 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |


| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10: Missile Spares and Repair Parts |  |  |  |  |  | P-1 Line Item Number / Title: 00098K / Msl Sprs/Repair Parts (Replen) |  |  |  |  |
| 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 MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Co } \end{array}$ | $\begin{aligned} & \hline \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-18 | MsI Sprs/Repair Parts (Replen) |  |  |  | -1- | - 170.231 | - 184.671 | - 163.547 | - 10.000 | - 163.547 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 10.000 | - 170.231 | - 184.671 | - 163.547 | - 1. | - 163.547 |

Title represents the P-18 Title for Spares.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

 procurement of obsolete components in launcher assemblies, missile guidance sections and test support equipment essential to maintain the Maverick Weapon System.
 for the Weapon System Evaluation Program (WSEP).
 replenishment spares to ensure the weapon can continue to operate.


 operational test launches.
 (CAS), Telemetry Packs, and Inert Measurement Units.

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| Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3020F / 04 / 10 | P-1 Line Item Number / Title: 00098K / Msl Sprs/Repair Parts (Replen) |  |  | Title: <br> MsI Sprs/Repair Parts (Replen) |  |  |
| End Item Line Item Number / Name [MDAP/MAIS] | Prior Years (\$M) | $\begin{gathered} \text { FY } 2020 \\ (\$ M) \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \text { Base } \\ (\$ M) \end{gathered}$ | $\underset{(S M)}{ } \mathrm{FY} 2022 \text { OCO }$ | $\underset{(\$ M)}{\text { FY }} 2022 \text { Total }$ |
| Replenishment |  |  |  |  |  |  |
| BA 04 - Spares and Repair Parts |  |  |  |  |  |  |
| M65DAG / AGM-65D Maverick | - | 1.575 | 1.597 | 0.000 | 0.000 | 0.000 |
| MALCBG / AGM-86 Air Launched Cruise Missile (ALCM) | - | 2.321 | 2.356 | 2.369 | 0.000 | 2.369 |
| M88AAG / AGM-88A Tactical AGM Missile (HARM) | - | 6.347 | 8.206 | 8.164 | 0.000 | 8.164 |
| M09BA1 / AIM-9 Sidewinder | - | 5.818 | 5.906 | 5.854 | 0.000 | 5.854 |
| M09HAI / AIM-9X | - | 3.725 | 5.722 | 5.756 | 0.000 | 5.756 |
| M30MLG / LGM-30 MINUTEMAN (MM III) | - | 44.785 | 51.421 | 31.889 | 0.000 | 31.889 |
| MAMRAO / MAMRAO - AIM-120 Advanced Medium Range Air to Air Missile (AMRAAM) | - | 0.854 | 0.868 | 0.873 | 0.000 | 0.873 |
| PRDTA2 / Predator Hellfire Missile | - | 0.305 | 0.310 | 0.313 | 0.000 | 0.313 |
| SDB000 / Small Diameter Bomb | - | 4.501 | 8.285 | 8.329 | 0.000 | 8.329 |
| Subtotal: Replenishment | - | 70.231 | 84.671 | 63.547 | 0.000 | 63.547 |
| Total Cost (Initial + Replenishment) | - | 70.231 | 84.671 | 63.547 | 0.000 | 63.547 |

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs |  |  |  |  | P-1 Line Item Number / Title: CAADJS / Cancelled Accounts |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.918 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.918 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.918 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Description: <br> No text provided. |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 4: Special Programs |  |  |  |  | P-1 Line Item Number / Title: MSPPRG / Special Update Programs |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Milions) | - | 136.812 | 23.501 | 30.352 | - | 30.352 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 136.812 | 23.501 | 30.352 | - | 30.352 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 136.812 | 23.501 | 30.352 | - | 30.352 | - | - | - | - | - | - |
| (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 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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[^0]:    Remarks:
    Remarks:
    Yearly Minimum Sustainment Rate $(M S R)=1,200$ missiles.
    Yearly Economical Production Rate (1-8-5) $=6,000$ missiles
    Yearly Maximum Production Rate (MPR) $=11,000$ missiles.

