UNCLASSIFIED
Department of Defense
Fiscal Year (FY) 2023 Budget Estimates
April 2022


Navy
Justification Book Volume 1 of 1
Weapons Procurement, Navy

The estimated cost of this report for the Department of the Navy (DON) is $\$ 123,746$.

The estimated total cost for supporting the DON budget justification material is approximately $\$ 4,190,764$ during the 2022 fiscal year. This includes $\$ 88,845$ in supplies and $\$ 4,101,919$ in labor.

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Navy•Budget Estimates FY 2023 • Procurement

## Table of Volumes

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## UNCLASSIFIED

Navy•Budget Estimates FY 2023 • Procurement

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## Weapons Procurement, Navy

For construction, procurement, production, modification, and modernization of missiles, torpedoes, other weapons, and related support equipment including spare parts, and accessories therefore; expansion of public and private plants, including the land necessary therefore, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, \$4,738,705,000 to remain available for obligation until September 30, 2025.

Fiscal Year (FY) 2023 Overseas Operations Costs funding accounted for in the Base Budget include:

- Combat or direct combat support expenses that discontinue once combat operations end at major contingency locations [\$6,594].
- In-theater and in-CONUS expenses that remain after combat operations cease and have previously been funded in Overseas Contingency Operations (OCO) [\$6,500].


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FY 2023 President's Budget
Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)

| Appropriation | $\begin{gathered} \text { FY } 2021 \\ (\text { Base }+ \text { OCO) } \end{gathered}$ | ```FY 2022 Less Supplementals Enactment``` | FY 2022 Division B Division C P.L.117-43 Enactment* | $\begin{gathered} \text { FY } 2022 \\ \text { Division B } \\ \text { P.L.117-70 } \\ \text { Enactment** } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Weapons Procurement, Navy | 4,465,822 | 3,982,657 |  |  |
| Total Department of the Navy | 4,465,822 | 3,982,657 |  |  |

Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)

## Appropriation

$$
\begin{gathered}
\text { FY } 2022 \\
\text { Division A } \\
\text { P.L. } 117-86 \\
\text { Enactment*** }
\end{gathered}
$$

$$
\begin{gathered}
\text { Division N } \\
\text { P.L. 117-103 } \\
\text { Enactment**** }
\end{gathered}
$$

$$
\begin{gathered}
\text { FY } 2022 \\
\text { Total } \\
\text { Supplemental } \\
\text { Enactment }
\end{gathered}
$$

FY 2022
Total
Enactment

Weapons Procurement, Navy
3,982,657
Total Department of the Navy
3,982,657

P-123PBP: FY 2023 President's Budget (Total Base Published Version)
***Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).
****Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

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Department of the Navy
FY 2023 President's Budget
Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)

## Appropriation

FY 2023
Request

Weapons Procurement, Navy
4,738,705
Total Department of the Navy
$4,738,705$

Appropriation: Weapons Procurement, Navy

Budget Activity
-_--_---_-_-----

1. Ballistic Missiles
2. Other Missiles
3. Torpedoes and Related Equipment
4. Other Weapons

06 . Spares and Repair Parts
Total Weapons Procurement, Navy
\(\left.$$
\begin{array}{cc} & \begin{array}{c}\text { FY } 2022 \\
\text { Less }\end{array} \\
\text { FY 2021 } \\
\text { (Base + OCO) }\end{array}
$$ \quad \begin{array}{c}Supplementals <br>

Enactment\end{array}\right]\)| $1,162,875$ | $1,127,560$ |
| :---: | :---: |
| $2,381,994$ | $2,145,046$ |
| 564,138 | 378,721 |
| 214,762 | 155,411 |
| 142,053 | $3,982,657$ |

FY 2022
Division B
Division C
P.L.117-43
P.L.117-43

Appropriation: Weapons Procurement, Navy

Budget Activity
-------

1. Ballistic Missiles

| FY 2022 | FY 2022 |
| :---: | :---: |
| Division A | Division N |
| P.L. 117-86 | P.L. 117-103 |
| Enactment*** | Enactment**** |

$$
\begin{gathered}
\text { FY } 2022 \\
\text { Total } \\
\text { Supplementa } \\
\text { Enactment }
\end{gathered}
$$

$$
\begin{gathered}
\text { FY } 2022 \\
\text { Total } \\
\text { Enactment } \\
1,127,560 \\
2,145,046 \\
378,721 \\
175,411 \\
155,919
\end{gathered}
$$

2. Other Missiles
3. Torpedoes and Related Equipment
4. Other Weapons

06 . Spares and Repair Parts

## Total Weapons Procurement, Navy

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Department of the Navy
FY 2023 President's Budget
Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)
Appropriation: Weapons Procurement, Navy

Budget Activity
----------------

1. Ballistic Missiles

FY 2023 Request
-----------
$1,132,931$
02. Other Missiles

2,889,745
03. Torpedoes and Related Equipment

400,200
04. Other Weapons

145,788
06 . Spares and Repair Parts
170,041
Total Weapons Procurement, Navy
4,738,705

## UNCLASSIFIED

Department of the Navy FY 2023 President's Budget
Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)
Appropriation: 1507N Weapons Procurement, Navy


Budget Activity 01: Ballistic Missiles


Modification of Missiles
1 Trident II Mods
$1,155,600$
$1,120,241$
Support Equipment \& Facilities

## 2 Missile Industrial Facilities

Total Ballistic Missiles
Budget Activity 02: Other Missiles

Strategic Missiles
3 Tomahawk
A

| 7,275 | 7,319 |
| :--- | ---: |
| -----------1 |  |
| $1,162,875$ | $1,127,560$ |

$\qquad$

Tactical Missiles
4 AMRAAM

$\qquad$
$\qquad$
$\qquad$

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Department of the Navy
FY 2023 President's Budget
Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)
Appropriation: 1507N Weapons Procurement, Navy

|  |  |  | FY Divis P.L. | A -86 | FY 20 Divis P.L. | N -103 | FY Tot Supple | ntal | FY 2022 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line |  | Ident | Enactm | *** | Enactme | **** | Enact |  | Enac |  |
| No | Item Nomenclature | Code | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost |

Budget Activity 01: Ballistic Missiles


Modification of Missiles
1 Trident II Mod
Support Equipment \& Facilities
2 Missile Industrial Facilities
Total Ballistic Missiles
Budget Activity 02: Other Missiles

Strategic Missiles
3 Tomahawk

A
139,983 U
Tactical Missiles


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***Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).
****Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).


Appropriation: 1507N Weapons Procurement, Navy


P-123PBP: FY 2023 President's Budget (Total Base Published Version)
*Includes enacted funding pursuant to the Extending Government Funding and Delivering Emergency Assistance Act (Public Law 117-43).
**Includes enacted funding pursuant to the Further Extending Government Funding Act (Public Law 117-70).

| Line | Ident | FY 2022 <br> Division A P.L. 117-86 Enactment*** |  | ```FY 2022 Division N P.L. 117-103 Enactment****``` |  | FY 2022 Total Supplemental Enactment |  | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \\ \text { Enactment } \end{gathered}$ |  | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No Item Nomenclature | Code | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | c |
| 8 JASSM | A |  |  |  |  |  |  |  |  | U |
| 9 Small Diameter Bomb II |  |  |  |  |  |  |  | 164 | 33,764 | U |
| 10 Ram | A |  |  |  |  |  |  | 70 | 73,015 | U |
| 11 Joint Air Ground Missile (JAGM) | A |  |  |  |  |  |  | 153 | 46,702 | U |
| 12 Hellfire | A |  |  |  |  |  |  | 120 | 7,557 | U |
| 13 Aerial Targets | A |  |  |  |  |  |  |  | 141,446 | U |
| 14 Drones And Decoys | A |  |  |  |  |  |  | 18 | 30,321 | U |
| 15 Other Missile Support | A |  |  |  |  |  |  |  | 3,474 | U |
| 16 LRASM | A |  |  |  |  |  |  | 48 | 161,212 | U |
| 17 Naval Strike Missile (NSM) | A |  |  |  |  |  |  | 32 | 52,377 | U |
| Modification of Missiles |  |  |  |  |  |  |  |  |  |  |
| 18 Tomahawk Mods | A |  |  |  |  |  |  |  | 172,074 | U |
| 19 ESSM | A |  |  |  |  |  |  | 108 | 248,619 | U |
| 20 AARGM | A |  |  |  |  |  |  | 54 | 109,835 | U |
| 21 Standard Missiles Mods | A |  |  |  |  |  |  |  | 130,482 | U |
| Support Equipment \& Facilities |  |  |  |  |  |  |  |  |  |  |
| 22 Weapons Industrial Facilities | A |  |  |  |  |  |  |  | 11,819 | U |
| 23 Fleet Satelite Comm Follow-On | A |  |  |  |  |  |  |  |  | U |
| 24 DON PGM Transition Support | A |  |  |  |  |  |  |  |  | U |

P-123PBP: FY 2023 President's Budget (Total Base Published Version)
***Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).
****Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

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| Line | Ident | FY 2023 <br> Request |  |  |
| :---: | :---: | :---: | :---: | :---: |
| No Item Nomenclature | Code | Quantity | Cost | C |
| 8 JASSM | A | 31 | 58,481 | U |
| 9 Small Diameter Bomb II |  | 481 | 108,317 | U |
| 10 Ram | A | 100 | 92,131 | U |
| 11 Joint Air Ground Missile (JAGM) | A | 293 | 78,395 | U |
| 12 Hellfire | A | 110 | 6,603 | U |
| 13 Aerial Targets | A |  | 183,222 | U |
| 14 Drones And Decoys | A | 61 | 62,930 | U |
| 15 Other Missile Support | A |  | 3,524 | U |
| 16 LRASM | A | 60 | 226,022 | U |
| 17 Naval Strike Missile (NSM) | A | 39 | 59,034 | U |
| Modification of Missiles |  |  |  |  |
| 18 Tomahawk Mods | A |  | 435,308 | U |
| 19 ESSM | A | 136 | 282,035 | U |
| 20 AARGM | A | 69 | 131,275 | U |
| 21 Standard Missiles Mods | A |  | 71,198 | U |
| Support Equipment \& Facilities |  |  |  |  |
| 22 Weapons Industrial Facilities | A |  | 1,976 | U |
| 23 Fleet Satellite Comm Follow-On | A |  |  | U |
| 24 DON PGM Transition Support | A |  |  | U |

P-123PBP: FY 2023 President's Budget (Total Base Published Version)

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Department of the Navy FY 2023 President's Budget
Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1507N Weapons Procurement, Navy


Ordnance Support Equipment
25 Ordnance Support Equipment
Total Other Missiles

A

$$
\begin{array}{cc}
199,459 & 143,089 \\
------------145,046
\end{array}
$$

$\qquad$
$\qquad$

Budget Activity 03: Torpedoes and Related Equipment

Torpedoes and Related Equip
26 SSTD

A
$5,811-4,545$
4,545
A
$105-276,844-58$
130,972
8 ASW Target
A
13,833
13,630
Mod of Torpedoes and Related Equip
29 MK-54 Torpedo Mods
103,441
94,168
30 MK-48 Torpedo ADCAP Mods A
31 Maritime Mines B
55,699 27,987
5,832
8,567

$$
94,103 \quad 90,832
$$

Destination Transportation
34 First Destination Transportation
Total Torpedoes and Related Equipment

4,416
------

$$
564,138
$$

$$
\begin{gathered}
4,023 \\
-------1 \\
378,721
\end{gathered}
$$

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P-123PBP: FY 2023 President's Budget (Total Base Published Version)
*Includes enacted funding pursuant to the Extending Government Funding and Delivering Emergency Assistance Act (Public Law 117-43).
**Includes enacted funding pursuant to the Further Extending Government Funding Act (Public Law 117-70).

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Department of the Navy FY 2023 President's Budget
Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)
Appropriation: 1507N Weapons Procurement, Navy

## Line No Item Nomenclature

|  | FY 2022 |
| :--- | :---: |
|  | Division A |
|  | P.L. 117-86 |
| Ident | Enactment** |
| Code | Quantity $\quad$ Cost |
| -_--- | ------ |

FY 2022
Division N
P.L. 117-103
Enactment****
Quantity Cost
-------

| FY 2022 |  |  |
| :---: | :---: | :---: |
| Total | FY 2022 |  |
| Supplemental | Total | S |
| Enactment | Enactment | e |
| Quantity Cost | Quantity | Cost |
| C | C |  |

$$
143,089 \mathrm{U}
$$

Total Other Missiles
$\qquad$

$$
2,145,046
$$

Budget Activity 03: Torpedoes and Related Equipment

Torpedoes and Related Equip
26 SSTD

A
$4,545 \mathrm{U}$
27 MK-48 Torpedo
A
28 ASW Targets
A
58
$130,972 \mathrm{U}$
$13,630 \mathrm{U}$
Mod of Torpedoes and Related Equip
29 MK-54 Torpedo Mods A
30 MK-48 Torpedo ADCAP Mods A
31 Maritime Mines B
94,168 U
$27,987 \mathrm{U}$
$8,567 \mathrm{U}$
upport Equipment
32 Torpedo Support Equipment A
A
Destination Transportation
34 First Destination Transportation
A
$\qquad$ ---------- $\qquad$
4,023 U 378, 721

P-123PBP: FY 2023 President's Budget (Total Base Published Version)
***Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).
****Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).


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Department of the Navy FY 2023 President's Budget
Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1507N Weapons Procurement, Navy


Budget Activity 04: Other Weapons
uns and Gun Mount

35 Small Arms and Weapons
Modification of Guns and Gun Mounts
36 CIWS Mods A
37 Coast Guard Weapons A
38 Gun Mount Mods A
39 LCS Module Weapons

40 Airborne Mine Neutralization Systems
Other
41 Cancelled Account Adjustments
Total Other Weapons
Budget Activity 06: Spares and Repair Parts

Spares and Repair Parts
42 Spares and Repair Parts
Total Spares and Repair Parts
Total Weapons Procurement, Navy

A
12,530

41,147

43,150

102,068




4,952
214,762


175,411
$\qquad$
$\qquad$
$\qquad$


J
, 662

$$
\begin{gathered}
155,919 \\
-
\end{gathered}
$$

$$
\begin{aligned}
& --------155,919
\end{aligned}
$$

$$
3,982,657
$$

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Department of the Navy
FY 2023 President's Budget
Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)
Appropriation: 1507N Weapons Procurement, Navy

| Line | Ident | $\begin{gathered} \text { FY } 2022 \\ \text { Division A } \\ \text { P.L. 117-86 } \\ \text { Enactment*** } \end{gathered}$ |  | ```FY 2022 Division N P.L. 117-103 Enactment****``` |  | FY 2022 Total Supplemental Enactment |  | FY 2022 <br> Total <br> Enactment |  | S e |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No Item Nomenclature | code | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | C |
| Budget Activity 04: Other Weapons |  |  |  |  |  |  |  |  |  |  |
| Guns and Gun Mounts |  |  |  |  |  |  |  |  |  |  |
| 35 Small Arms and Weapons | A |  |  |  |  |  |  |  | 12,461 | U |
| Modification of Guns and Gun Mounts |  |  |  |  |  |  |  |  |  |  |
| 36 CIWS Mods | A |  |  |  |  |  |  |  | 6,274 | U |
| 37 Coast Guard Weapons | A |  |  |  |  |  |  |  | 45,958 | U |
| 38 Gun Mount Mods | A |  |  |  |  |  |  |  | 93,775 | U |
| 39 LCS Module Weapons | B |  |  |  |  |  |  | 14 | 2,121 | U |
| 40 Airborne Mine Neutralization Systems | A |  |  |  |  |  |  |  | 14,822 | U |
| Other |  |  |  |  |  |  |  |  |  |  |
| 41 Cancelled Account Adjustments | A |  |  |  |  |  |  |  |  | U |
| Total Other Weapons |  |  |  |  |  |  |  |  | 175,411 |  |
| Budget Activity 06: Spares and Repair Parts |  |  |  |  |  |  |  |  |  |  |
| Spares and Repair Parts |  |  |  |  |  |  |  |  |  |  |
| 42 Spares and Repair Parts | A |  |  |  |  |  |  |  | 155,919 | U |
| Total Spares and Repair Parts |  |  |  |  |  |  |  |  | 155,919 |  |
| Total Weapons Procurement, Navy |  |  |  |  |  |  |  |  | 982,657 |  |

P-123PBP: FY 2023 President's Budget (Total Base Published Version)
***Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).
****Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

| Line | Ident | FY 2023 Request |  |
| :---: | :---: | :---: | :---: |
| No Item Nomenclature | Code | Quantity | Cost |
| Budget Activity 04: Other Weapons |  |  |  |
| Guns and Gun Mounts |  |  |  |
| 35 Small Arms and Weapons | A |  | 13,859 |
| Modification of Guns and Gun Mounts |  |  |  |
| 36 CIWS Mods | A |  | 2,655 |
| 37 Coast Guard Weapons | A |  | 34,259 |
| 38 Gun Mount Mods | A |  | 81,725 |
| 39 LCS Module Weapons | B | 30 | 4,580 |
| 40 Airborne Mine Neutralization Systems | A |  | 8,710 |
| Other |  |  |  |
| 41 Cancelled Account Adjustments | A |  |  |
| Total Other Weapons |  |  | 145,788 |
| Budget Activity 06: Spares and Repair Parts |  |  |  |
| Spares and Repair Parts |  |  |  |
| 42 Spares and Repair Parts | A |  | 170,041 |
| Total Spares and Repair Parts |  |  | 170,041 |
| Total Weapons Procurement, Navy |  |  | 738,705 |

P-123PBP: FY 2023 President's Budget (Total Base Published Version)

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| 2 | 01 | 03 | 1350 | Missile Industrial Facilities. | Volume 1-47 |
| Appropriation 1507N: Weapons Procurement, Navy |  |  |  |  |  |
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| 3 | 02 | 01 | 2101 | Tomahawk. | .Volume 1-51 |
| 4 | 02 | 02 | 2206 | AMRAAM. | ...Volume 1-67 |
| 5 | 02 | 02 | 2209 | Sidewinder. | ....Volume 1-79 |
| 6 | 02 | 02 | 2234 | Standard Missile. | ..Volume 1-103 |
| 7 | 02 | 02 | 2234 | Standard Missile, Advance Procurement. | ..Volume 1-117 |
| 8 | 02 | 02 | 2236 | JASSM. | . Volume 1-121 |
| 9 | 02 | 02 | 2238 | Small Diameter Bomb II (SDB II).. | Volume 1-129 |
| 10 | 02 | 02 | 2242 | Rolling Airframe Missile (RAM)... | ..Volume 1-139 |

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| 26 | 03 | 01 | 3113 | Surface Ship Torpedo Def (SSTD).. | Volume 1-311 |
| 27 | 03 | 01 | 3117 | MK-48 Torpedo. | Volume 1-317 |
| 28 | 03 | 01 | 3141 | ASW Targets. | Volume 1-333 |
| 29 | 03 | 02 | 3215 | MK-54 Torpedo Mods.. | Volume 1-347 |
| 30 | 03 | 02 | 3225 | MK-48 Torpedo ADCAP Mods. | Volume 1-369 |
| 31 | 03 | 02 | 3231 | Maritime Mines. | Volume 1-383 |
| 32 | 03 | 03 | 3301 | Torpedo Support Equipment.... | Volume 1-387 |
| 33 | 03 | 03 | 3302 | ASW Range Support. | Volume 1-415 |
| 34 | 03 | 04 | 2410 | First Destination Transportation... | ..Volume 1-419 |

Appropriation 1507N: Weapons Procurement, Navy

| Line \# | BA | BSA | Line Item Number | Line Item Title |
| :--- | :--- | :--- | :--- | :--- |
| 35 | 04 | 01 | 4129 | Small Arms and Weapons...................................................................................................... Volume 1 - 423 |
| 36 | 04 | 02 | 4205 | Close-In Wpns Sys (CIWS) Mods.................................................................................................... Volume 1 - 437 |

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| 37 | 04 | 02 | 4206 | Coast Guard Weapons.. | Volume 1-447 |
| 38 | 04 | 02 | 4217 | Gun Mount Mods. | Volume 1-465 |
| 39 | 04 | 02 | 4221 | LCS Module Weapons. | Volume 1-477 |
| 40 | 04 | 02 | 4225 | Airborne Mine Neutralization Systems.. | Volume 1-485 |
| 41 | 04 | 04 | 4500 | Cancelled Account Adjustments... | Volume 1-497 |

Appropriation 1507N: Weapons Procurement, Navy

| Line \# | BA | BSA | Line Item Number | Line Item Title |
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| 42 | 06 | 01 | 6120 | Spares and Repair Parts.................................................................................................. Volume 1 - 499 |

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| Line Item Title | Line Item Number | Line \# | BA | BSA |
| :--- | :--- | :--- | :--- | :--- |
| AARGM | 2327 | 20 | 02 | $03 . \ldots . . . . . . . . . . . . . V o l u m e ~$ |
| AMRAAM | 2206 | 4 | 02 | $02 . . . . . . . . . . . . . . . . . . . V o l u m e ~$ |

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| Line Item Title | Line Item Number | Line \# | BA | BSA |
| :--- | :--- | :--- | :--- | :--- |
| LCS Module Weapons | 4221 | 39 | 04 | $02 . \ldots . . . . . . . . . . . . . . V o l u m e ~$ |
| LRASM | 2291 | 16 | 02 | $02 \ldots . . . . . . . . . . . . . . . V o l u m e ~$ |

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Navy•Budget Estimates FY 2023 • Procurement

| Line Item Title | Line Item Number | Line \# | BA | BSA | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Tomahawk Mods | 2301 | 18 | 02 | 03... | .Volume 1-247 |
| Torpedo Support Equipment | 3301 | 32 | 03 | 03. | .Volume 1-387 |
| Weapons Industrial Facilities | 2420 | 22 | 02 | 04... | Volume 1-299 |

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## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 2: Modification of Missiles

## P-1 Line Item Number / Title: 1250 / TRIDENT II Mods

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0603561N, 0101221N

| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2023$ <br> Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 10,776.585 | 1,155.600 | 1,120.241 | 1,125.164 | 0.000 | 1,125.164 | 1,230.301 | 1,613.423 | 2,429.699 | 2,884.836 | 2,176.384 | 24,512.233 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 10,776.585 | 1,155.600 | 1,120.241 | 1,125.164 | 0.000 | 1,125.164 | 1,230.301 | 1,613.423 | 2,429.699 | 2,884.836 | 2,176.384 | 24,512.233 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 10,776.585 | 1,155.600 | 1,120.241 | 1,125.164 | 0.000 | 1,125.164 | 1,230.301 | 1,613.423 | 2,429.699 | 2,884.836 | 2,176.384 | 24,512.233 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:





 D5LE program cannot be extended further. Several components are obsolete, out of production, and are no longer supported by industry.




 Requirements Review (SRR) and subsystem SRRs.





 its Milestone A and Milestone B decisions bounds the external interfaces and silhouette of the SWS makes modernization of the D5LE SWS as the most effective acquisition approach.

The TRIDENT II Mods Budget Line Item 1250 budget is broken out into three P-5 exhibits:

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 2 : Modification of Missiles
ID Code (A=Service Ready, B=Not Service Ready): A

## P-1 Line Item Number / Title: <br> 1250 / TRIDENT II Mods

 TRIDENT II program.
(2) The Operating and Support Costs program funds efforts associated with the sustainment of TRIDENT II (D5) missiles to include Warhead Components, Mk4B Shape Stable Nose Tip (SSNT), refreshes and replacement of D5 legacy tooling and test support equipment, Supportability Mods/Strategic Programs Alteration (SPALT) Insertion, system integration efforts, and replacement of aging rocket motors.
(3) The D5 Life Extension II (D5LE2) activities begin the detailed design and non-recurring engineering necessary for Strategic Weapons Systems (SWS) subsystems (e.g. Missile, Guidance, Fire Control, Launcher, Navigation, etc.) critical to evaluate impacts to design driven by System Level requirement refinement. FY 2023 commences modernization activities associated with detailed D5LE2 design and begins the transition from RDT\&E,N System Level requirements setting and study activities to WPN subsystem level evaluations and design activities, and production/vendor engagement and startup/restart. These activities leverage the Missile and Guidance Technology RDT\&E,N efforts to inform subsystem level design concepts. Design concepts and subsystem level requirement evaluation are critical to supporting the Strategic Weapon System (SWS) System Requirements Review (SRR) and subsystem SRRs.

D5 Life Extension Costs Include:
Joint Fuze Sustainment: The Joint Fuze Sustainment Program produces parts procured by the National Nuclear Security Administration (NNSA) and the Navy to make an Arming, Fuzing, and Firing System (AF\&F) in support of the National Defense Strategy. The Navy purchases eight components which are delivered as a kit to support the AF\&F final delivery. There is a total of 832 AF\&F kits being procured by the Navy. In May 2019, the National Nuclear Security Administration briefed members of the Nuclear Weapons Council that an issue within a base metal electrode (BME) capacitor in B61-12 and W88 Alt370 components did not meet reliability requirements. In conjunction with Strategic Systems Programs (SSP), NNSA pursued a re-spin of the circuit boards with new capacitors and the disposal and replacement of previously procured components affected by this issue. The delivery of AF\&F components impacted by the capacitor issue have executed to the rebaselined schedule and delivered the First Production Unit in May 2021 as shown in the P5. SSP has shifted kit quantities to align with the new delivery schedule which supports shared utilization of NNSA and Department of Energy (DOE) production capacity. The kit quantities represent when all of the eight components are produced and are ready for assemblies into AF\&Fs. The year to year unit costs fluctuation during production is a result of life of part buys, material buys and commercial off the shelf items being procured that year in addition to $A F \& F$ quantity changes. To provide more transparency and clarity to the Joint Fuze Sustainment budget, the budget requirement is now broken out into two categories, (1) Production Engineering/Support and (2) Material/Hardware Procurement. Production Engineering/Support consists of non-touch labor at the Department of Energy (DOE) Sandia National Laboratories, DOE Kansas City, and various industry partners. Additionally, the Production Engineering/Support category captures the required AF\&F quantities. The Material/Hardware Procurement category captures the material costs plus all touch labor associated with procurement and manufacturing of the required AF\&F kit components.

Production Support: Funding supports D5LE Special Test Equipment (STE) and Special Mechanical Equipment (SME) Class 3 hardware repairs based on TRIDENT Alteration Directives (TADs) such as calibration services for embedded standards and gauges, repair of failed STE consoles and components. This equipment is used in the production, test, and assembly of Pre-DD250'd Missile and Missile Hardware repairs and allows SSP to meet OD42150 and OD56278 requirements to manage, maintain, and provide configuration control of approximately 20,500 Pre-DD250 line items. Also funded are (D5LE) system integration efforts, support for the new Test Missile Kits (TMK's) as well as requalification costs of new production lines for Reentry Body, and D5LE electronic assemblies transitioning from Sunnyvale, CA to Waterton, CO and Titusville, FL. Through FY22 funding also supported D5LE flight test instrumentation and analysis, and costs in support of and preparation for Commanders Evaluation Test (CET) and Demonstration and Shakedown Operation (DASO) operations. These costs included: Flight Test Management, Planning, \& Instrumentation Support, Mission Operation \& Data Acquisition Support, Post Mission Data Processing \& Analysis, and Systems Maintenance. CET and DASO flights for D5LE are completed in FY2022 and transition to Follow-on Commander's Evaluation Test (FCETs) Flights which are funded with Operation and Maintenance, Navy funding beginning in FY2023.

Guidance Hardware: Funding supports procurement and associated production support of sub-components necessary for a complete Guidance System (GS) which consists of an Inertial Measurement Unit (IMU) and an Electronics Assembly (EA). Within the IMU and EA there are numerous sub-components including the Guidance Circuit Card Assemblies (CCA), inertial sensor (Alternate Pendulous Integrating Gyroscopic Accelerometer (Alt-PIGA), and Interferometric Fiber Optic Gyros (IFOG). These sub-components are required to accomplish the Guidance Hardware Strategic Systems Programs Alterations (SPALT) of the Guidance System assemblies. The SPALT is accomplished at the Integrated Support Facility by upgrading MOD 0 (Zero) Guidance Systems IMU and EA with CCAs, Alt-PIGAs, and IFOGs, making them MOD 1 (One) Guidance Systems. Funding also supports the Guidance test equipment and test stations' refresh program that is used to identify poor performing and aging/obsolescent Guidance hardware

## Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 2 :

Modification of Missiles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0603561N, 0101221N

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

 program updates stations over a 3-year period every 8 years. FY2023 is the start of the next refresh/upgrade cycle that was last completed FY $2015-2017$.
 extend the life of the D5 Missile to align with the OHIO Class life.

Operating and Support Costs Include:

 efforts that allow the Fire Control System to electrically distinguish between W76-1 and W76-2 warheads.
 tips to Mk4B Shape Stable Nose Tips in order to provide more consistent and predictable flight performance characteristics of the weapon system.




 funds development, qualification, documentation, proofing, and production of hardware and software kits.
 Measurement Diagnostic Equipment Life Cycle Support efforts at NSWC Corona, Crane and Unified Industries Incorporated are also funded in this category.

 mechanics, technicians, production planners and controllers, along with missile system engineers.

End of Production Missile and Guidance Costs: Funding provides for end of production spares as well as costs associated with shutting down production lines.
 tooling, railcar support and production evaluation testing and static firing.


 their limited service life and safety concerns associated with a manned platform, these energetic components need to be requalified, reproduced, and deployed.

| Appropriation / Budget Activity / Budget Sub Activity: |  |
| :--- | :--- |
| 1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 2: | P-1 Line Item Number / Title: |
| Modification of Missiles | 1250 / TRIDENT II Mods |

## D5 Life Extension 2 (D5LE2) Costs Include:

Flight Systems:

 restart planning for pull-through designs from the legacy D5/D5LE system, including portions of the Post Boost Control System (PBCS).

 motors, \& slip rings some of which were last produced as a part of D5 decades ago.

Systems Engineering/Test \& Evaluation:
 level modeling, and design concept reports.
 (level 1), architecture and interface modeling, configuration and data management, and in support of a Common Parts Program.

Test and Evaluation: FY2023 efforts include SWS subsystem test requirements definitions and reviews, and design of enhanced test Concepts of Operation and facilitation plans.
 trainer hardware.

Ship Interface:
 D5LE2 iteration of the SWS Fire Control subsystem design.

 launch performance. Begins the porting of existing Launcher models into the D5LE2 digital engineering environment.
 digital model design and integration into the D5LE2 digital environment.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 2:
Modification of Missiles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0603561N, 0101221N

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


 for system level artifacts. Mission and System Assurance efforts as the system architecture is defined and the surety, safety, and cyber security processes are put into place.

D5LE2 ( $\mathrm{P}-5$ set three) is a new start effort.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 2:

 Modification of Missiles
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1 / TRIDENT II Mods - D5 Life Extension | P-5a, P-21 |  | 178 | - 14,919.600 | - / 594.367 | - 1575.432 | - / 494.019 | - 10.000 | - / 494.019 |
| P-5 | 2 / TRIDENT II Mods -Operating and Support Costs | P-5a, P-21 |  |  | - 15,856.985 | - 1561.233 | - 1544.809 | - 1565.890 | - 10.000 | - 1565.890 |
| P-5 | 3 / D5LE2 [D5LE2] |  |  |  | - 10.000 | - 10.000 | - 10.000 | - $/ 65.255$ | - 10.000 | - $/ 65.255$ |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /10,776.585 | - /1,155.600 | - /1,120.241 | - / 1,125.164 | - 10.000 | - /1,125.164 |

*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:

Funding in the TRIDENT II Mods line is required to continue the procurement of TRIDENT II missiles and currently supports the life-extension of the D5 missile.
TRIDENT II Mods - D5 Life Extension Program P-5:

 support the extended service life of the OHIO Class Submarines.



 delivered in FY2022.


 equipment disposal efforts are winding down, which lower system integration efforts.

Guidance Hardware Costs overall increases from FY2022 to FY2023 (+\$-27.413M):
(Cost element 3.1.2) (-\$.405M) Interferometric Fiber Optic Gyroscope (IFOG) schedule based quantity reduction of 7 IFOGs, FY2023 is the final procurement year for the MOD 1 Guidance Sensors IFOGs The decreased IFOG quantities being procured is due to FY2023 being the last year of procurements of the components as required totals of IFOGs to support Guidance system-level production of (Inertial Measurement Unit (IMU) and Electronic Assemblies (EA) are reached.

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 2 : Modification of Missiles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0603561N, 0101221N

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

(Cost element 3.1.3) (-\$4.823M) Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) schedule based quantity reduction of 26 Alt-PIGAs. FY2023 is the final procurement year for the MOD 1 Guidance Sensors Alt-PIGAs. The decreased Alt-PIGA quantities being procured is due to FY2023 being the last year of procurements of the components as required totals of Alt-PIGAs to support Guidance system-level production of (Inertial Measurement Unit (IMU) and Electronic Assemblies (EA) are reached.
(Cost element 3.1.4) (+\$14.941M) The Guidance Production Support funding includes all non-touch labor that supports production at the prime contractor, subcontractor, and component and subassembly factories. This includes engineering, quality, and program management at Draper, General Dynamics, Honeywell, Raytheon, Moog, and other sub-contractor factories and facilities. The Production Support budget line increases in FY2023 for three primary reasons:

1. The Guidance System production at the Integrated Support Facility has been and will remain at max production rate between FY2019-FY2024.
2. Guidance Production Support costs cover all issues that arise in production as well as associated implementation of solutions to those issues. In the past few years a few significant issues occurred in production, the largest two of which were
a. The IFOG Integrated Optics Chip (IOC) issue, which required a new IOC vendor to be stood up and qualified, a new IFOG sense loop assembly (SLA) capability to be qualified, and an IFOG upgrade capability to be qualified at a new major subcontractor (Moog). In addition, the 700 IFOGs delivered to date, as well as the > than 150 Guidance Systems that had already been SPALTED with new IFOGS, require upgrade to the latest IFOG configuration.
b. Standing up a second source for the immensely complex Alt-PIGA due to cost, schedule and quality issues at the sole source vendor.
3. Thirdly, Guidance production support continues to cover all major subcontractors and factories through shutdown, often requiring effort years after the components are scheduled to be delivered. Guidance System (GS) components require very long lead times for long lead material, assembly and test of complex sensors and other electrical components. The Guidance production support covers component requalification, re-procurement, and re-work, quality assessment, appropriate assembly level upgrades, and program management of these major subcontractors and factories. The production support needs to rapidly investigate and correct production and quality issues that are vital to delivering the MOD 1 Guidance System to the fleet on time and within budget, including when those issues arise after initial component procurement.
(Cost element 3.1.5) (+\$6.748M) The Guidance Hardware Strategic Systems Programs Alterations (SPALT) Assemblies funding provides for the touch labor for assembly of the Guidance System being SPALTed. The Guidance System SPALT is accomplished at the Integrated Support Facility by upgrading the MOD 0 (Zero) Guidance Systems Inertial Measurement Unit (IMU) and Electronic Assembly (EA) with Circuit Card Assemblies (CCA), Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) and Interferometric Fiber-Optic Gyro (Alt-PIGAs and (IFOG), making them MOD 1 (One) Guidance Systems. These costs cover specifically the touch labor and the required material for the conduct of the MOD 0 to MOD 1 SPALT. The touch labor associated with the SPALT of MOD 0 to MOD 1 Guidance System was previously contained in the CCA line (prior to FY22) as this is the effort required to install the new electronics (CCAs/Sensors) into the upgraded Guidance System. Since the CCA component procurement ended in FY 2021, this effort rolled into the Guidance Production Support line which appeared like a significant additional request. To provide better fidelity in FY2022, the increased Guidance Production Support was then further broken down by creating the new line "SPALT Assemblies" to show further detail into the touch labor associated with Guidance System production at the Integrated Support Facility that was previously captured within CCA line.
(Cost element 3.1.6) (+\$10.952M) Test Equipment Upgrades, The test equipment and test stations that are used to identify poor performing and aging/obsolescent guidance hardware components are beginning a planned three-year refresh cycle beginning FY 2023. Guidance test and support stations are required to enable SPALT production of MK6 MOD 1 Guidance Systems to meet the Full Operational Capability (FOC) of MOD 1 by FY2025. Test stations will continue to be necessary after the completion of SPALT production, supporting the Guidance Repair program to ensure that fleet failures can be repaired and returned to fleet service so that Guidance fleet requirements can be met. Guidance test and support equipment are essential to maintaining the deployed Guidance Systems. Test stations are also vital to the Guidance Surveillance program that provides critical insight to guidance system performance at system and component level allowing the program to address potential issues before impacting the fleet and providing valuable insight into operation performance of the guidance system itself. The Guidance Program has used a targeted Test Equipment refresh program to address obsolescence and identified problems to keep issues from impacting production, repair and surveillance activities. The Test Equipment refresh program updates stations over a 3 -year period every 8 years. FY2023 is the start of the next cycle and the last was completed FY 2015-2017. FY2023 efforts are focused on updates to Guidance System Test Station, Torque Motor Test Station, Resolver Test Station, and Slip Ring Test Station. These stations support both SPALT Production and future Repair Programs. Test stations that support flight test and integration test programs for surveillance and problem investigations are required and planned for in future years.

## P-1 Line Item Number / Title:

1250 / TRIDENT II Mods

## Modification of Missiles



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




TRIDENT II Mods - Operating and Support Costs P-5:

 aging rocket motors.

Warhead Components 2\% escalation only
 drawings, etc) complete in FY2022 and other program safety integration and SWS level system engineering support efforts decrease.




 the initial equipment procurement.

Systems Integration and Planning: 2\% escalation only
Supportability Mods/SPALT Insertion: 2\% escalation only
EOP Missile/Guidance Costs: $2 \%$ escalation only

 Nose Fairing Jettison Motors, and Firing Unit SPALT efforts.
FY2023 begins the start of SRM Block Requalification, which is required to address a critical material supplier change in motor insulation.




 associated with a manned platform, these energetic components need to be requalified, reproduced, and deployed.


## UNCLASSIFIED



| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / TRIDENT II Mods - D5 Life Extension |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: 178 |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 3.1.2) Interferometric Fiber-Optic Gyro (IFOG) ${ }^{(\dagger)}{ }^{(4)}$ | 131.665 | 1,316 | 173.271 | 126.680 | 200 | 25.336 | 129.085 | 200 | 25.817 | 131.668 | 193 | 25.412 | - - | - | 0.000 | 131.668 | 193 | 25.412 |
| 3.1.3) Alternate <br> Pendulous Integrating Gyroscope Accelerometer (AltPIGA) ${ }^{(\dagger)(5)}$ | 231.770 | 1,275 | 295.507 | 213.991 | 220 | 47.078 | 218.055 | 220 | 47.972 | 222.418 | 194 | 43.149 | - | - | 0.000 | 222.418 | 194 | 43.149 |
| 3.1.4) Guidance Production Support ${ }^{(6)}$ | - | - | 411.991 | - | - | 47.630 | - | - | 60.755 | - | - | 75.696 | - | - | 0.000 | - | - | 75.696 |
| $\begin{aligned} & \text { 3.1.5) SPALT } \\ & \text { Assemblies }{ }^{(7)} \end{aligned}$ | - | - | 0.000 | - | - | 0.000 | - | - | 18.687 | - | - | 25.435 | - | - | 0.000 | - | - | 25.435 |
| 3.1.6) Test Equipment Upgrade ${ }^{(8)}$ | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 10.952 | - | - | 0.000 | - | - | 10.952 |
| Subtotal: Recurring Cost | - | - | 1,645.492 | - | - | 214.431 | - | - | 153.231 | - | - | 180.644 | - | - | 0.000 | - | - | 180.644 |
| Subtotal: Hardware - <br> Guidance Hardware Cost | - | - | 1,645.492 | - | - | 214.431 | - | - | 153.231 | - | - | 180.644 | - | - | 0.000 | - | - | 180.644 |
| Hardware - Fleet Return Missile Electronic SPALT Kits Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1.1) Flight Control Electronic Assembly (FCEA) ${ }^{(\dagger)}$ | 632.061 | 196 | 123.884 | 667.333 | 45 | 30.030 | 677.333 | 51 | 34.544 | 690.879 | 50 | 34.544 | - | - | 0.000 | 690.879 | 50 | 34.544 |
| 4.1.2) Missile Inverter ${ }^{(\dagger)}{ }^{(9)}$ | 863.548 | 115 | 99.308 | 912.480 | 25 | 22.812 | 926.160 | 25 | 23.154 | 944.683 | 25 | 23.617 | - | - | 0.000 | 944.683 | 25 | 23.617 |
| 4.1.3) Command Sequencer ${ }^{(\dagger)}{ }^{(10)}$ | 680.980 | 100 | 68.098 | 721.632 | 19 | 13.711 | 732.465 | 43 | 31.496 | 747.114 | 43 | 32.126 | - | - | 0.000 | 747.114 | 43 | 32.126 |
| 4.1.4) Interlocks ${ }^{(\dagger)}$ (11) | 1,196.095 | 200 | 239.219 | 1,263.952 | 42 | 53.086 | 1,282.909 | 44 | 56.448 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 4.1.5) Missile Production Support (12) | - | - | 248.586 | - | - | 41.756 | - | - | 32.110 | - | - | 29.825 | - | - | 0.000 | - | - | 29.825 |
| Subtotal: Recurring Cost | - | - | 779.095 | - | - | 161.395 | - | - | 177.752 | - | - | 120.112 | - | - | 0.000 | - | - | 120.112 |
| Subtotal: Hardware - Fleet Return Missile Electronic SPALT Kits Cost | - | - | 779.095 | . | . | 161.395 | - | - | 177.752 | - | . | 120.112 | . | - | 0.000 | - | - | 120.112 |
| Gross/Weapon System Cost | - | - | 4,919.600 | - | - | 594.367 | - | - | 575.432 | - | - | 494.019 | - | - | 0.000 | - | - | 494.019 |

[^0]Exhibit P-5, Cost Analysis: PB 2023 Navy

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: | Item Number / Title [DODIC]: |
| :--- | :--- | :--- | :--- |
| $1507 N$ / 01 / 2 | 1250 / TRIDENT II Mods | / TRIDENT II Mods - D5 Life Extension |

P-1 Line Item Number / Title:
1250 / TRIDENT II Mods
MDAP/MAIS Code: 178

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

## Footnotes:


 for the kits decrease (-\$17.249M).
 Thermal Batteries and Application Specific Integrated Circuits (ASIC) wafers and packaging materials get delivered in FY2022.


 D5 equipment disposal efforts are winding down, which lower system integration efforts.

 Measurement Unit (IMU) and Electronic Assemblies (EA) are reached.

 system-level production of (Inertial Measurement Unit (IMU) and Electronic Assemblies (EA) are reached.










 procurement.






 previously captured within CCA line.






| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods | Item Number / Title [DODIC]: <br> 1 / TRIDENT II Mods - D5 Life Extension |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : |  | MDAP/MAIS Code: 178 |
| providing valuable insight into operation performance of the guidance sys to keep issues from impacting production, repair and surveillance activitie last was completed FY 2015-2017. FY2023 efforts are focused on updat both SPALT Production and future Repair Programs. Test stations that sump <br> (9) <br> Missile Inverter unit cost $2 \%$ escalation adjustment increases total cos <br> ${ }^{(10)}$ Command Sequencer $2 \%$ escalation adjustment increases total cost <br> ${ }^{(11)}$ Interlocks production ending in FY2022 (-\$56.448M). <br> ${ }^{(12)}$ Decreased production support as interlocks production goes away (- | self. The Guidance Program has used Test Equipment refresh program upda Guidance System Test Station, Torque flight test and integration test programs 463M). <br> 30M). <br> 5M). | m to address obsolescence and identified problems years. FY2023 is the start of the next cycle and the , and Slip Ring Test Station. These stations support ons are required and planned for in future years. |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  | Item Number / Title [DODIC]: <br> 1 / TRIDENT II Mods - D5 Life Extension |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | $\begin{gathered} \text { Date } \\ \text { of First } \end{gathered}$ Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) Production Engineering/ Support ${ }^{(\dagger)}$ |  | 2021 | Department of Energy (DOE) / Kanas City, MO | MIPR | SSP - Washington Navy Yard | Oct 2020 | May 2021 | 29 | 1,085.345 | Y |  |  |
| 1.1.1) Production Engineering/ Support ${ }^{(\dagger)}$ |  | 2022 | Department of Energy (DOE) / Kanas City, MO | MIPR | SSP - Washington Navy Yard | Oct 2021 | May 2022 | 128 | 357.719 | Y |  |  |
| 1.1.1) Production Engineering/ Support ${ }^{(\dagger)}$ |  | 2023 | Department of Energy (DOE) / Kanas City, MO | MIPR | SSP - Washington Navy Yard | Oct 2022 | May 2023 | 178 | 160.331 | Y |  |  |
| 3.1.1) Circuit Card Assemblies (CCA's) ${ }^{(\dagger)}$ |  | 2018 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2018 | Sep 2018 | 55 | 1,591.000 | Y |  |  |
| 3.1.1) Circuit Card Assemblies (CCA's) ${ }^{(\dagger)}$ |  | 2019 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2019 | Sep 2019 | 62 | 1,515.000 | Y |  |  |
| 3.1.1) Circuit Card Assemblies (CCA's) ${ }^{(\dagger)}$ |  | 2020 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2020 | Sep 2020 | 62 | 1,543.790 | Y |  |  |
| 3.1.1) Circuit Card Assemblies $(C C A ' s)^{(\dagger)}$ |  | 2021 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2021 | Sep 2021 | 60 | 1,573.117 | Y |  |  |
| 3.1.2) Interferometric Fiber-Optic Gyro (IFOG) ${ }^{(\dagger)}$ |  | 2017 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2017 | Feb 2018 | 130 | 149.523 | Y |  |  |
| 3.1.2) Interferometric Fiber-Optic Gyro (IFOG) ${ }^{(\dagger)}$ |  | 2018 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2018 | Feb 2019 | 185 | 125.000 | Y |  |  |
| 3.1.2) Interferometric Fiber-Optic Gyro (IFOG) ${ }^{(\dagger)}$ |  | 2019 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2019 | Feb 2020 | 200 | 122.000 | Y |  |  |
| 3.1.2) Interferometric Fiber-Optic Gyro (IFOG) ${ }^{(\dagger)}$ |  | 2020 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2020 | Feb 2021 | 200 | 124.320 | Y |  |  |
| 3.1.2) Interferometric Fiber-Optic Gyro (IFOG) ${ }^{(\dagger)}$ |  | 2021 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2021 | Feb 2022 | 200 | 126.680 | Y |  |  |
| 3.1.2) Interferometric Fiber-Optic Gyro (IFOG) ${ }^{(\dagger)}$ |  | 2022 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2022 | Feb 2023 | 200 | 129.085 | Y |  |  |
| 3.1.2) Interferometric Fiber-Optic Gyro (IFOG) ${ }^{(\dagger)}$ |  | 2023 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2023 | Feb 2024 | 193 | 131.668 | Y |  |  |
| 3.1.3) Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) ${ }^{(\dagger)}$ |  | 2017 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2017 | Jun 2018 | 125 | 261.664 | Y |  |  |
| 3.1.3) Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) ${ }^{(\dagger)}$ |  | 2018 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2018 | Jun 2019 | 180 | 240.000 | Y |  |  |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  | Line Item Nu 50 / TRIDENT II | er / Title: Mods |  |  | $\begin{aligned} & \text { Item I } \\ & 1 / \mathrm{TF} \end{aligned}$ | Number / RIDENT II | Title Mods | DODIC]: <br> D5 Life | xtension |
| Cost Elements | O <br> C <br> O | FY | Contractor and Location |  | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 3.1.3) Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) ${ }^{(\dagger)}$ |  | 2019 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2019 | Jun 2020 | 200 | 231.000 | Y |  |  |
| 3.1.3) Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) ${ }^{(\dagger)}$ |  | 2020 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2020 | Jun 2021 | 220 | 210.000 | Y |  |  |
| 3.1.3) Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) ${ }^{(\dagger)}$ |  | 2021 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2021 | Jun 2022 | 220 | 213.991 | Y |  |  |
| 3.1.3) Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) ${ }^{(\dagger)}$ |  | 2022 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2022 | Jun 2023 | 220 | 218.055 | Y |  |  |
| 3.1.3) Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) ${ }^{(\dagger)}$ |  | 2023 | Charles Stark Draper Laboratory, INC / Cambridge MA | Various | SSP - Washington Navy Yard | Feb 2023 | Jun 2024 | 194 | 222.418 | Y |  |  |
| 4.1.1) Flight Control Electronic Assembly (FCEA) ${ }^{(\dagger)}$ |  | 2016 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2015 | Nov 2017 | 33 | 607.394 | Y |  |  |
| 4.1.1) Flight Control Electronic Assembly (FCEA) ${ }^{(\dagger)}$ |  | 2017 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2016 | Nov 2018 | 40 | 618.925 | Y |  |  |
| 4.1.1) Flight Control Electronic Assembly (FCEA) ${ }^{(\dagger)}$ |  | 2018 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2017 | Nov 2019 | 40 | 630.700 | Y |  |  |
| 4.1.1) Flight Control Electronic Assembly (FCEA) ${ }^{(\dagger)}$ |  | 2019 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2018 | Nov 2020 | 41 | 642.683 | Y |  |  |
| 4.1.1) Flight Control Electronic Assembly (FCEA) ${ }^{(\dagger)}$ |  | 2020 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2019 | Nov 2021 | 42 | 654.881 | Y |  |  |
| 4.1.1) Flight Control Electronic Assembly (FCEA) ${ }^{(\dagger)}$ |  | 2021 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2020 | Nov 2022 | 45 | 667.333 | Y |  |  |
| 4.1.1) Flight Control Electronic Assembly (FCEA) ${ }^{(\dagger)}$ |  | 2022 | Lockheed Martin / Waterton, CO | Various | SSP - Washington Navy Yard | Nov 2021 | Nov 2023 | 51 | 677.333 | Y |  |  |
| 4.1.1) Flight Control Electronic Assembly (FCEA) ${ }^{(\dagger)}$ |  | 2023 | Lockheed Martin / Waterton, CO | Various | SSP - Washington Navy Yard | Nov 2022 | Nov 2024 | 50 | 690.879 | Y |  |  |
| 4.1.2) Missile Inverter ${ }^{(\dagger)}$ |  | 2016 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2015 | Jan 2018 | 24 | 830.500 | Y |  |  |
| 4.1.2) Missile Inverter ${ }^{(\dagger)}$ |  | 2017 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2016 | Jan 2019 | 21 | 846.286 | Y |  |  |
| 4.1.2) Missile Inverter ${ }^{(\dagger)}$ |  | 2018 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2017 | Jan 2020 | 20 | 862.400 | Y |  |  |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  | Item Number / Title [DODIC]: <br> 1 / TRIDENT II Mods - D5 Life Extension |  |  |  |  |
| Cost Elements | O c 0 | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 4.1.2) Missile Inverter ${ }^{(+)}$ |  | 2019 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2018 | Jan 2021 | 25 | 878.760 | Y |  |  |
| 4.1.2) Missile Inverter ${ }^{(t)}$ |  | 2020 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2019 | Jan 2022 | 25 | 895.480 | Y |  |  |
| 4.1.2) Missile Inverter ${ }^{(t)}$ |  | 2021 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2020 | Jan 2023 | 25 | 912.480 | Y |  |  |
| 4.1.2) Missile Inverter ${ }^{(t)}$ |  | 2022 | Lockheed Martin / Waterton, CO | Various | SSP - Washington Navy Yard | Nov 2021 | Jan 2024 | 25 | 926.160 | Y |  |  |
| 4.1.2) Missile Inverter ${ }^{(\dagger)}$ |  | 2023 | Lockheed Martin / Waterton, CO | Various | SSP - Washington Navy Yard | Nov 2022 | Jan 2025 | 25 | 944.683 | Y |  |  |
| 4.1.3) Command Sequencer ${ }^{(t)}$ |  | 2016 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2015 | Feb 2018 | 24 | 656.833 | Y |  |  |
| 4.1.3) Command Sequencer ${ }^{(+)}$ |  | 2017 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2016 | Feb 2019 | 19 | 669.316 | Y |  |  |
| 4.1.3) Command Sequencer ${ }^{(+)}$ |  | 2018 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2017 | Feb 2020 | 19 | 682.000 | Y |  |  |
| 4.1.3) Command Sequencer ${ }^{(+)}$ |  | 2019 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2018 | Feb 2021 | 19 | 694.947 | Y |  |  |
| 4.1.3) Command Sequencer ${ }^{(+)}$ |  | 2020 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2019 | Feb 2022 | 19 | 708.158 | Y |  |  |
| 4.1.3) Command Sequencer ${ }^{(+)}$ |  | 2021 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2020 | Feb 2023 | 19 | 721.632 | Y |  |  |
| 4.1.3) Command Sequencer ${ }^{(+)}$ |  | 2022 | Lockheed Martin / Waterton, CO | Various | SSP - Washington Navy Yard | Nov 2021 | Feb 2024 | 43 | 732.465 | Y |  |  |
| 4.1.3) Command Sequencer ${ }^{(+)}$ |  | 2023 | Lockheed Martin / Waterton, CO | Various | SSP - Washington Navy Yard | Nov 2022 | Feb 2025 | 43 | 747.114 | Y |  |  |
| 4.1.4) Interlocks ${ }^{\left({ }^{(\dagger)}\right.}$ |  | 2016 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2015 | Nov 2017 | 36 | 1,150.417 | Y |  |  |
| 4.1.4) Interlocks ${ }^{(+)}$ |  | 2017 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2016 | Nov 2018 | 41 | 1,172.293 | Y |  |  |
| 4.1.4) Interlocks $^{(+)}$ |  | 2018 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2017 | Nov 2019 | 41 | 1,194.561 | Y |  |  |
| 4.1.4) Interlocks $^{(\dagger)}$ |  | 2019 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2018 | Nov 2020 | 41 | 1,217.244 | Y |  |  |
| 4.1.4) Interlocks $^{(+)}$ |  | 2020 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2019 | Nov 2021 | 41 | 1,240.390 | Y |  |  |
| 4.1.4) Interlocks ${ }^{(+)}$ |  | 2021 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2020 | Nov 2022 | 42 | 1,263.952 | Y |  |  |

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  | Item Number / Title [DODIC]: <br> 1 / TRIDENT II Mods - D5 Life Extension |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location |  | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost (\$ K) | Specs Avail Now? |  | RFP Issue Date |
| 4.1.4) Interlocks ${ }^{(\dagger)}$ |  | 2022 | Lockheed Martin / Waterton, CO |  | Various | SSP - Washington Navy Yard | Nov 2021 | Nov 2023 | 44 | 1,282.909 | Y |  |  |

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

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## UNCLASSIFIED



## UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2

## P-1 Line Item Number / Title:

 1250 / TRIDENT II Mods| Cost Elements (Units in Each) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{o} \end{aligned}$ | $\begin{gathered} \mathbf{M} \\ \mathbf{F} \\ \mathbf{R} \\ \mathbf{\#} \end{gathered}$ | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \hline \text { ACCEPT } \\ \text { PRIOR } \\ \text { TO 1 } \\ \text { OCT } \\ \text { 2017 } \end{array}$ | BAL <br> AS OF <br> 1 OCT |
| 1.1.1) Production Engineering/Support ${ }^{(1)}$ |  |  |  |  |  |  |
|  | 1 | 2021 | NAVY | 29 | 0 | 29 |
|  | 1 | 2022 | NAVY | 128 | 0 | 128 |
|  | 1 | 2023 | NAVY | 178 | 0 | 178 |


| Fiscal Year 2018 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Calendar Year 2018 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |
| 0 | N | D | J | F | M | A | m | J | $J$ | A | S | 0 | N | D | J | F | M | A | M | $J$ | $J$ | A | S |
| C | 0 | E | A | E | A | P | A | U | U | U | E | C | 0 | E | A | E | A | P | A | U | U | U | E |
| T | v | c | N | B | R | R | Y | N | L | G | P | T | v | c | N | B | R | R | Y | N | L | G | P |

Date: April 2022

## Item Number / Title [DODIC]:

1 / TRIDENT II Mods - D5 Life Extension
3.1.1) Circuit Card Assemblies (CCA's)

3.1.2) Interferometric Fiber-Optic Gyro (IFOG) ${ }^{(4)}$
Prior Years Deliveries: 601

3.1.3) Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) ${ }^{(5)}$
Prior Years Deliveries: 550


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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / TRIDENT II Mods - D5 Life Extension |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2018 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  | BAAANCE |
| $\begin{array}{c\|c}  & M \\ o & \\ \mathrm{C} \\ \mathrm{C} \\ \mathrm{O} & \# \\ \hline \end{array}$ |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2018 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC OTY | $\begin{gathered} \text { PRO1 } \\ \text { TOCT } \\ \text { OCT } \\ 2017 \end{gathered}$ | $\begin{gathered} \text { DUL } \\ \text { DSE } \\ \text { AS OF } \\ 1 \text { OC } \end{gathered}$ | O | $\begin{aligned} & \text { N } \\ & \text { o } \\ & \text { V } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \end{aligned}$ | $\begin{aligned} & A \\ & \mathbf{U} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { v } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 5 | 2020 | NAVY | 42 | 0 | 42 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 42 |
| 5 | 2021 | NAVY | 45 | 0 | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 45 |
| 6 | 2022 | NAVY | 51 | 0 | 51 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 51 |
| 6 | 2023 | NAVY | 50 | 0 | 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |
| 4.1.2) Missile Inverter ${ }^{(9)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 2016 | NAVY | 24 | 0 | 24 | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  | 2 |  |  |  |  |  |  |  |  |  | 0 |
| 7 | 2017 | NAVY | 21 | 0 | 21 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| 7 | 2018 | NAVY | 20 | 0 | 20 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 |
| 7 | 2019 | NavY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 25 |
| 7 | 2020 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25 |
| 7 | 2021 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25 |
| 8 | 2022 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25 |
| 8 | 2023 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25 |
| 4.1.3) Command Sequencer ( ${ }^{(10)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 2016 | Navy | 24 | 0 | 24 | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  | 0 |
| 9 | 2017 | NAVY | 19 | 0 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 4 |
| 9 | 2018 | NAVY | 19 | 0 | 19 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 |
| 9 | 2019 | NAVY | 19 | 0 | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 19 |
| 9 | 2020 | NAVY | 19 | 0 | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 19 |
| 9 | 2021 | NAVY | 19 | 0 | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 19 |
| 10 | 2022 | NAVY | 43 | 0 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 43 |
| 10 | 2023 | NAVY | 43 | 0 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 43 |
| 4.1.4) Interlocks ${ }^{(11)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 2016 | NAVY | 36 | 0 | 36 | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2017 | NAVY | 41 | 0 | 41 | - | - | - | - | - | - | - | - | - | - | - | - | - |  | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| 11 | 2018 | NAVY | 41 | 0 | 41 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 41 |
| 11 | 2019 | NAVY | 41 | 0 | 41 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 41 |
| 11 | 2020 | NAVY | 41 | 0 | 41 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 41 |
| 11 | 2021 | NAVY | 42 | 0 | 42 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 42 |
| 12 | 2022 | Navy | 44 | 0 | 44 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 44 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED



| 1.1.1) Production Engineering/Support ${ }^{(1)}$ |  |  |  |  |  |  |
| ---: | ---: | ---: | :--- | ---: | ---: | ---: | ---: |
|  | 1 | 2021 | NAVY | 29 |  |  |
|  | 1 | 2022 | NAVY | 128 | 0 | 128 |
|  | 1 | 2023 | NAVY | 178 | 0 | 178 |

$\qquad$
3.1.1) Circuit Card Assemblies (CCA's)

| Prior Years Deliveries: 313 |  |  |
| :--- | :--- | :--- |
|  |  |  |


|  | 2 | 2018 | NAVY | 55 |  |
| ---: | ---: | :--- | :--- | ---: | ---: |
|  | 2 | 2019 | NAVY | 62 |  |
|  | 2 | 2020 | NAVY | 62 |  |
|  | 2 | 2021 | NAVY | 60 |  |

3.1.2) Interferometric Fiber-Optic Gyro (IFOG) ${ }^{(4)}$
Prior Years Deliveries: 601

|  | 3 | 2017 | NAVY | 130 | 130 | 0 |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: |
|  | 3 | 2018 | NAVY | 185 | 118 | 67 |
|  | 3 | 2019 | NAVY | 200 | 0 | 200 |
|  | 3 | 2020 | NAVY | 200 | 0 | 200 |
|  | 3 | 2021 | NAVY | 200 | 0 | 200 |
|  | 3 | 2022 | NAVY | 200 | 0 | 200 |
|  | 3 | 2023 | NAVY | 193 | 0 | 193 |


| 16 | 17 | 17 | 17 |
| :---: | :---: | :---: | :---: |
| - | - | - | - |


3.1.3) Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) ${ }^{(5)}$
Prior Years Deliveries: 550

| 4 | 2017 | NAVY | 125 | 125 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 2018 | NAVY | 180 | 60 | 120 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 4 | 2019 | NAVY | 200 | 0 | 200 | - | - | - | - | - | - | - | - | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |  |  |  |  | $0$ |
| 4 | 2020 | NAVY | 220 | 0 | 220 |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 18 | 18 | 18 | 18 | 148 |
| 4 | 2021 | NAVY | 220 | 0 | 220 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | 220 |
| 4 | 2022 | NAVY | 220 | 0 | 220 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 220 |
| 4 | 2023 | NAVY | 194 | 0 | 194 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 194 |
| 4.1.1) | Flight C | ontrol Ele | ssem | (FCEA) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 2016 | NAVY | 33 | 33 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 2017 | NAVY | 40 | 36 | 4 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $0$ |
| 5 | 2018 | NAVY | 40 | 0 | 40 | - | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |  |  |  |  |  |  |  |  |  |  | $0$ |
| 5 | 2019 | NAVY | 41 | 0 | 41 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |  |
|  |  |  |  |  |  | O C T | $\begin{aligned} & \hline \mathbf{N} \\ & \mathbf{o} \\ & \mathbf{v} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \hline \mathbf{A} \\ & \mathbf{P} \\ & \mathbf{R} \end{aligned}$ | $\begin{aligned} & \hline \mathbf{M} \\ & \mathbf{A} \\ & \mathbf{Y} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \hline \mathbf{A} \\ & \mathbf{U} \\ & \mathbf{G} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathbf{O} \\ & \mathbf{V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathbf{A} \\ & \mathbf{N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathbf{M} \\ & \mathbf{A} \\ & \mathbf{R} \end{aligned}$ | $\begin{aligned} & \mathbf{A} \\ & \mathbf{P} \\ & \mathbf{R} \end{aligned}$ | M A Y | J U N | J u L | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / TRIDENT II Mods - D5 Life Extension |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
| $\begin{array}{c\|c}  & M \\ o & \mathrm{~F} \\ \mathrm{C} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{O} & \# \end{array}$ |  |  |  | ACCEPT |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | proc QTY | TO 1 <br> OCT <br> 2019 | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & R \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \mathbf{U} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & R \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { U } \end{aligned}$ | J | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 5 | 2020 | NAVY | 42 | 0 | 42 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 42 |
| 5 | 2021 | NAVY | 45 | 0 | 45 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 45 |
| 6 | 2022 | NAVY | 51 | 0 | 51 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 51 |
| 6 | 2023 | NAVY | 50 | 0 | 50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |
| 4.1.2) Missile Inverter ${ }^{(9)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 2016 | NAVY | 24 | 24 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7 | 2017 | NAVY | 21 | 18 | 3 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7 | 2018 | NAVY | 20 | 0 | 20 | - | - | - | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  | 0 |
| 7 | 2019 | NAVY | 25 | 0 | 25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 7 |
| 7 | 2020 | NAVY | 25 | 0 | 25 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 25 |
| 7 | 2021 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 25 |
| 8 | 2022 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25 |
| 8 | 2023 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25 |
| 4.1.3) Command Sequencere ${ }^{(10)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 2016 | Navy | 24 | 24 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 9 | 2017 | NAVY | 19 | 15 | 4 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 9 | 2018 | NAVY | 19 | 0 | 19 | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |  | 2 | 2 |  |  |  |  |  |  |  |  | 0 |
| 9 | 2019 | NAVY | 19 | 0 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 4 |
| 9 | 2020 | NAVY | 19 | 0 | 19 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 |
| 9 | 2021 | NAVY | 19 | 0 | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 19 |
| 10 | 2022 | NAVY | 43 | 0 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 43 |
| 10 | 2023 | NAVY | 43 | 0 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 43 |
| 4.1.4) Interlocks ${ }^{(11)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 2016 | Navy | 36 | \| 36 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2017 | NAVY | 41 | 37 | 4 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2018 | NAVY | 41 | 0 | 41 | - | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2019 | NAVY | 41 | 0 | 41 | - | - | - | - | - | - | - | - | - | - | - | - | - |  | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| 11 | 2020 | NAVY | 41 | 0 | 41 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 41 |
| 11 | 2021 | NAVY | 42 | 0 | 42 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 42 |
| 12 | 2022 | NAVY | 44 | 0 | 44 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 44 |
|  |  |  |  |  |  | O c T | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M <br>  <br> R | A P R | M A Y | J U N | $\mathrm{J}_{\mathrm{J}}^{\mathrm{u}}$ | $\begin{aligned} & A \\ & \text { A } \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A P R | M A Y | J U N | ${ }_{\text {J }}^{\text {u }}$ | A U G | S |  |

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3.1.1) Circuit Card Assemblies (CCA's)

| Prior Years Deliveries: 313 |  |
| :--- | :--- |
|  | 2 |


| Prior Years Deliveries: |  |  |  |  |  |  |
| ---: | ---: | :--- | :--- | ---: | ---: | ---: |
|  | 2 | 2018 | NAVY | 55 | 55 | 0 |
|  | 2 | 2019 | NAVY | 62 | 62 | 0 |
|  | 2 | 2020 | NAVY | 62 | 62 | 0 |
|  | 2 | 2021 | NAVY | 60 | 5 | 55 |

$5 \quad 5$
3.1.2) Interferometric Fiber-Optic Gyro (IFOG) ${ }^{(4)}$
Prior Years Deliveries: 601

|  | 3 | 2017 | NAVY | 130 | 130 | 0 |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: |
|  | 3 | 2018 | NAVY | 185 | 185 | 0 |
|  | 3 | 2019 | NAVY | 200 | 200 | 0 |
|  | 3 | 2020 | NAVY | 200 | 132 | 68 |
|  | 3 | 2021 | NAVY | 200 | 0 | 200 |
|  | 3 | 2022 | NAVY | 200 | 0 | 200 |
|  | 3 | 2023 | NAVY | 193 | 0 | 193 |


| 17 | 17 | 17 | 17 |
| :---: | :---: | :---: | :---: |
| - | - | - | - |



3.1.3) Alternate Pendulous Integrating Gyroscope Accelerometer (Alt-PIGA) ${ }^{(5)}$
Prior Years Deliveries: 550


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| Exhi | ibit P | -21, Prod | ducti | ion Sc | hedul | : PB | 2023 | Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dat | Apr | 202 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Appr } \\ & 1507 \end{aligned}$ | ropr <br> 7N / | iation / <br> 01 / 2 | Budg | et Acti | ivity / |  |  | $\mathrm{bAc}$ | vity: |  | $\begin{aligned} & \hline \mathbf{P - 1} \\ & 125 \end{aligned}$ | ine / TR | tem <br> IDEN | Num <br> TII | $\begin{aligned} & \text { er / } \\ & \text { ods } \end{aligned}$ | itle: |  |  |  |  |  |  | $\begin{aligned} & \text { Item } \\ & 1 / 7 \end{aligned}$ | Num | $\begin{aligned} & \text { ber I } \\ & \text { NT II } \end{aligned}$ | Title <br> Mods | -DOI |  | xten |  |
|  |  | $\begin{aligned} & \hline \text { Cost E } \\ & \text { (Units } \end{aligned}$ | $\begin{aligned} & \text { Iements } \\ & \text { in Each) } \end{aligned}$ |  |  |  |  |  |  |  | iscal Y | 2022 |  |  |  |  |  |  |  |  |  |  | Fiscal Y | 2023 |  |  |  |  |  | ${ }_{\text {B }}^{\text {B }}$ |
|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  | endar | ear 202 |  |  |  |  |  |  |  |  | Cale | ar Year | 2023 |  |  |  | L |
|  | FY | SERVICE | proc QTY | PRIOR TO 1 OCT 2021 | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & U \\ & G \end{aligned}$ | $\begin{aligned} & \mathbf{S} \\ & \mathbf{E} \\ & \mathbf{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \text { A } \\ & \mathrm{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { Y } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J u L | $\underset{\substack{A \\ \underset{G}{u}}}{ }$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | L N C E |
| 5 | 2020 | NAVY | 42 | 0 | 42 | . | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 5 | 2021 | NAVY | 45 | 0 | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 |
| 6 | 2022 | NAVY | 51 | 0 | 51 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 51 |
| 6 | 2023 | NAVY | 50 | 0 | 50 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 50 |
| 4.1.2) | Missile | Inverter ${ }^{(9)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 2016 | Navy | 24 | 24 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7 | 2017 | NAVY | 21 | 21 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7 | 2018 | Navy | 20 | 20 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7 | 2019 | NAVY | 25 | 18 | 7 | 2 | 2 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7 | 2020 | NAVY | 25 | 0 | 25 | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |  |  |  |  |  |  |  |  |  | 0 |
| 7 | 2021 | NAVY | 25 | 0 | 25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 7 |
| 8 | 2022 | NAVY | 25 | 0 | 25 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 25 |
| 8 | 2023 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 25 |
| 4.1.3) | Comma | and Sequence | (10) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 2016 | Navy | 24 | 24 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 9 | 2017 | NAVY | 19 | 19 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 9 | 2018 | NAVY | 19 | 19 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 9 | 2019 | NavY | 19 | 15 | 4 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 9 | 2020 | NAVY | 19 | 0 | 19 | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  | 0 |
| 9 | 2021 | NAVY | 19 | 0 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 8 |
| 10 | 2022 | NAVY | 43 | 0 | 43 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 43 |
| 10 | 2023 | NAVY | 43 | 0 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 43 |
| 4.1.4) | Interloci | ks ${ }^{(11)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 2016 | Navy | 36 | 36 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2017 | NAVY | 41 | 41 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2018 | NAVY | 41 | 41 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2019 | NAVY | 41 | 37 | 4 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2020 | NAVY | 41 | 0 | 41 | - | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2021 | NAVY | 42 | 0 | 42 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 |
| 12 | 2022 | Navy | 44 | 0 | 44 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 44 |
|  |  |  |  |  |  | - | N | D | A | F | M | A | M | J | j | A | S | O | N | D | ${ }_{\text {A }}$ | F | M | ${ }_{\text {A }}^{\text {P }}$ | M | j | J | A | S |  |
|  |  |  |  |  |  | ${ }_{T}$ | v | c | ${ }_{\text {N }}$ | B | R | R | Y | N | L | G | ${ }_{P}$ | ${ }_{T}$ | v | c | ${ }_{\mathrm{N}}^{\mathrm{N}}$ | ${ }_{\text {B }}$ | R | R | Y | N | U | G | ${ }_{P}$ |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 1250 / TRIDENT II Mods |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / TRIDENT II Mods - D5 Life Extension |  |  |
| $\begin{array}{\|c\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \hline \text { Manufacturing } \\ \text { PLT } \end{gathered}$ | 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 | Department of Energy (DOE) - Kanas City, MO | 29 | 200 | 300 | 9 | 1 | 6 | 7 | 9 | 1 | 6 | 7 |
| 2 | Charles Stark Draper Laboratory, INC - Cambridge MA | 32 | 50 | 83 | 9 | 4 | 7 | 11 | 9 | 4 | 7 | 11 |
| 3 | Charles Stark Draper Laboratory, INC - Cambridge MA | 120 | 144 | 336 | 9 | 4 | 12 | 16 | 9 | 4 | 12 | 16 |
| 4 | Charles Stark Draper Laboratory, INC - Cambridge MA | 96 | 108 | 288 | 9 | 4 | 16 | 20 | 9 | 4 | 16 | 20 |
| 5 | Lockheed Martin Sunnyvale, CA | 12 | 36 | 72 | 9 | 1 | 24 | 25 | 9 | 1 | 24 | 25 |
| 6 | Lockheed Martin - Waterton, CO | 12 | 36 | 72 | 9 | 1 | 24 | 25 | 9 | 1 | 24 | 25 |
| 7 | Lockheed Martin Sunnyvale, CA | 12 | 36 | 48 | 9 | 1 | 26 | 27 | 9 | 1 | 26 | 27 |
| 8 | Lockheed Martin - Waterton, CO | 12 | 36 | 48 | 9 | 1 | 26 | 27 | 9 | 1 | 26 | 27 |
| 9 | Lockheed Martin Sunnyvale, CA | 12 | 36 | 72 | 9 | 1 | 27 | 28 | 9 | 1 | 27 | 28 |
| 10 | Lockheed Martin - Waterton, CO | 12 | 36 | 72 | 9 | 1 | 27 | 28 | 9 | 1 | 27 | 28 |
| 11 | Lockheed Martin Sunnyvale, CA | 12 | 36 | 72 | 9 | 1 | 24 | 25 | 9 | 1 | 24 | 25 |
| 12 | Lockheed Martin - Waterton, CO | 12 | 36 | 72 | 9 | 1 | 24 | 25 | 9 | 1 | 24 | 25 |

"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-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 2 I TRIDENT II Mods -Operating and Support Costs |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Subtotal: Support - Solid Rocket Motors and PBCS Cost | - |  | 2,721.103 | . | . | 314.315 |  | . | 276.415 | . | . | 287.623 | - | . | 0.000 | - |  | 287.623 |
| Support - New Start Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 3.1) Additional } \\ & \text { Movement/Transport// } \\ & \text { Storage/Equip } \\ & \hline \end{aligned}$ | - | - | 37.400 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Support - New Start Cost | - | - | 37.400 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Support - Production SupportMissile Hardware Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1) Production Support/ Missile Hardware ${ }^{(18)}$ | - - | - | 0.000 | - | - | 21.110 | - | - | 27.915 | - | - | 38.245 | - | - | 0.000 | - |  | 38.245 |
| Subtotal: Support Production Support/Missile Hardware Cost | - |  | 0.000 | - | - | 21.110 | - | - | 27.915 | - | - | 38.245 | - | - | 0.000 | - | - | 38.245 |
| Gross/Weapon System Cost | - | - | 5,856.985 | - | - | 561.233 | - | - | 544.809 | - | - | 565.890 | - | - | 0.000 | - | - | 565.890 |

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

## Footnotes:

${ }^{(13)}$ Mk4B Shape Stable Nose Tip (SSNT) decreases from FY2022 to FY2023 ( $-\$ 4.558$ M) Updates and modifications to Reentry Body documentation (Weapon Specifications, Interface Control Drawings, product drawings, etc) complete in FY2022 and other program safety integration and SWS level system engineering support efforts decrease.
${ }^{(14)}$ Tooling, Test/Support Equipment increases from FY2022 to FY2023 (+\$1.480M). The scope of this effort fluctuates annually based upon specific tooling and test support equipment refreshes and procurement needs. In FY2023, planned tooling and test equipment refreshes include: High Voltage Detonator (HVD) Test System, HVD Bridgewire, Servo-actuator Assembly (SAA) Test Console (TC), Through Bulkhead Initiator TC, Pressure Transducer TC, Linear Ordnance System TC, SAA Flush and Fill TC, Circuit Card Assembly Shipboard Tester, Hydraulic TC, System X-ray for the PBCS Gas Generator, Primary Battery TC, and Drive Tractor. Beginning in FY2022 the funding out of cost element 1.4 (Containers) $\$ 104 \mathrm{~K}$ was realigned into this category and will procure shipping containers for post DD250 D5 Missile components, test instrumentation, and Mk4/Mk5 Reentry Bodies. Previously the Containers' funds were used to procure Test Missile Kit Transfer and Aerospike Protective Cap containers. These equipment containers have their own end item number and they are now purchased as part of the initial equipment procurement.
${ }^{(15)}$ Beginning in FY2022 the funding out of cost element 1.4 (Containers) $\$ 104 \mathrm{~K}$ was realigned into cost element 1.3 (Tooling, Test/Support Equipment) and will procure post DD250 D5 Missile components, test instrumentation, and Mk4/Mk5 Reentry Bodies shipping containers. Cost element 1.4 (Containers) procured Test Missile Kit Transfer and Aerospike Protective Cap containers. These equipment containers have their own end item number and they are now purchased as part of the initial equipment procurement.
${ }^{(16)}$ Post Boost Control System schedule based quantity change of minus 2 ( $\left.\$ 3.892 \mathrm{M}\right)$.
${ }^{(17)}$ Other ( $+\$ 10.381 \mathrm{M}$ ) due to Propulsion Viability efforts that develop materials and processes to ensure the future viability of propulsion component production, Nose Fairing Jettison Motors, and Firing Unit SPALT efforts. FY2023 begins the start of Solid Rocket Motor Block Requalification, which is required to address a critical material supplier change in motor insulation.

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods | Item Number / Title [DODIC]: 2 I TRIDENT II Mods -Operating and Support Costs |
| ID Code (A=Service Ready, B=Not Service Ready) : |  | MDAP/MAIS Code: |
| ${ }^{(18)}$ Production Support/Missile Hardware increases from FY2022 to FY2023 (+10.330M). Due to the August 2020 California wild fire which engulfed the Santa Cruz facility, FY2022 ordnance production scope was reduced and funding was utilized for immediately required facility recovery efforts. Wild fire recovery efforts included an assessment of fire damage, evaluating the health of production capability, evaluating ordnance production inventory, and identifying a mitigation strategy to prevent further damage and return to planned ordnance production scope in FY2023. The increase from FY2022 to FY2023 represents ordnance production scope returning to its required state to support production requalification's which are required to reproduce and procure missile hardware energetic components that have limited life and were not intended to be supporting the fleet this long. The missile hardware energetic components are currently deployed beyond their service life of 25 years. Due to their limited service life and safety concerns associated with a manned platform, these energetic components need to be requalified, reproduced, and deployed. |  |  |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 2 I TRIDENT II Mods -Operating and Support Costs |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  | Line Item Num 0 / TRIDENT I | er / Title: Mods |  |  |  |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | $\begin{gathered} \hline \text { Date } \\ \text { of First } \\ \text { Delivery } \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | $\begin{aligned} & \text { RFP Issue } \\ & \text { Date } \end{aligned}$ |
| 2.1) Solid Rocket Motor's ${ }^{(\dagger)}$ |  | 2015 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2014 | Feb 2018 | 12 | 16,066.750 | Y |  |  |
| 2.1) Solid Rocket Motor's ${ }^{(t)}$ |  | 2016 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2015 | Feb 2019 | 12 | 16,366.750 | Y |  |  |
| 2.1) Solid Rocket Motor's ${ }^{(\dagger)}$ |  | 2017 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2016 | Feb 2020 | 12 | 16,677.750 | Y |  |  |
| 2.1) Solid Rocket Motor's ${ }^{(t)}$ |  | 2018 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2017 | Feb 2021 | 12 | 16,994.571 | Y |  |  |
| 2.1) Solid Rocket Motor's ${ }^{(\dagger)}$ |  | 2019 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2018 | Feb 2022 | 12 | 17,317.500 | Y |  |  |
| 2.1) Solid Rocket Motor's ${ }^{(\dagger)}$ |  | 2020 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2019 | Feb 2023 | 12 | 17,646.500 | Y |  |  |
| 2.1) Solid Rocket Motor's ${ }^{(\dagger)}$ |  | 2021 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2020 | Feb 2024 | 12 | 17,981.786 | Y |  |  |
| 2.1) Solid Rocket Motor's ${ }^{(\dagger)}$ |  | 2022 | Lockheed Martin / Waterton, CO | Various | SSP - Washington Navy Yard | Nov 2021 | Feb 2025 | 12 | 18,323.500 | Y |  |  |
| 2.1) Solid Rocket Motor's ${ }^{(\dagger)}$ |  | 2023 | Lockheed Martin / Waterton, CO | Various | SSP - Washington Navy Yard | Nov 2022 | Feb 2026 | 12 | 18,689.970 | Y |  |  |
| 2.2) Post Boost Control System (PBCS) ${ }^{(\dagger)}$ |  | 2015 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2014 | Feb 2018 | 12 | 1,976.167 | Y |  |  |
| 2.2) Post Boost Control System (PBCS) ${ }^{(\dagger)}$ |  | 2016 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2015 | Feb 2019 | 12 | 1,975.083 | Y |  |  |
| 2.2) Post Boost Control System (PBCS) ${ }^{(t)}$ |  | 2017 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2016 | Feb 2020 | 12 | 2,012.583 | Y |  |  |
| 2.2) Post Boost Control System (PBCS) ${ }^{(\dagger)}$ |  | 2018 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2017 | Feb 2021 | 14 | 2,050.857 | Y |  |  |
| 2.2) Post Boost Control System (PBCS) ${ }^{(t)}$ |  | 2019 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2018 | Feb 2022 | 14 | 2,089.786 | Y |  |  |
| 2.2) Post Boost Control System (PBCS) ${ }^{(\dagger)}$ |  | 2020 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2019 | Feb 2023 | 14 | 2,129.500 | Y |  |  |
| 2.2) Post Boost Control System (PBCS) $)^{(\dagger)}$ |  | 2021 | Lockheed Martin / Sunnyvale, CA | Various | SSP - Washington Navy Yard | Nov 2020 | Feb 2024 | 14 | 2,170.000 | Y |  |  |
| 2.2) Post Boost Control System $(\text { PBCS })^{(\dagger)}$ |  | 2022 | Lockheed Martin / Waterton, CO | Various | SSP - Washington Navy Yard | Nov 2021 | Feb 2025 | 14 | 2,211.214 | Y |  |  |

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  | Item Number / Title [DODIC]: <br> 2 / TRIDENT II Mods -Operating and Support Costs |  |  |  |  |
| 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 | $\underset{(\text { Each }}{\text { Qty }}$ | Unit Cost $(\$ K)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 2.2) Post Boost Control System $(\text { PBCS })^{(\dagger)}$ |  | 2023 | Lockheed Martin / Waterton, CO | Various | SSP - Washington Navy Yard | Nov 2022 | Feb 2026 | 12 | 2,255.438 | Y |  |  |

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

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| Exh | ibit P | -21, Prod | ducti | ion Sch | hedul | P | 202 | Nav |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dat | Ap | 202 |  |  |  |  |  |
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|  |  | Cost (Units | ements in Each) |  |  |  |  |  |  |  | Fiscal | ar 20 |  |  |  |  |  |  |  |  |  |  | Fiscal | r 201 |  |  |  |  |  | B |
|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  | enda | Year 2 |  |  |  |  |  |  |  |  |  | ar Yea | 2016 |  |  |  | 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 | PRIOR TO 1 OCT 2014 | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 10 C T \end{gathered}$ | O c T | N | D <br> E <br> C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M <br>  <br> R | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | M | J u N | ${ }_{\text {J }}^{\text {u }}$ | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y } \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { U } \end{aligned}$ | ${ }_{\text {J }}$ | A U G | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | L N C E |
| 2.1) S | olid Roc | ket Motor's |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | Years De | eliveries: 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2015 | Navy | 12 | 0 | 12 |  | A - | - | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
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| 2.2) P | ost Boos | st Control Sys | tem (PBC | S) ${ }^{(16)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | Years De | eliveries: 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2015 | NAVY | 12 | 0 | 12 |  | A - | - | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| 3 | 2016 | NAVY | 12 | 0 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 12 |
| 3 | 2017 | NAVY | 12 | 0 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12 |
| 3 | 2018 | NAVY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 |
| 3 | 2019 | NAVY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 |
| 3 | 2020 | NAVY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 |
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| 4 | 2022 | NAVY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 |
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|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  | lenda | ar 2 |  |  |  |  |  |  |  |  | Calen | ar Yea | 2018 |  |  |  | L |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|} \hline & \mathrm{F} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{O} & \# \end{array}$ | FY | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { مTTY } \end{aligned}$ | $\begin{array}{\|c\|} \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2016 \end{array}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N | D E c | J A N | F E B | M A R | A P R | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J <br> u | $\begin{aligned} & \mathrm{A} \\ & \mathrm{U} \\ & \mathrm{G} \end{aligned}$ | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & F \\ & E \\ & E \\ & B \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \text { A } \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | A N C E |
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| 1 | 2015 | NavY | 12 | 0 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 |
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| 2.2) P | pst Boos | st Control Sy | tem (PBC | s) ${ }^{(16)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 3 | 2018 | NAVY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 14 |
| 3 | 2019 | NavY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 |
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|  | FY | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { مTTY } \end{aligned}$ | $\begin{array}{\|c\|} \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2018 \end{array}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & 0 \\ & \text { c } \\ & \text { T } \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\stackrel{\mathrm{F}}{\mathrm{~F}} \underset{\mathrm{E}}{ }$ | $\begin{aligned} & M \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | $\begin{aligned} & \text { J } \\ & \underset{N}{N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \text { A } \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~N} \end{aligned}$ | ${ }_{\text {J }}$ | $\begin{aligned} & A \\ & \text { A } \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | L N N C E |
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| Prior | ears D | eliveries: 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2015 | Navy | 12 | 8 | 4 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
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| Prior | ears D | eliveries: 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2015 | NAVY | 12 | 8 | 4 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2016 | NAVY | 12 | 0 | 12 | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2017 | NAVY | 12 | 0 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 |
| 3 | 2018 | NAVY | 14 | 0 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 |
| 3 | 2019 | Navy | 14 | 0 | 14 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 |
| 3 | 2020 | NAVY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 14 |
| 3 | 2021 | NAVY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 |
| 4 | 2022 | NAVY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 |
| 4 | 2023 | NAVY | 12 | 0 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12 |
|  |  |  |  |  |  | - | N | ${ }_{\text {D }}$ | J | ${ }_{\text {F }} \mathrm{F}$ | ${ }_{\text {M }}^{\text {M }}$ | A | M ${ }_{\text {M }}$ | J | J | A | S | $\stackrel{\circ}{\mathrm{c}}$ | N | D | ${ }_{\text {J }}$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | ${ }_{\text {M }}^{\text {M }}$ | A ${ }_{\text {P }}$ | M ${ }_{\text {M }}$ | J | J | A | S |  |
|  |  |  |  |  |  |  | v | c | N | в | R | R | Y | N |  | G | ${ }_{P}$ | T | v | c | N | в | R | R | Y | N |  | G | P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 2 / TRIDENT II Mods -Operating and <br> Support Costs |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \end{aligned}$ |
|  |  |  |  | ACCEPT |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |
|  M <br> O  <br> C F <br> R  <br> O $\#$ | FY | SERVICE | PROC QTY | $\begin{array}{\|l\|} \hline \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2020 \\ \hline \end{array}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | D <br> E <br> C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & R \end{aligned}$ | A <br>  <br> P <br> R | M A Y | $\begin{aligned} & \text { J } \\ & \text { U } \end{aligned}$ | J u L | $\underset{G}{A}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J | J | A U G | S E P P |  |
| 2.1) Solid Rocket Motor's |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2015 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2016 | Navy | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2017 | NAVY | 12 | 8 | 4 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | NAVY | 12 | 0 | 12 | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | NAVY | 12 | 0 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 |
| 1 | 2020 | NAVY | 12 | 0 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| 1 | 2021 | NAVY | 12 | 0 | 12 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| 2 | 2022 | NAVY | 12 | 0 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 12 |
| 2 | 2023 | NAVY | 12 | 0 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12 |
| 2.2) Post Boost Control System (PBCS) ${ }^{(16)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2015 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2016 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2017 | NAVY | 12 | 8 | 4 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2018 | NAVY | 14 | 0 | 14 | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2019 | NAVY | 14 | 0 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 4 |
| 3 | 2020 | NAVY | 14 | 0 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 |
| 3 | 2021 | NAVY | 14 | 0 | 14 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 |
| 4 | 2022 | NAVY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 14 |
| 4 | 2023 | NAVY | 12 | 0 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12 |
|  |  |  |  |  |  | O c T | N V V | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | F E B | M <br>  <br> R | A P R | M A Y | J U | ${ }_{\text {J }}^{\text {J }}$ | A U G | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | ${ }_{\text {M }}^{\text {M }}$ | J N | $\mathrm{J}_{\mathrm{J}}^{\mathrm{u}}$ | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 2 I TRIDENT II Mods -Operating and Support Costs |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|c\|} \hline \text { KNO } \\ \text { TO } \\ \text { OCT } \\ 2022 \\ \hline \end{array}$ | $\begin{aligned} & \text { DUE } \\ & \text { AS OF } \\ & \text { 1 OCT } \end{aligned}$ | $\begin{aligned} & \text { o } \\ & \text { c } \\ & \text { T } \end{aligned}$ | N | D E C | J A N | F E B | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A P R | M A Y | J u | J u L | $\begin{aligned} & A \\ & \mathbf{A} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N O v | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A <br>  <br> P <br> R | M A Y | J | J u L | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 2.1) Solid Rocket Motor's |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2015 | NavY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2016 | NavY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2017 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | NAVY | 12 | 8 | 4 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | NAVY | 12 | 0 | 12 | - | - | - | - |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | NAVY | 12 | 0 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 |
| 2 | 2022 | NAVY | 12 | 0 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| 2 | 2023 | NAVY | 12 | 0 | 12 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| 2.2) Post Boost Control System (PBCS) ${ }^{(16)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2015 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2016 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2017 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2018 | NAVY | 14 | 14 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2019 | NAVY | 14 | 10 | 4 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2020 | NAVY | 14 | 0 | 14 | - | - | - | - |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  | 2 |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2021 | NAVY | 14 | 0 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 4 |
| 4 | 2022 | NAVY | 14 | 0 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 |
| 4 | 2023 | NAVY | 12 | 0 | 12 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 2 I TRIDENT II Mods -Operating and Support Costs |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2027 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2028 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2027 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2028 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|c\|} \hline \text { KNO } \\ \text { TO } 1 \\ \text { OCT } \\ 2026 \\ \hline \end{array}$ | $\begin{gathered} \text { BLE } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N O v | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br>  <br> P <br> R | M ${ }_{\text {M }}^{\text {A }}$ | J U N | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | A | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br> $\mathbf{P}$ <br> $\mathbf{R}$ | M A Y | J N | J | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 2.1) Solid Rocket Motor's |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2015 | Navy | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2016 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2017 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2022 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2023 | NAVY | 12 | 8 | 4 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2.2) Post Boost Control System (PBCS) ${ }^{(16)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2015 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2016 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2017 | NAVY | 12 | 12 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2018 | NAVY | 14 | 14 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2019 | NAVY | 14 | 14 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2020 | NAVY | 14 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2021 | NAVY | 14 | 14 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 4 | 2022 | NAVY | 14 | 14 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 4 | 2023 | NAVY | 12 | 8 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  |  | Item Number / Title [DODIC]: 2 / TRIDENT II Mods -Operating and Support Costs |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | 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 Sunnyvale, CA | 12 | 14 | 18 | 9 | 1 | 37 | 38 | 9 | 1 | 37 | 38 |
| 2 | Lockheed Martin - Waterton CO | 12 | 14 | 18 | 0 | 1 | 37 | 38 | 9 | 1 | 37 | 38 |
| 3 | Lockheed Martin Sunnyvale, CA | 12 | 14 | 18 | 9 | 1 | 37 | 38 | 9 | 1 | 37 | 38 |
| 4 | Lockheed Martin - Waterton, CO | 12 | 14 | 18 | 9 | 1 | 37 | 38 | 9 | 1 | 37 | 38 |

## " 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).


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 1250 / TRIDENT II Mods |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 3 / D5LE2 [D5LE2] |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ K)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| 4.1) System Evaluation (27) | - | - | 0.000 | . | . | 0.000 | - | . | 0.000 | - | - | 2.885 | - | . | 0.000 | - | - | 2.885 |
| Subtotal: Support - System Evaluation Cost | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 2.885 | - | - | 0.000 | - | - | 2.885 |
| Gross/Weapon System Cost | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 65.255 | - | - | 0.000 | - | - | 65.255 |

Footnotes:
${ }^{(19)}$ Missile Redesign: D5LE2 Missile subsystem efforts in FY2023 include: Missile Health and Testability Architecture design; Missile Model updates; Avionics design; Test Missile Kit, Structures, and controls concept design to include Nuclear Safety electronics; communications networks \& protocols refinement; Equipment Section design efforts, and Nose Fairing design efforts. Additional efforts include production restart planning for pull-through designs from the legacy D5/D5LE system, including portions of the Post Boost Control System (PBCS).
${ }^{(20)}$ Guidance Redesign: Strategic Guidance (Mk7 Mod 0) system efforts in FY2023 include evaluation of system level requirement flowdown and effects on subsystem concepts and designs. Additional activities include focused design, trades, and vendor engagement/selection for Strategic Guidance Mechanical components and inertial instruments including gimbals, stable members, shock mounts, connectors, torque motors, \& slip rings some of which were last produced as a part of D5 decades ago.
${ }^{(21)}$ Systems Engineering: FY2023 effort will focus on Initial design of the following systems engineering areas: Technical program plans, CONOPS, initial functional architecture design (functional only), requirements (level 1), architecture and interface modeling, configuration and data management, and in support of a Common Parts Program.
${ }^{(22)}$ Test and Evaluation: FY2023 efforts include SWS subsystem test requirements definitions and reviews, and design of enhanced test Concepts of Operation and facilitation plans.
${ }^{(23)}$ Training Equipment: FY2023 efforts initiate evaluation of flowdown of subsystem requirement changes on the legacy D5/D5LE Strategic Weapons Interface Simulator (SWIS) and Segmented Missile Lab (SML) trainer hardware.
${ }^{(24)}$ Fire Control: FY2023 efforts initiate subsystem evaluation of allocated system requirement flowdown to include effects on the legacy and modernized shipboard design. Initiates descriptive digital models of the D5LE2 iteration of the SWS Fire Control subsystem design.
${ }^{(25)}$ Launcher: FY2023 efforts initiate subsystem evaluation of allocated system requirement flowdown to include effects on the legacy Launcher design. Launcher, as a pull through sub-system, evaluates changes in the interface between the modernized D5LE2 Missile and other modernized SWS components with pull-through components such as closures and gas generators as well as evaluates changes for underwater launch performance. Begins the porting of existing Launcher models into the D5LE2 digital engineering environment.
${ }^{(26)}$ Navigation: FY2023 efforts initiate subsystem evaluation of allocated system requirement flowdown to include effects on the legacy and modernized Strategic Navigation design and sensors. Begins Navigation digital model design and integration into the D5LE2 digital environment.
${ }^{(27)}$ System Evaluation: FY2023 efforts include Integration and Test activities that focuses on building and curating the Descriptive System Model and early planning and infrastructure design for simulation-based and physical integration and testing. Plans, processes, and program integration developing engineering process documentation. Information and baseline management supporting the configuration management role for system level artifacts. Mission and System Assurance efforts as the system architecture is defined and the surety, safety, and cyber security processes are put into place.

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| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 3: Support Equipment \& Facilities |  |  |  |  | P-1 Line Item Number / Title: 1350 / Missile Industrial Facilities |  |  |  |  |  |  |  |
| 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 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 53.222 | 7.275 | 7.319 | 7.767 | 0.000 | 7.767 | 7.942 | 8.132 | 8.353 | 8.424 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 53.222 | 7.275 | 7.319 | 7.767 | 0.000 | 7.767 | 7.942 | 8.132 | 8.353 | 8.424 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 53.222 | 7.275 | 7.319 | 7.767 | 0.000 | 7.767 | 7.942 | 8.132 | 8.353 | 8.424 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Funding for Missile Industrial Facilities provides for capital maintenance projects at Navy-owned Naval Industrial Reserve Ordnance Plants (NIROPs) at Sunnyvale and Santa Cruz, California; and Bacchus, Utah; in support of the Fleet Ballistic Missile program. The Sunnyvale, California facility consists of 49 acres of land and 10 buildings. The Santa Cruz, California facility consists of 271 acres of land and 29 buildings. The Bacchus, Utah, facility consists of 583 acres, over 130 buildings and over 13 miles of roads.
Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 3: Support
Equipment \& Facilities

## P-1 Line Item Number / Title: <br> 1350 / Missile Industrial Facilities

## Equipment \& Facilities

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

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-5 | 1 / Missile Industrial Facilities |  |  |  | - / 53.222 | - 17.275 | - 17.319 | - 17.767 | - 10.000 | - 17.767 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 153.222 | - 17.275 | - 17.319 | - 17.767 | - 10.000 | - 17.767 |

*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:







 Conventional Arms, Ammunition, and Explosives directives.



 replacements, install LED lighting in one building, replace the concrete approach and vacuum pump for one building, remove an above ground tank, and improve roads and parking lots.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 1: Strategic Missiles

| 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 2021 | FY 2022 | $\text { FY } 2023$ Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | 8,719 | 122 | 70 | 40 | - | 40 | - | 26 | 58 | 58 | - | 9,093 |
| Gross/Weapon System Cost (\$ in Millions) | 14,673.058 | 224.685 | 139.983 | 160.190 | 0.000 | 160.190 | 35.339 | 83.592 | 177.017 | 169.756 | 191.688 | 15,855.308 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |
| Net Procurement (P-1) (\$ in Millions) | 14,673.058 | 224.685 | 139.983 | 160.190 | 0.000 | 160.190 | 35.339 | 83.592 | 177.017 | 169.756 | 191.688 | 15,855.308 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 14,673.058 | 224.685 | 139.983 | 160.190 | 0.000 | 160.190 | 35.339 | 83.592 | 177.017 | 169.756 | 191.688 | 15,855.308 |
| (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 Thousands) | 1,258.305 | 1,586.180 | 1,684.157 | 2,495.600 | - | 2,495.600 | - | 2,679.385 | 2,705.362 | 2,621.759 | - | 1,293.415 |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |  |

## Description:




RGM/UGM-109E Tactical Tomahawk provides an attack capability against fixed and mobile targets, and can launch from both surface ships (RGM) and submarines (UGM).

 planning and execution via Global Positioning System (GPS) onboard the launch platform and improved anti-jam GPS.

Beginning in FY 2021, TACTOM Modernization costs moved to new BLI 2301, Tomahawk Mods.
Characteristics and dimensions (approximate):
Weight (with booster and capsule) (UGM-109): 4,300 pounds
Weight (with booster and canister) (RGM-109): 4,300 pounds
Length (with booster): 20.5 feet
Wing Span: 8.6 feet
Cruise Speed: High Subsonic

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 1: Strategic Missiles

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

## P-1 Line Item Number / Title: <br> 2101 / Tomahawk

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

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Co } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1/Tomahawk | P-5a, P-21 |  | 289 | 8,719 / 14,416.286 | 122 / 224.685 | 70/139.983 | 40/160.190 | - 10.000 | 40/160.190 |
| P-3a | 1/ TACTOM Modernization (Increase Capability and Extend Missile Service Life) |  |  | 289 | - 1256.772 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 8,719 / 14,673.058 | 122 / 224.685 | 70/139.983 | 40/160.190 | - 10.000 | $40 / 160.190$ |
| Exhibits Schedule |  |  |  |  | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | $1 /$ Tomahawk | P-5a, P-21 |  | 289 | - | - 1- | - 1- | - 1- | - 1 | 1 |
| P-3a | 1 / TACTOM Modernization (Increase Capability and Extend Missile Service Life) |  |  | 289 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 1256.772 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 135.339 | 26/83.592 | $58 / 177.017$ | $58 / 169.756$ | - /191.688 | 9,093 / 15,855.308 |

*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:

 USMC (PMC 2101) and Army (RDT\&E,A PE\# 0604644A, PU MR1).


Beginning in FY 2021, TACTOM Modernization costs moved to new BLI 2301, Tomahawk Modifications.
Increase from 2022 to 2023 due to reallocation of funds - details held at a higher classification.

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Exhibit P-5, Cost Analysis: PB 2023 Navy

Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 1

## P-1 Line Item Number / Title:

 2101 / TomahawkDate: April 2022

## Item Number / Title [DODIC]:

1 / Tomahawk

ID Code (A=Service Ready, B=Not Service Ready) :
MDAP/MAIS Code: 289

| Note: Subtotals or Totals | this Exhib | - may | exact o | sum exa | due to ro |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
|  | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 2.1.1) CCLS CAPSULE RETRO KIT | - - | - | 26.300 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 2.1.2) CCLS SUBMARINE CAPSULES | 352.786 | 1,078 | 380.303 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| $\begin{aligned} & \text { 2.1.3) MK } 14 \\ & \text { CANISTERS }^{(t)(3)} \end{aligned}$ | 74.614 | 3,821 | 285.099 | 174.320 | 122 | 21.267 | 177.800 | 70 | 12.446 | 189.350 | 40 | 7.574 | - | - | 0.000 | 189.350 | 40 | 7.574 |
| $\begin{aligned} & \text { 2.1.4) } \\ & \text { OBSOLESCENCE }{ }^{(4)} \end{aligned}$ | - | - | 69.776 | - | - | 2.995 | - | - | 0.319 | - | - | 20.026 | - | - | 0.000 | - | - | 20.026 |
| 2.1.5) PRODUCTION LINE TRANSITION | - | - | 20.162 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Recurring Cost | - | - | 781.640 | - | - | 24.262 | - | - | 12.765 | - | - | 27.600 | - | - | 0.000 | - | - | 27.600 |
| Subtotal: Hardware - TOTAL HARDWARE - MISSILE OTHER COSTS Cost | - | - | 781.640 | - | - | 24.262 | - | - | 12.765 | - | - | 27.600 | - | - | 0.000 | - | - | 27.600 |
| Support - TOTAL PROCUREM | IENT SUPPO | - MISSILE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) PRODUCT IMPROVEMENT | - | - | 444.331 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 3.2) PRODUCTION ENGINEERING SUPPORT ${ }^{(5)}$ | - | - | 798.369 | - | - | 2.890 | - | - | 2.584 | - | - | 2.395 | - | - | 0.000 | - | - | 2.395 |
| 3.3) SPECIAL TOOLING \& TEST EQUIPMENT (ST \& TE) | - | - | 38.090 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 3.4) SYSTEMS ENGINEERING ${ }^{(6)}$ | - | - | 434.977 | - | - | 3.140 | - | - | 2.483 | - | - | 1.955 | - | - | 0.000 | - | - | 1.955 |
| Subtotal: Support TOTAL PROCUREMENT SUPPORT - MISSILE Cost | - | - | 1,715.767 | - | - | 6.030 | - | - | 5.067 | - | - | 4.350 | - | - | 0.000 | - | - | 4.350 |
| Support - TOTAL FLEET SUP | PORT - MISS | Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1) DOCUMENTATION | - | - | 32.257 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 4.2) SUPPORT EQUIPMENT ${ }^{(7)}$ | - | - | 258.946 | - | - | 0.879 | - | - | 4.260 | - | - | 28.416 | - | - | 0.000 | - | - | 28.416 |
| 4.3) THEATER MISSION PLANNING CENTER | - | - | 255.044 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 4.4) TRAINING EQUIPMENT | - | - | 87.953 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 5.1) EOQ | - | - | 50.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 5.2) EOQ Credit | - | - | -50.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |

Exhibit P-5, Cost Analysis: PB 2023 Navy

| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: 2101 / Tomahawk |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Tomahawk |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: 289 |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | $\underset{(\$ K)}{\text { Unit Cost }}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $\qquad$ | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost $\qquad$ | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | $\begin{array}{\|c} \text { Unit Cost } \\ (\$ K) \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | $\begin{gathered} \text { Unit Cost } \\ (\$ K) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Subtotal: Support - TOTAL FLEET SUPPORT MISSILE Cost | - - | - | 634.200 | - | - | 0.879 | - | - | 4.260 | - | - | 28.416 | - | - | 0.000 | - | - | 28.416 |
| Support - TOTAL SPARES \& | REPAIR PART | Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.1) TOMAHAWK INITIAL SPARES | - | - | 313.518 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Support - TOTAL SPARES \& REPAIR PARTS Cost | - | - | 313.518 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Gross/Weapon System Cost | 1,653.433 | 8,719 | 14,416.286 | 1,841.680 | 122 | 224.685 | 1,999.757 | 70 | 139.983 | 4,004.750 | 40 | 160.190 | - | - | 0.000 | 4,004.750 | 40 | 160.190 |

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

## Footnotes:





 greater than historical inflation rates for raw materials.
${ }^{(2)}$ Cost Element TACTICAL TOMAHAWK - CLASSIFIED - Increase from 2022 to 2023 due to reallocation of funds, there is no cost increase - details held at a higher classification.


 1:1 ratio with the quantity of TACTOM VLS procured, which was increased by 10 in the enacted FY 2022 budget.




${ }^{(5)}$ Cost Element PRODUCTION ENGINEERING SUPPORT - Production Engineering Support costs include warhead energetics, airframe engineering competencies, Production Acceptance Testing and integrated logistics support.
${ }^{(6)}$ Cost Element SYSTEMS ENGINEERING - Systems Engineering costs include warhead energetics, airframe engineering competencies, Production Acceptance Testing and integrated logistics support.
${ }^{(7)}$ Cost Element SUPPORT EQUIPMENT - FY 2023 funds the procurement of the remaining legacy Mid-Body Range Safety Subsystem (MRSS) Kits which reduces obsolescence risk. Procuring all of the kits in FY 2023 and costs $\$ 7.8$ million less than if procurements were spread over three years. The production lead time for flight test kits is 24 months and deliveries would begin in 2 nd quarter, FY 2025 supporting flight test requirements through the remainder of the FYDP. Without procurements, no flight tests will be conducted beyond 1st quarter FY 2025 impacting IOC of MST and JMEWS variants, Army Mid-Range Capability (MRC) and USMC Long Range Fires (LRF) programs and preventing Tomahawk program TEMP-mandated reliability monitoring.

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 1 |  |  |  | P-1 Line Item Number / Title: 2101 / Tomahawk |  |  |  | Item Number / Title [DODIC]: 1 / Tomahawk |  |  |  |  |
| Cost Elements | 0 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 $(\$ K)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| $\begin{aligned} & \text { 1.1.1) TACTICAL TOMAHAWK } \\ & \text { (VLS) }^{(+)} \end{aligned}$ |  | 2020 | $\begin{gathered} \text { Raytheon Missile } \\ \text { System }{ }^{(8)} \text { / Tucson AZ } \end{gathered}$ | SS/FPIF | NAVAIR | Mar 2020 | Apr 2022 | 90 | 1,822.989 | Y |  | Mar 2019 |
| 1.1.1) TACTICAL TOMAHAWK $(\mathrm{VLS})^{(+)}$ |  | 2021 | $\begin{gathered} \text { Raytheon Missile } \\ \text { System }{ }^{(8)} / \text { Tucson AZ } \end{gathered}$ | SS/FPIF | NAVAIR | Dec 2020 | Jan 2023 | 122 | 1,586.180 | Y |  | Mar 2019 |
| 1.1.1) TACTICAL TOMAHAWK $(\mathrm{VLS})^{(+)}$ |  | $2022{ }^{(9)}$ | $\begin{gathered} \text { Raytheon Missile } \\ \text { System }{ }^{(8)} \text { / Tucson AZ } \end{gathered}$ | SS/FPIF | NAVAIR | Mar 2022 | Apr 2024 | 70 | 1,684.157 | Y |  | Dec 2020 |
| 1.1.1) TACTICAL TOMAHAWK $(\mathrm{VLS})^{(\mathrm{t})}$ |  | 2023 | $\begin{gathered} \text { Raytheon Missile } \\ \text { System }{ }^{(8)} \text { / Tucson AZ } \end{gathered}$ | SS/FPIF | NAVAIR | Dec 2022 | Jan 2025 | 40 | 1,822.025 | Y |  | Dec 2020 |
| 2.1.3) MK 14 CANISTERS ${ }^{(\dagger)}$ |  | 2020 | BAE / MINNEAPOLIS, MN | C/FP | NAVSEA | Mar 2020 | May 2021 | 90 | 167.333 | Y |  | Aug 2018 |
| 2.1.3) MK 14 CANISTERS ${ }^{(\dagger)}$ |  | 2021 | BAE / MINNEAPOLIS, MN | C/FP | NAVSEA | Jan 2021 | May 2022 | 122 | 174.320 | $Y$ |  | Aug 2018 |
| 2.1.3) MK 14 CANISTERS ${ }^{(\dagger)}$ |  | 2022 | BAE / MINNEAPOLIS, MN | C/FP | NAVSEA | Jun 2022 | Oct 2023 | 70 | 177.800 | $Y$ |  |  |
| 2.1.3) MK 14 CANISTERS ${ }^{(\dagger)}$ |  | 2023 | BAE / MINNEAPOLIS, MN | C/FP | NAVSEA | Jan 2023 | May 2024 | 40 | 189.350 | Y |  |  |

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

## Footnotes:


 Gaps in production deliveries are mitigated by concurrent production on recertification line, funded in WPN-2301.
${ }^{(9)}$ FY22 / FRP 18 Contract Award was moved from December 2021 to March 2022 when Army funding was provided upon FY 2022 budget enactment, enabling contract award above MSR quantity.

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Tomahawk |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 1 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2101 / Tomahawk |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{gathered} \text { Cost Elements } \\ \text { (Units in Each) } \\ \hline \end{gathered}$ |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \hline \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{aligned} & \text { TRO } \\ & \text { TOT } \\ & \text { OT } \\ & \end{aligned}$ | $\begin{gathered} \text { BUL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | - | N O v | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br>  <br> R <br> R | M | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J L | A U G | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { v } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J U N | J u L | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 1.1.1) | TACTIC | Cal tomaha | wK (VLS) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | Years De | eliveries: 3286 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2020 | Navy | 90 | 0 | 90 |  |  |  |  |  | A - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 90 |
| 1 | 2021 | NavY | 122 | 0 | 122 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | 122 |
| 1 | 2022 | NAVY | 70 | 0 | 70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 70 |
| 1 | 2023 | Navy | 40 | 0 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 40 |
| 2.1.3) | MK 14 C | CANISTERS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | Years Dell | eliveries: 3731 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2020 | NavY | 90 | 0 | 90 |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | 7 |  | 8 | 8 | 53 |
| 2 | 2021 | NavY | 122 | 0 | 122 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | 122 |
| 2 | 2022 | NavY | 70 | 0 | 70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 70 |
| 2 | 2023 | NavY | 40 | 0 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 40 |
|  |  |  |  |  |  | O c ¢ | N O V | D E c | J A N | F | M A R | A P R | M A Y | J U | J | A | $\stackrel{\text { S }}{\text { E }}$ | O c ¢ | N O v | D E C | J A N | F | M <br>  <br> R | A P R | ¢ $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y }\end{aligned}$ | J | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Tomahawk |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 1 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2101 / Tomahawk |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |
|   <br>   | FY | SERVICE | PROC | $\begin{array}{\|c\|} \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2021 \end{array}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ \text { 1 OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | J A N | F E B | M A R | A P R | M A Y | $\begin{aligned} & \text { J } \\ & \text { U } \end{aligned}$ | J L | A U G | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J u | J | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 1.1.1) TACTICAL TOMAHAWK (VLS) ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 3286 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2020 | NavY | 90 | 0 | 90 | - | - | - | - | - | - | 14 | 19 | 19 | 19 | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | NavY | 122 | 0 | 122 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | 22 | 22 | 22 | 9 | 9 |  | 9 |  | 0 |
| 1 | 2022 | NAVY | 70 | 0 | 70 |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 70 |
| 1 | 2023 | NavY | 40 | 0 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | 40 |
| 2.1.3) MK 14 CANISTERS ${ }^{(3)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 3731 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2020 | NAVY | 90 | 37 | 53 | 8 | 7 | 8 | 7 | 8 | 8 | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2021 | NavY | 122 | 0 | 122 | - | - | - | - | - | - | - | 10 | 10 | 11 | 10 | 10 | 11 | 10 | 10 | 10 | 10 | 10 | 10 |  |  |  |  |  | 0 |
| 2 | 2022 | Navy | 70 | 0 | 70 |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 70 |
| 2 | 2023 | NavY | 40 | 0 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | 40 |
|  |  |  |  |  |  | $\stackrel{\text { O }}{\text { c }}$ | N O v | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \end{aligned}$ | J A N | F | $\begin{aligned} & \hline M \\ & \hline \\ & \hline \end{aligned}$ | A P R | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \end{aligned}$ | J | A | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{O} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline M \\ & \hline A \\ & R \end{aligned}$ | A | M A Y | J u N | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 1 |  |  |  |  | P-1 Line Item Number / Title: <br> 2101 / Tomahawk |  |  |  |  | Item Number / Title [DODIC]: 1 / Tomahawk |  |  |
| $\begin{array}{\|c} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Manufacturing } \\ \text { PLT } \end{array}$ | Total After Oct 1 |  | ALT <br> After Oct 1 | $\begin{array}{\|c\|} \hline \begin{array}{c} \text { Manufacturing } \\ \text { PLT } \end{array} \\ \hline \end{array}$ | Total After Oct 1 |
| 1 | Raytheon Missile System ${ }^{(8)}$ - Tucson AZ | 90 | 350 | 450 | 0 | 0 | 0 | 0 | 0 | 3 | 25 | 28 |
| 2 | BAE - MINNEAPOLIS, MN | 90 | 350 | 450 | 0 | 0 | 0 | 0 | 0 | 4 | 16 | 20 |

" $A$ " 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 neares 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:

${ }^{(8)}$ MSR for TACTOM Production missiles is 90 when executing concurrently with the Recertification Program. Max Rate is inclusive of quantities on the Navy WPN BLI 2101, USMC PMC BLI 2101, Navy Recertification WPN BLI 2301 and Army RDT\&E,A PE\# 0604644A. Government Furnished Property limits max capacity to 450 per year; increases to 600 per year starting in FY 2024. Max production is directly affected by the obsolescense issues addressed in footnotes (4). Gaps in production deliveries are mitigated by concurrent production on recertification line, funded in WPN-2301.

Exhibit P-3a, Individual Modification: PB 2023 Navy

| Appropriation / Budget Activity 1507N / 02 / 1 | udget Sub | b Activity | P-1 Line Item Number / Title: 2101 / Tomahawk |  |  |  |  |  | Modification Number / Title: 1 / TACTOM Modernization |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  | MDAP/MAIS Code: 289 |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | FY 2023 Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 256.772 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 256.772 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 256.772 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 256.772 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 256.772 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 256.772 |
| (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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Tactical Tomahawk (TACTOM) provides an attack capability against fixed and mobile targets, and can be launched from both surface ships (RGM) and submarines (UGM). The TACTOM Modernization profile includes Recertification and Navigation Communication Modernization upgrades (NAVCOMMs).

Funding for Tomahawk Modernization beginning in FY 2021 is now budgeted in BLI 2301.
The TACTOM service life for RGM109E and UGM109E Block IV/V Tomahawk cruise missiles is 30 years with a 15 -year deployment and recertification cycle. During the Recertification availability period, Block IV TACTOMS will undergo their 15 -year service life extension activities, and then be updated to a modernized Block V configuration with the installation of a NAVCOMM kit.

Recertification is an ACAT II program to recertify the RGM109E and UGM109E Block IV/V Tomahawk cruise missiles service life subsequent to a 15-year deployment. Inventory objective is 3992 . The yearly recertification profile will limit the missile backlog within the Fleet due to the expiration of life limiting components. The recertification contract will have six months of production lead-time prior to missile induction. Recertification activity includes the costs associated with the Raytheon labor, vendor recertification of specific components (i.e. mechanical and electrical components), recertification of the MK 45 submarine capsule, missile consumables, fuze recertification, Armed Firing Device (AFD) recertification, installation of Advanced Communication Package (ACP), shipping assets to and from weapon stations, and fuel. Recertification is planned to occur concurrently with installation of NAVCOMMs Modernization Kits, which will replace the existing Satellite Data Link Terminal (SDLT) radio and antenna.

The TACTOM NAVCOMMs upgrades consist of the Integrated Single Box Solution (ISBS) radio, two new antennas and associated cabling, a new mid-body cover, and changes to the aft-body structure and aftbody cover. The ISBS radio is replacing the existing SDLT, and two new antennas are added to replace the previous antenna. The changes to the missile are driven by the obsolescence of the SDLT hardware and the obsolescence of the UHF Demand Assigned Multiple Access (DAMA) communications infrastructure that is being phased out of service. NAVCOMM kits get installed in missiles during the Recertification availability.

Exhibit P-3a, Individual Modification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 1ID Code (A=Service Ready, B=Not Service Ready) :

## Models of Systems Affected: TACTOM

## P-1 Line Item Number / Title:

 2101 / Tomahawk
## Date: April 2022

## Modification Number / Title:

1 / TACTOM Modernization

MDAP/MAIS Code: 289

Modification Type: Increase Capability and Extend Missile Service Life

Related RDT\&E PEs: 0204229N

|  | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\left.\begin{array}{\|c\|} \hline \text { Qty (Each) } I \\ \text { Total Cost }(\$ \mathrm{M}) \end{array} \right\rvert\,$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 2: Recertification |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) Recertification Kits - NonOrganic ${ }^{(10)}$ | $117 / 48.628$ | - 1- | - 1- | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | 1 - | - 1 - | 1 - | $117 / 48.628$ |
| Subtotal: Recurring | - /48.628 | 1 - | - / - | - / - | - / - | - / - | 1 | 1 | 1 | 1 | - 10.000 | - /48.628 |
| Subtotal: Recertification | 117/48.628 | 1 | - 1 - | 1 | - / - | 1 | 1 | 1 | - 1 - | - 1 - | - 1- | 117/48.628 |
| Modification Item 2 of 2: NAVCOMMs |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.1) NAVCOMMs - NonOrganic ${ }^{(11)}$ | 273/66.098 | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | 1 | 273/66.098 |
| Subtotal: Recurring | - /66.098 | 1 - | - / - | - 1 - | - 1 - | - 1 - | - 1 - | - / - | 1 | - 1 | - 10.000 | - 166.098 |
| Subtotal: NAVCOMMs | 273/66.098 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - 1 | - 1 | - 1 - | 273/66.098 |
| Subtotal: Procurement, All Modification Items | - /114.726 | - 1. | - $/$ - | - 1 - | - 1 - | - / - | - $/$ - | - $/$ - | - $/$ - | - / - | - 10.000 | - /114.726 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) Other Production Support- NAVCOMMs Modifications | - 14.912 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | 10.000 | - 10.000 | - 10.000 | 10.000 | - 10.000 | 1 | - 14.912 |
| 3.2) Support Equipment- NAVCOMMs Modification | - 18.785 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 1- | - 18.785 |
| 3.3) Integrated Logistics Support- NAVCOMMs Modification | - 10.463 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 1- | - 10.463 |
| 3.4) Other Production Support- Recertification | - /15.482 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | 1 | - /15.482 |
| 3.5) Support Equipment- Recertification | - 152.700 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 1 | - 152.700 |
| 3.6) Integrated Logistics Support- Recertification | - 12.983 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 1 - | - 12.983 |
| 3.7) MK-45 Support- Recertification | - 18.728 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 1 | - 18.728 |
| 3.8) Recertification Line Stand-Up | - 18.088 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 1 - | - 18.088 |
| Subtotal: Support | - /102.141 | - 1- | . 1. | . 1. | - 1. | - 1- | - 1 - | - 1- | - 1- | - / - | - 10.000 | - /102.141 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 2: Recertification | - 134.729 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 134.729 |
| Modification Item 2 of 2: NAVCOMMs | - 15.176 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 15.176 |
| Subtotal: Installation | - 139.905 | - 1 - | - 1. | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1. | - 10.000 | - 139.905 |

## Total

UNCLASSIFIED


## UNCLASSIFIED



## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 1
## ID Code (A=Service Ready, B=Not Service Ready)

## Modification Item 2 of 2: NAVCOMMs

## Manufacturer Information

| Manufacturer Name: RAYTHEON Company |  |  |  | Manufacturer Location: TUCSON, AZ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 6 |  |  |  | Production Leadtime (in Months): 13 |  |  |  |
| Dates | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
| Contract Dates |  |  |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |

## Installation Information

Method of Implementation: Contractor:: Installation Name: NAVCOMMs

|  | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2023 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 29/5.176 | 178/0.000 | $66 / 0.000$ | 1 - | 1 - | 1 | 1 | 1 - | - 1 | - 1- | $0 / 0.000$ | 273/5.176 |
| FY 2021 | 1 - | 1 - | - 1 - | 1 - | 1 - | 1 | 1 - | 1 - | - 1 - | 1 | - 1 | 1 |
| FY 2022 | 1 | 1 - | - 1- | 1 - | 1 | 1 | 1 | 1 - | - 1 | 1 | 1 | - 1 - |
| FY 2023 | 1 | 1 | - 1- | 1 - | 1 | 1 | - 1 - | 1 - | - 1 | 1 | 1 | - 1 - |
| FY 2024 | 1 - | 1 - | - 1 - | - 1- | 1 - | 1 | 1 - | 1 - | - 1- | - 1 | 1 - | - 1 - |
| FY 2025 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | 1 - | 1 |
| FY 2026 | 1 - | 1 - | - 1 - | - 1 - | 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 |
| FY 2027 | 1 - | - 1 - | - 1- | - 1 - | 1 - | 1 - | 1 | 1 - | - 1- | - 1- | 1 | 1 |
| To Complete | 1 - | 1 - | - 1- | - 1- | 1 - | 1 | 1 | 1 - | - 1- | - 1- | - 1- | 1 |
| Total | 29/5.176 | 178/0.000 | $66 / 0.000$ | - 1- | 1 - | 1 | 1 - | - 1- | - 1 - | - 1 | 0/0.000 | 273/5.176 |

Installation Schedule

|  | PYS | FY 2021 |  |  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | 29 | 48 | 24 | 54 | 52 | 48 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 273 |
| Out | 5 | - | 14 | 42 | 59 | 67 | 52 | 34 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 273 |

## Footnotes:

${ }^{(10)}$ Cost Element Recertification - Beginning in FY 2021, TACTOM Modifications moved from BLI 2101 to BLI 2301.
${ }^{(11)}$ Cost Element NAVCOMMs - Beginning in FY 2021, TACTOM Modifications moved from BLI 2101 to BLI 2301

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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

| ID Code (A=Service Ready, B=Not Service Ready): $A$ |  |  | Program Elem | nts for Co | B Items: N/A |  |  | Other Relate | Program E | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 185 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | 3,087 | 122 | - | 337 | - | 337 | 282 | 267 | 76 | 73 | 217 | 4,461 |
| Gross/Weapon System Cost (\$ in Millions) | 3,126.778 | 204.251 | 0.000 | 335.900 | 0.000 | 335.900 | 285.401 | 269.078 | 85.545 | 84.685 | 227.024 | 4,618.662 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 3,126.778 | 204.251 | 0.000 | 335.900 | 0.000 | 335.900 | 285.401 | 269.078 | 85.545 | 84.685 | 227.024 | 4,618.662 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 3,126.778 | 204.251 | 0.000 | 335.900 | 0.000 | 335.900 | 285.401 | 269.078 | 85.545 | 84.685 | 227.024 | 4,618.662 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 8.617 | 6.632 | 6.848 | - | 6.848 | 5.892 | 5.989 | - | - | - | 33.978 |
| Flyaway Unit Cost (\$ in Thousands) | 953.673 | 1,659.287 | - | 990.415 | - | 990.415 | 1,004.369 | 999.513 | 1,096.013 | 1,128.699 | 1,044.346 | 991.394 |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |  |

## Description:

The Advanced Medium Range Air-to-Air Missile (AMRAAM) is a joint Air Force/Navy, Acquisition Category 1C program with Air Force as lead service. AMRAAM is the premier all- weather, all-environment, radar guided missile with improved capabilities against very low and high-altitude targets in an electronic attack environment. The current AMRAAM AIM-120D variant delivers improved performance via Global Positioning System (GPS) aided navigation; two way datalink capability for enhanced aircrew survivability and improved network compatibility; and incorporates new guidance software that improves kinematic performance and weapon effectiveness.

Differences in Navy and Air Force All Up Round Unit Cost is the result of the variations in procurement of missile types by each service.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

| 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: 185 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1/ AMRAAM | P-5a, P-21 |  |  | 3,087 / 3,126.778 | 122 / 204.251 | - 10.000 | 337 / 335.900 | - 10.000 | $337 / 335.900$ |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 3,087 / 3,126.778 | 122 / 204.251 | - 10.000 | 337 / 335.900 | - 10.000 | 337 / 335.900 |

*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:

FY2023 funding procures 337 AMRAAM missiles in support of warfighter requirements

 preserve future production capabilities and capacities.

 Additionally, RMD has demonstrated improved forecast and backlog task completion while maintaining a six month schedule margin to meet the Joint Schedule Risk Assessment Full Configuration Audit date of Jan 2023. Although DoN has no FY 2022 funding to procure missiles on FY 2022 Lot 36 , the production capacity is being fuffilled by USAF, DoN (FY2021 funding), and FMS allied partners resulting in a procurement quantity forecast in excess of 650 missiles. In summary, the program is confident in RMD's ability to produce the FY 2023 budgeted quantity of 337 missiles.
 ACQUISITION.

| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title <br> 1507N / 02 / 2 | 2206 / AMRAAM |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |

Date: April 2022
Item Number / Title [DODIC]:
1/ AMRAAM

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

| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 3,087 | 122 | - | 337 | - | 337 |
| Gross/Weapon System Cost (\$ in Millions) | 3,126.778 | 204.251 | 0.000 | 335.900 | 0.000 | 335.900 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 3,126.778 | 204.251 | 0.000 | 335.900 | 0.000 | 335.900 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 3,126.778 | 204.251 | 0.000 | 335.900 | 0.000 | 335.900 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 8.617 | 6.632 | 6.848 | - | 6.848 |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 1,012.886 | 1,674.189 | - | 996.736 | - | 996.736 |

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

| Cost Elements | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost $(\$ K)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |
| Flyaway - MISSILE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| 1.1.1) AIM-120 <br> MISSILE - ALL-UP- <br> ROUND (AUR) ${ }^{(\dagger)(1)}$ | 668.510 | 2,626 | 1,755.507 | 1,108.350 | 99 | 109.727 | - | - | - | 926.136 | 337 | 312.108 | - | - | - | 926.136 | 337 | 312.108 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1.2) AIM-120 MISSILE - CAPTIVE AIR TRAINING MISSILE (CATM) ${ }^{(\dagger)}$ | 591.670 | 461 | 272.760 | 439.838 | 23 | 10.116 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.1.3) WARRANTY | - | - | 36.120 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.1.4) DIMINISHING MANUFACTURING SOURCES (DMS) ${ }^{(2)}$ | - | - | 272.006 | - | - | 72.974 | - | - | - | - | - | 12.927 | - | - | - | - | - | 12.927 |
| 1.1.5) TOOLING AND TEST EQUIPMENT | - | - | 58.377 | - | - | 1.633 | - | - | - | - | - | 1.710 | - | - | - | - | - | 1.710 |
| 1.1.6) ENGINEERING CHANGE ORDERS (ECO) ${ }^{(3)}$ | - | - | 35.423 | - | - | 0.596 | - | - | - | - | - | 1.587 | - | - | - | - | - | 1.587 |
| Subtotal: Recurring Cost | - | - | 2,430.193 | - | - | 195.046 | - | - | - | - | - | 328.332 | - | - | - | - | - | 328.332 |
| Subtotal: Flyaway - MISSILE Cost | - | - | 2,430.193 | - | - | 195.046 | - | - | - | - | - | 328.332 | - | - | - | - | - | 328.332 | Non Recurring Cost


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / AMRAAM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 2206 / AMRAAM |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | $\begin{gathered} \text { Unit Cost } \\ (\$ K) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 2.1.1) SPECIAL TOOLING AND TEST EQUIPMENT | - | - | 93.514 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.1.2) CONTAINERS (4) | - | - | 7.204 | - | - | - | - | - | - | - | - | 2.000 | - | - | - | - | - | 2.000 |
| Subtotal: Non Recurring Cost | - | - | 100.718 | - | - | - | - | - | - | - | - | 2.000 | - | - | - | - | - | 2.000 |
| Subtotal: Flyaway NONRECURRING and ANCILLARY EQUIPMENT Cost | - | - | 100.718 | - | - | - | - | - | - | - | - | 2.000 | - | - | - | - | - | 2.000 |
| Flyaway - PRODUCTION SUPPORT Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1.1) TEST SUPPORT | - | - | 136.578 | - | - | 2.762 | - | - | - | - | - | 1.278 | - | - | - | - | - | 1.278 |
| 3.1.2) TECHNICAL SUPPORT | - | - | 276.501 | - | - | 4.625 | - | - | - | - | - | 2.160 | - | - | - | - | - | 2.160 |
| Subtotal: Recurring Cost | - | - | 413.079 | - | - | 7.387 | - | - | - | - | - | 3.438 | - | - | - | - | - | 3.438 |
| Subtotal: Flyaway PRODUCTION SUPPORT Cost | - | - | 413.079 | . | . | 7.387 | - | - | - | - | - | 3.438 | - | - | - | - | - | 3.438 |
| Support - SUPPORT COST - FLEET Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1) PECULIAR SUPPORT EQUIPMENT | - | - | 60.880 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.2) TRAINING EQUIPMENT ${ }^{(5)}$ | - | - | 39.569 | - | - | 0.823 | - | - | - | - | - | 1.765 | - | - | - | - | - | 1.765 |
| 4.3) INTEGRATED LOGISTICS SUPPORT (ILS) | - | - | 82.339 | - | - | 0.995 | - | - | - | - | - | 0.365 | - | - | - | - | - | 0.365 |
| Subtotal: Support - <br> SUPPORT COST - FLEET <br> Cost | - | - | 182.788 | - | - | 1.818 | - | - | - | - | - | 2.130 | - | - | - | - | - | 2.130 |
| Gross/Weapon System Cost | 1,012.886 | 3,087 | 3,126.778 | 1,674.189 | 122 | 204.251 | - | - | 0.000 | 996.736 | 337 | 335.900 | - | - | 0.000 | 996.736 | 337 | 335.900 |

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

## Footnotes:

${ }^{(1)}$ Unit cost calculations are based on combined procurement of Air Force, Navy and Foreign Military Sales (FMS) buys for each fiscal year. Unit cost is quantity dependent and changes in total quantity directly impact unit price for Air Force, Navy, and FMS.

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 | P-1 Line Item Number / Title 2206 / AMRAAM | Item Number / Title [DODIC]: 1 / AMRAAM |
| ID Code (A=Service Ready, B=Not Service Ready) : |  | MDAP/MAIS Code: |
| ${ }^{(2)}$ DMS funding is used to resolve production Diminishing Manufacturing Sources and Material Shortages ,obsolescence issues, studies, bridge buys, life of type buys, supplier/parts replacement and qualification activities to preserve future production capabilities and capacities. DMS funding in FY2023 includes procurement of the Application Specific Integrated Circuit (ASIC) chip. <br> ${ }^{(3)}$ Engineering Change Orders cost element provides funding to test and qualify class I engineering change proposals by the prime vendor into missile production. Fluctuations correspond directly with total cost of hardware procured. <br> ${ }^{(4)}$ Containers are required to maintain pace with quantities, ensure in-container reprogramming capability is maintained. <br> ${ }^{(5)}$ Training Equipment request includes funding for the AMRAAM Telemetry System (ATS) to replenish the stock of ATS kits the warfighter expends during AMRAAM live-fire missile training exercises and is based upon the projected number of ATS missile shots planned each year. The ATS enables the warfighter to measure the effectiveness of missile improvements while also becoming more proficient on the missile employment and tactics necessary to fully utilize missile capabilities. |  |  |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / AMRAAM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  | P-1 Line Item Number / Title: 2206 / AMRAAM |  |  |  |  |  |  |  |  |
| 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 | $\underset{(\text { Each }}{\text { Qty }}$ | Unit Cost $(\$ K)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) AIM-120 MISSILE - ALL-UPROUND (AUR) ${ }^{(\dagger)}$ |  | 2019 | $\begin{gathered} \text { Raytheon Missile } \\ \text { System }{ }^{(6)} \text { / Tucson, AZ } \end{gathered}$ | SS/FPIF | EGLIN AFB, FL | Dec 2019 | Jul 2021 | 113 | 1,065.500 | Y |  | Nov 2017 |
| 1.1.1) AIM-120 MISSILE - ALL-UPROUND (AUR) ${ }^{(\dagger)}$ | $\checkmark$ | 2019 | Raytheon Missile System ${ }^{(6)}$ / Tucson, AZ | SS/FPIF | EGLIN AFB, FL | Dec 2019 | Jul 2021 | 1 | 1,065.500 | Y |  | Nov 2017 |
| 1.1.1) AIM-120 MISSILE - ALL-UPROUND (AUR) ${ }^{(\dagger)}$ |  | $2020{ }^{(7)}$ | $\begin{gathered} \text { Raytheon Missile } \\ \text { System }{ }^{(6)} \text { / Tucson, AZ } \end{gathered}$ | SS/FPIF | EGLIN AFB, FL | Mar 2021 | Jan 2023 | 111 | 1,151.355 | Y |  | Sep 2018 |
| 1.1.1) AIM-120 MISSILE - ALL-UPROUND (AUR) ${ }^{(\dagger)}$ |  | $2021{ }^{(8)}$ | Raytheon Missile System ${ }^{(6)}$ / Tucson, AZ | SS/FPIF | EGLIN AFB, FL | Jul 2022 | Jul 2024 | 99 | 1,108.350 | Y |  | Sep 2018 |
| 1.1.1) AIM-120 MISSILE - ALL-UPROUND (AUR) ${ }^{(\dagger)}$ |  | 2023 | $\begin{aligned} & \text { Raytheon Missile } \\ & \text { System }{ }^{(6)} \text { / Tucson, AZ } \end{aligned}$ | SS/FPIF | EGLIN AFB, FL | Apr 2023 | Apr 2025 | 337 | 926.136 | Y |  | Sep 2021 |
| 1.1.2) AIM-120 MISSILE CAPTIVE AIR TRAINING MISSILE (CATM) ${ }^{(+)}$ |  | 2019 | Raytheon Missile System / Tucson AZ | SS/FPIF | EGLIN AFB, FL | Dec 2019 | Jan 2022 | 51 | 529.392 | Y |  | Nov 2017 |
| 1.1.2) AIM-120 MISSILE CAPTIVE AIR TRAINING MISSILE (CATM) ${ }^{(+)}$ |  | $2020{ }^{(9)}$ | Raytheon Missile System / Tucson AZ | SS/FPIF | EGLIN AFB, FL | Mar 2021 | Jul 2022 | 76 | 486.306 | Y |  | Sep 2018 |
| 1.1.2) AIM-120 MISSILE CAPTIVE AIR TRAINING MISSILE (CATM) ${ }^{(+)}$ |  | $2021{ }^{(10)}$ | Raytheon Missile System / Tucson AZ | SS/FPIF | EGLIN AFB, FL | Aug 2021 | Oct 2023 | 23 | 439.838 | Y |  | Sep 2018 |

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

## Footnotes:



 Procurement Leadtime data is based on contract data for the budget year.
 Department of the Navy approved execution carryover plan.
${ }^{(8)}$ FY 2021 AUR funding: Ninety-nine AURs will be procured on the FY 2022 Lot 36 production contract scheduled to award in Jul 2022 per the Department of the Navy approved execution carryover plan.
 approved execution carryover plan.
${ }^{(10)}$ FY 2021 CATM funding: Twenty-three CATMs were procured on a contract awarded in Aug 2021 per the Department of the Navy approved execution carryover plan.

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 2206 / AMRAAM |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / AMRAAM |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Manufacturing } \\ \text { PLT } \end{array}$ | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \hline \text { Manufacturing } \\ \text { PLT } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ |
| 1 | Raytheon Missile System ${ }^{(6)}$ Tucson, AZ | 400 | 400 | 1,200 | 6 | 3 | 21 | 24 | 18 | 7 | 24 | 31 |
| 2 | Raytheon Missile System Tucson AZ | 400 | 400 | 1,200 | 6 | 3 | 21 | 24 | 37 | 10 | 24 | 34 |

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

## Footnotes:

${ }^{(6)}$ AIM-120 MSR is 400 missiles per year, consisting of USN, USAF, and approved FMS procurement with no less than 100 of a particular variant. FY 2023 max factory capacity enables production of 1,200 missiles per year. Due to Service specific guidance, differences exist between USAF and DoN Initial and Reorder Procurement Leadtimes within each Service's budget exhibits. Within the USAF (lead service) P-21 exhibit, the Initial Procurement Leadtime data is based specific guidance, differences exist between
on contract data for the budget year, while the Reorder Procurement Leadtime data is left blank. Within this DoN P-21 exhibit, Initial Procurement Leadtime data is based on first DoN missile procurement in FY 1989, while the Reorder Procurement Leadtime data is based on contract data for the budget year.
${ }^{(11)}$ FY 2020 AUR funding: Thirty-nine AURs were procured on the FY 2020 Lot 34 production contract awarded in Mar 2021 with delivery scheduled for Jan and Apr 2023. Seventy-two AURs were procured on the FY 2021 Lot 35 production contract awarded in Jul 2021 with a scheduled delivery from Jul 2023 to Apr 2024 per the Department of the Navy approved execution carryover plan.
${ }^{(12)}$ FY 2021 AUR funding: Ninety-nine AURs will be procured on the FY 2022 Lot 36 production contract scheduled to award in Jul 2022 with a scheduled delivery from Jul 2024 to Apr 2025 per the Department of the Navy approved execution carryover plan.
${ }^{(13)}$ FY 2020 CATM funding: Forty-nine CATMs were procured on the FY 2020 Lot 34 production contract awarded in Mar 2021 with a scheduled delivery of Jul 2022 and Oct 2022 . Twenty-seven CATMs were procured on a contract awarded in Aug 2021 with a scheduled delivery of Jul 2023 and Oct 2023 per the Department of the Navy approved execution carryover plan.
${ }^{(14)}$ FY 2021 CATM funding: Twenty-three CATMs were procured on a contract awarded in Aug 2021 with a scheduled delivery of Oct 2023 to Apr 2024 per the Department of the Navy approved execution carryover plan.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

## P-1 Line Item Number / Title: <br> 2209 / Sidewinder

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: 0204162N, 0204138M |  |  |  |  | Other Related Program Elements: 0207161N, 0207161F, 0604319A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 000 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | FY 2023 Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | 3,222 | 240 | 152 | 128 | - | 128 | 165 | 180 | 232 | 205 | 2,091 | 6,615 |
| Gross/Weapon System Cost (\$ in Millions) | 1,206.244 | 104.502 | 78.606 | 63.288 | 0.000 | 63.288 | 79.930 | 87.960 | 110.521 | 111.778 | 1,218.280 | 3,061.109 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,206.244 | 104.502 | 78.606 | 63.288 | 0.000 | 63.288 | 79.930 | 87.960 | 110.521 | 111.778 | 1,218.280 | 3,061.109 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,206.244 | 104.502 | 78.606 | 63.288 | 0.000 | 63.288 | 79.930 | 87.960 | 110.521 | 111.778 | 1,218.280 | 3,061.109 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 1.785 | 2.027 | 1.168 | - | 1.168 | 1.079 | 1.657 | 1.878 | 2.100 | Continuing | Continuing |
| Flyaway Unit Cost (\$ in Dollars) | 342,353.82 | 377,062.50 | 389,157.89 | 349,773.44 | - | 349,773.44 | 375,860.61 | 394,350.00 | 404,556.03 | 428,175.61 | 500,550.45 | 401,929.86 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 Visual Range (WVR), even when IR countermeasures are employed.



 Block II approval on December 23, 2011. In August 2015, the program received approval for Full Rate Production (FRP), and the APB was re-established.


 Lot 21.

 addition to 5,326 Block II missiles, for a total of 6,615 missiles.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

## P-1 Line Item Number / Title: <br> 2209 / Sidewinder

| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: 0204162N, 0204138M |  |  |  |  |  | Other Related Program Elements: 0207161N, 0207161F, 0604319A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 000 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1 / SIDEWINDER BLOCK II | P-5a, P-21 |  |  | 3,222 / 1,206.244 | 225/104.502 | 152 / 71.242 | $128 / 55.537$ | - 10.000 | $128 / 55.537$ |
| P-3a | 1 I Inertial Measurement Unit (IMU) Obsolescence upgrade (Reliability) |  |  |  | - 10.000 | - 10.000 | - 17.364 | - 17.751 | - 10.000 | - 17.751 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 3,222 / 1,206.244 | 240 / 104.502 | 152 / 78.606 | 128 / 63.288 | - 10.000 | 128 / 63.288 |
| Exhibits Schedule |  |  |  |  | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1 / SIDEWINDER BLOCK II | P-5a, P-21 |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 |
| P-3a | 1 / Inertial Measurement Unit (IMU) Obsolescence upgrade (Reliability) |  |  |  | - 16.906 | - 16.124 | - $/ 5.318$ | - / 12.633 | - 173.009 | - / 119.105 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 165 / 79.930 | 180 / 87.960 | 232 / 110.521 | 205/111.778 | 2,091/1,218.280 | 6,615/3,061.109 |

*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:

 continues procurement of upgraded Inertial Measurement Unit (IMU) Guidance Units (GUs).
 Air Training Missiles (CATMs).
 Section 2308 BUY-TO-BUDGET ACQUISITION.
 reflect the correct quantity of 2106 , so the total program quantity is correct.

Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 2
## P-1 Line Item Number / Title: 2209 / Sidewinder

Date: April 2022
Item Number / Title [DODIC]:
1 / SIDEWINDER BLOCK II

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

| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2021 |  | FY 2022 |  | FY 2023 Base |  |  | FY 2023 OCO |  | FY 2023 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | 3,222 |  | 225 |  | 152 |  |  | 128 | - |  | 128 |  |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  | 1,206.244 |  |  | 104.502 | 71.242 |  | 55.537 |  |  |  | 0.000 | 55.537 |  |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - | - |  | - |  |  | - |  |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  | 1,206.244 |  |  | 104.502 | 71.242 |  | 55.537 |  |  | 0.000 |  | 55.537 |  |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - | - |  | - |  |  | - |  | - |  |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  | 1,206.244 |  |  | 104.502 | 71.242 |  | 55.537 |  |  | 0.000 |  | 55.537 |  |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  | - |  |  | - | - |  | - |  |  | - |  | - |  |
| Gross/Weapon System Unit Cost (\$ in Dollars) |  |  |  |  |  | 374,377.41 |  | 464,453.33 |  | 468,697.37 |  | 433,882.81 |  |  | 433,882.81 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Flyaway - MISSILE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) All Up Round Block II ${ }^{(\dagger)}{ }^{(1)}$ | 391,968.00 | 1,375 | 538.956 | 376,958.53 | 217 | -81.800 | 409,956.99 | 93 | 38.126 | 412,861.11 | 72 | 29.726 | - | - | 0.000 | 412,861.11 | 72 | 29.726 |
| 1.1.2) Captive Air Training Missile Block ॥ $\\|^{(\dagger)}{ }^{(2)}$ | 213,204.17 | 480 | 102.338 | - | - | 0.000 | 242,882.35 | 51 | 12.387 | 200,791.67 | 48 | 9.638 | - |  | 0.000 | 200,791.67 | 48 | 9.638 |
| 1.1.3) All Up Round Block II Plus ${ }^{(\dagger)(3)}$ | 460,320.51 | 78 | 35.905 | 423,625.00 | 8 | $8 \quad 3.389$ | 455,375.00 | 8 | 3.643 | 460,000.00 | 8 | 3.680 | - |  | 0.000 | 460,000.00 | 8 | 3.680 |
| 1.1.4) Engineering Change Orders - Block II ${ }^{(4)}$ | - | - | 3.138 | - | - | 0.000 | - | - | 0.000 | - | - | 1.093 | - |  | 0.000 | - | - | 1.093 |
| 1.1.5) Diminishing Manufacturing Sources (DMS) ${ }^{(5)}$ | - | - | 6.232 | - | - | 0.000 | - | - | 1.135 | - | - | 0.241 | - |  | 0.000 | - | - | 0.241 |
| 1.1.6) Government Cost (GFE \& Testing) - Block II | - | - | 0.613 | - | - | 0.103 | - | - | 0.098 | - | - | 0.018 | - |  | 0.000 | - | - | 0.018 |
| Subtotal: Recurring Cost | - | - | 687.182 | - | - | 85.292 | - | - | 55.389 | - | - | 44.396 | - |  | - 0.000 | - | - | 44.396 |
| Subtotal: Flyaway - MISSILE Cost | - | - | 687.182 | - | - | 85.292 | - | - | 55.389 | - | - | 44.396 | - |  | 0.000 | - | - | 44.396 |

Flyaway - Prior Year Sidewinder Block 1 Cost
Recurring Cost


Exhibit P-5, Cost Analysis: PB 2023 Navy

Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2

## P-1 Line Item Number / Title:

 2209 / SidewinderDate: April 2022
Item Number / Title [DODIC]:
1 / SIDEWINDER BLOCK II

ID Code (A=Service Ready, B=Not Service Ready) :
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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Subtotal: Recurring Cost | - | - | 364.058 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Flyaway - Prior Year Sidewinder Block 1 Cost | - | - | 364.058 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |

Flyaway - Nonrecurring and Ancillary Equip Cost

| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3.1.1) Special Tool \& Test Equip (ST/STE) Block II ${ }^{(6)}$ | - | - | 16.642 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 3.1.2) Missile Containers - Block II (7) | 12,941.67 | 480 | 6.212 | 12,971.83 | 71 | 0.921 | 13,060.61 | 33 | 0.431 | 12,096.77 | 31 | 0.375 | - | - | 0.000 | 12,096.77 | 31 | 0.375 |
| 3.1.3) Nonrecurring Engineering - Block II | - | - | 28.970 | - | - | 4.282 | - | - | 3.332 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Non Recurring Cost | - | - | 51.824 | - | - | 5.203 | - | - | 3.763 | - | - | 0.375 | - | - | 0.000 | - | - | 0.375 |
| Subtotal: Flyaway - <br> Nonrecurring and Ancillary Equip Cost | - | - | 51.824 | - | - | 5.203 | - | - | 3.763 | - | - | 0.375 | - | - | 0.000 | - | - | 0.375 |
| Support - Production Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1) Production Technical Support - Block II ${ }^{(8)}$ | - | - | 21.711 | - | - | 2.766 | - | - | 2.120 | - | - | 3.210 | - | - | 0.000 | - | - | 3.210 |
| Subtotal: Support Production Support Cost | - | - | 21.711 | - | - | 2.766 | - | - | 2.120 | - | - | 3.210 | - | - | 0.000 | - | - | 3.210 |
| Support - Support Costs Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.1) Peculiar Support <br> Equipment - Block II ${ }^{(9)}$ | - | - | 0.670 | - | - | 0.000 | - | - | 0.000 | - | - | 0.040 | - | - | 0.000 | - | - | 0.040 |
| 5.2) Training Support Block II ${ }^{(10)}$ | - | - | 0.247 | - | - | 0.047 | - | - | 0.101 | - | - | 0.042 | - | - | 0.000 | - | - | 0.042 |
| 5.3) Training Equipment Block II ${ }^{(11)}$ | - | - | 14.445 | - | - | 1.690 | - | - | 1.432 | - | - | 1.461 | - | - | 0.000 | - | - | 1.461 |
| 5.4) Contract Support Block II ${ }^{(12)}$ | - | - | 9.317 | - | - | 0.381 | - | - | 0.506 | - | - | 1.419 | - | - | 0.000 | - | - | 1.419 |
| 5.5) Government InHouse Support - Block II (13) | - | - | 56.790 | - | - | 9.123 | - | - | 7.931 | - | - | 4.594 | - | - | 0.000 | - | - | 4.594 |
| Subtotal: Support - Support Costs Cost | - | - | 81.469 | - | - | 11.241 | - | - | 9.970 | - | - | 7.556 | - | - | 0.000 | - | - | 7.556 |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 2209 / Sidewinder |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 1 I SIDEWINDER BLOCK II |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Gross/Weapon System Cost | 374,377.41 | 3,222 | 1,206.244 | 464,453.33 | 225 | 104.502 | 468,697.37 | 152 | 71.242 | 433,882.81 | 128 | 55.537 | - | . | 0.000 | 433,882.81 | 128 | 55.537 |

## Remarks:

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

## Footnotes:

${ }^{(1)}$ AUR Block II - (A) This budget exhibit represents only the US Navy portion of the total program procurement. This exhibit reflects a Navy unit cost that is congruent with the Air Force unit cost. Unit cost changes are heavily driven by total program quantity changes from year to year. The majority of parts are common between All Up Round (AUR) Block IIs, CATMs, and AUR Block II Plus. As a result, the overall quantities procured (between AUR Block II, AUR Block II Plus and CATMs) to include all customers (Navy, Air Force, and Foreign Military Sales) drive the unit cost. The unit cost increased from FY 2022 to FY 2023 due to lower quantity of missiles procured in FY 2023. (B) The cost estimate was updated beginning in FY 2021 to align with contracted unit price. As a result, in FY 2021 and out, costs that were previously reflected under the DMS (1.1.5) and Special Tooling and Test Equipment (ST/STE) (3.1.1) cost elements are now included in the missile unit costs reflected in AUR BIk II (1.1.1), CATMs (1.1.2), and AUR BIk II Plus (1.1.3). (C) DMS increases within the AUR unit cost from FY2022 to FY2023 due to the procurement of the Application-Specific Integrated Circuit (ASIC) chip, which is the new hardware SIP III processor The additional FY2023 DMSMS funding within the unit cost covers the obsolete ASICs for only the Lot 23 ( $F$ F2023) production. The program is required to procure the FY2023 requirement because the DoD LOTB will not occur in time for FY2023/Lot 23 production. The DoD's life-of-type buy will cover the remaining years of production. The chips have a yield rate of $10 \%$, which contributes to the increase in FY2023 requirement.
${ }^{(2)}$ CATMs - This budget exhibit represents only the US Navy portion of the total program procurement. This exhibit reflects a Navy unit cost that is congruent with the Air Force unit cost. Unit cost changes are heavily driven by total program quantity changes from year to year. The majority of parts are common between All Up Round (AUR) Block IIs, CATMs, and AUR Block II Plus. As a result, the overall quantities procured (between AUR Block II, AUR Block II Plus and CATMs) to include all customers (Navy, Air Force, and Foreign Military Sales) drive the unit cost. The unit cost decreased from FY 2022 to FY 2023 due to total program quantity increase in CATMs for all customers (Navy, Air Force, and Foreign Military Sales) from 138 in FY2022 to 148 in FY2023.
${ }^{(3)}$ AUR Block II Plus - See Footnote (1)
${ }^{(4)}$ The Engineering Change Orders line provides funding to test and qualify engineering changes into missile production. The increase in FY 2023 is due to engineering changes associated with the System Improvement Program (SIP) III cut-in.
${ }^{(5)}$ DMS provides funding to procure Life of Type Buys (LOTBs), as well as design, develop, test and qualify form/fit/function replacement components to the production missile as a result of changes in subvendor manufacturers. The cost estimate was updated beginning in FY 2021 to align with contracted unit price. As a result, in FY 2021 and out, contractor DMS costs that were previously reflected under DMS (1.1.5) are now included in the missile unit costs. DMS requirements funded by the program directly (not included in the missile cost) continue to be reflected in this DMS cost element.
${ }^{(6)}$ The cost estimate was updated beginning in FY 2021 to align with contracted unit price. As a result, in FY 2021 and out, costs previously reflected under the ST/STE cost element are now included in the missile unit costs.
${ }^{(7)}$ Containers are procured to ship missiles and are budgeted 1 container for every 4.1 missiles of each configuration, for each service separately (USN and USMC). Quantities are rounded up by $10 \%$ to ensure sufficient availability of containers for shipping.
${ }^{(8)}$ The production tech support line includes funding to manage technical documentation, training development and delivery, production support, and management of government owned property, to support production of AIM-9X configurations. Funding increases from FY 2022 to FY 2023 due to increasing support requirements between lots.
${ }^{(9)}$ The Peculiar Support Equipment line provides for calibration and procurement of government furnished gauges and equipment used to support missile production.

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 | P-1 Line Item Number / Title: 2209 / Sidewinder | Item Number / Title [DODIC]: 1 / SIDEWINDER BLOCK II |
| ID Code (A=Service Ready, B=Not Service Ready) : |  | MDAP/MAIS Code: |
| ${ }^{(10)}$ The training support line provides technical publications and training ${ }^{(11)}$ Training Equipment request includes funding for AIM-9X telemetry warfighter to fully measure the effectiveness of weapon improvements w requirement is based upon the projected number of TM shots planned e ${ }^{(12)}$ Contract support funding provided for program office support and $S$ in contractor support requirements. <br> ${ }^{(13)}$ The government in-house support line provides US Government Sy compliance with joint service developed cost, schedule and performance | als to fleet maintainers. <br> s to replenish the stock of TM kits the w so becoming more proficient on the tactics ar. Training equipment increases from mprovement Program III development e <br> Engineering and Project Management sups rements. FY 2023 Government In House | missile training exercises. The TM kit enables the the capabilities of the AIM-9X Block II missile. The <br> rom FY 2022 to FY 2023 due to increased demand <br> he production of the AIM-9X missile to ensure 09 (BIk II) and FRP 07 (BIk II+) support activities. |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / SIDEWINDER BLOCK II |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  | P-1 Line Item Number / Title: 2209 / Sidewinder |  |  |  |  |  |  |  |  |
| 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 | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost <br> (8) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) All Up Round - Block II ${ }^{(+)}$ |  | 2018 | $\begin{gathered} \text { Raytheon Missile } \\ \text { Systems }{ }^{(14)} \text { / Tucson, AZ } \end{gathered}$ | C/FPIF | NAVAIR | Dec 2018 | Sep 2020 | 141 | 362,420.77 | Y |  | Mar 2017 |
| 1.1.1) All Up Round - Block II ${ }^{(+)}$ |  | 2019 | Raytheon Missile Systems ${ }^{(14)}$ / Tucson, AZ | C/FPIF | NAVAIR | Apr 2019 | Sep 2021 | 235 | 381,000.00 | Y |  | Jan 2018 |
| 1.1.1) All Up Round - Block II ${ }^{(+)}$ | $\checkmark$ | 2019 | $\begin{gathered} \text { Raytheon Missile } \\ \text { Systems }{ }^{(14)} \text { / Tucson, AZ } \end{gathered}$ | C/FPIF | NAVAIR | Apr 2019 | Sep 2021 | 1 | 381,069.74 | Y |  | Jan 2018 |
| 1.1.1) All Up Round - Block II ${ }^{(+)}$ |  | 2020 | Raytheon Missile Systems ${ }^{(14)}$ / Tucson, AZ | C/FPIF | NAVAIR | Mar 2020 | Aug 2022 | 227 | 371,117.00 | Y |  | Jan 2019 |
| 1.1.1) All Up Round - Block II ${ }^{(+)}$ | $\checkmark$ | 2020 | $\begin{gathered} \text { Raytheon Missile } \\ \text { Systems }{ }^{(14)} \text { / Tucson, AZ } \end{gathered}$ | C/FPIF | NAVAIR | Mar 2020 | Aug 2022 | 92 | 371,117.00 | Y |  | Jan 2019 |
| 1.1.1) All Up Round - Block II ${ }^{(+)}$ |  | 2021 | Raytheon Missile Systems ${ }^{(14)}$ / Tucson, AZ | C/FPIF | NAVAIR | Jun 2021 | Aug 2023 | 217 | 376,958.53 | Y |  | Jan 2020 |
| 1.1.1) All Up Round - Block II ${ }^{(+)}$ |  | 2022 | Raytheon Missile Systems ${ }^{(14)}$ / Tucson, AZ | C/FPIF | NAVAIR | Mar 2022 | Aug 2024 | 93 | 409,956.99 | Y |  | Jan 2021 |
| 1.1.1) All Up Round - Block II ${ }^{(+)}$ |  | 2023 | $\begin{gathered} \text { Raytheon Missile } \\ \text { Systems }{ }^{(14)} \text { / Tucson, AZ } \end{gathered}$ | C/FPIF | NAVAIR | Mar 2023 | Aug 2025 | 72 | 412,861.11 | Y |  | Jan 2022 |
| 1.1.2) Captive Air Training Missile Block II ${ }^{(+)}$ |  | 2018 | Raytheon Missile System ${ }^{(15)}$ / Tucson, AZ | C/FPIF | NAVAIR | Dec 2018 | Sep 2020 | 41 | 196,195.12 | Y |  | Mar 2017 |
| 1.1.2) Captive Air Training Missile Block II ${ }^{(+)}$ |  | 2019 | Raytheon Missile System ${ }^{(15)}$ / Tucson, AZ | C/FPIF | NAVAIR | Apr 2019 | Sep 2021 | 75 | 209,333.33 | Y |  | Jan 2018 |
| 1.1.2) Captive Air Training Missile Block II ${ }^{(\dagger)}$ |  | 2020 | $\begin{gathered} \text { Raytheon Missile } \\ \text { System }{ }^{(15)} \text { / Tucson, AZ } \end{gathered}$ | C/FPIF | NAVAIR | Mar 2020 | Aug 2022 | 75 | 202,066.67 | Y |  | Jan 2019 |
| 1.1.2) Captive Air Training Missile Block II ${ }^{(\dagger)}$ |  | 2022 | Raytheon Missile System ${ }^{(15)}$ / Tucson, AZ | C/FPIF | NAVAIR | Mar 2022 | Aug 2024 | 51 | 242,882.35 | Y |  | Jan 2021 |
| 1.1.2) Captive Air Training Missile Block II ${ }^{(\dagger)}$ |  | 2023 | $\begin{gathered} \text { Raytheon Missile } \\ \text { System }{ }^{(15)} \text { / Tucson, AZ } \end{gathered}$ | C/FPIF | NAVAIR | Mar 2023 | Aug 2025 | 48 | 200,791.67 | Y |  | Jan 2022 |
| 1.1.3) All Up Round - Block II $\text { Plus }^{(\dagger)}$ |  | 2018 | $\begin{gathered} \text { Raytheon Missile } \\ \text { System }{ }^{(16)} \text { / Tucson, AZ } \end{gathered}$ | C/FPIF | NAVAIR | Dec 2018 | Sep 2020 | 12 | 416,333.33 | Y |  | Mar 2017 |
| 1.1.3) All Up Round - Block II Plus ${ }^{(\dagger)}$ |  | 2019 | Raytheon Missile System ${ }^{(16)}$ / Tucson, AZ | C/FPIF | NAVAIR | Apr 2019 | Sep 2021 | 8 | 399,500.00 | Y |  | Jan 2018 |
| 1.1.3) All Up Round - Block II Plus ${ }^{(+)}$ |  | 2020 | $\begin{gathered} \text { Raytheon Missile } \\ \text { System }{ }^{(16)} \text { / Tucson, AZ } \end{gathered}$ | C/FPIF | NAVAIR | Mar 2020 | Aug 2022 | 8 | 494,375.00 | Y |  | Jan 2019 |
| 1.1.3) All Up Round - Block II Plus ${ }^{(\dagger)}$ |  | 2021 | $\begin{gathered} \text { Raytheon Missile } \\ \text { System }{ }^{(16)} \text { / Tucson, AZ } \end{gathered}$ | C/FPIF | NAVAIR | Jun 2021 | Aug 2023 | 8 | 423,625.00 | Y |  | Jan 2020 |

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / SIDEWINDER BLOCK II |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budge 1507N / 02 / 2 |  |  | Sub Activity: | P-1 Line Item Number / Title: 2209 / Sidewinder |  |  |  |  |  |  |  |  |
| Cost Elements | O c O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.3) All Up Round - Block II Plus ${ }^{(\dagger)}$ |  | 2022 | Raytheon Missile System ${ }^{(16)}$ / Tucson, AZ | C/FPIF | NAVAIR | Mar 2022 | Aug 2024 | 8 | 455,375.00 | Y |  | Jan 2021 |
| 1.1.3) All Up Round - Block II Plus ${ }^{(\dagger)}$ |  | 2023 | Raytheon Missile System ${ }^{(16)}$ / Tucson, AZ | C/FPIF | NAVAIR | Mar 2023 | Aug 2025 | 8 | 460,000.00 | Y |  | Jan 2022 |

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

Footnotes:
${ }^{(14)}$ AUR BLK II
${ }^{(15)}$ CATM
${ }^{(16)}$ AUR BLK II PLUS

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## UNCLASSIFIED



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## UNCLASSIFIED



## UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 2| Cost Elements (Units in Each) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{o} \end{aligned}$ | $\begin{array}{\|l\|l} \hline \mathbf{M} \\ \mathbf{F} \\ \mathbf{R} \\ \# \end{array}$ | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL <br> AS OF <br> 1 OCT |
|  | 2 | 2018 | NAVY | 41 | 3 | 38 |
|  | 2 | 2018 | $\mathrm{AF}^{(\ddagger)}$ | 64 | 6 | 58 |
|  | 2 | 2018 | FMS ${ }^{(\ddagger)}$ | 76 | 6 | 70 |
|  | 2 | 2018 | Total | 181 | 15 | 166 |
|  | 2 | 2019 | NAVY | 75 | 0 | 75 |
|  | 2 | 2019 | $\mathrm{AF}^{(\ddagger)}$ | 15 | 0 | 15 |
|  | 2 | 2019 | FMS ${ }^{(\ddagger)}$ | 34 | 0 | 34 |
|  | 2 | 2019 | Total | 124 | 0 | 124 |
|  | 2 | 2020 | NAVY | 75 | 0 | 75 |
|  | 2 | 2020 | $\mathrm{AF}^{( \pm)}$ | 130 | 0 | 130 |
|  | 2 | 2020 | FMS ${ }^{(\ddagger)}$ | 20 | 0 | 20 |
|  | 2 | 2020 | Total | 225 | 0 | 225 |
|  | 2 | 2022 | NAVY | 51 | 0 | 51 |
|  | 2 | 2022 | $\mathrm{AF}^{(\ddagger)}$ | 80 | 0 | 80 |
|  | 2 | 2022 | Total | 131 | 0 | 131 |
|  | 2 | 2023 | NAVY | 48 | 0 | 48 |
|  | 2 | 2023 | $\mathrm{AF}^{(\ddagger)}$ | 80 | 0 | 80 |
|  | 2 | 2023 | FMS ${ }^{(\ddagger)}$ | 20 | 0 | 20 |
|  | 2 | 2023 | Total | 148 | 0 | 148 |

Date: April 2022
P-1 Line Item Number / Title: 2209 / Sidewinder

## Item Number / Title [DODIC]:

1/ SIDEWINDER BLOCK II
1.1.3) All Up Round - Block II Plus ${ }^{(3)}$

Prior Years Deliveries: 50

|  | 3 | 2018 | NAVY | 12 | 1 | 11 |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: |
|  | 3 | 2018 | AF $^{(\ddagger)}$ | 75 | 7 | 68 |
|  | 3 | 2018 | FMS $^{(\ddagger)}$ | 73 | 6 | 67 |
|  | $\mathbf{3}$ | $\mathbf{2 0 1 8}$ | Total | $\mathbf{1 6 0}$ | $\mathbf{1 4}$ | $\mathbf{1 4 6}$ |
|  | 3 | 2019 | NAVY | 8 | 0 | 8 |
|  | 3 | 2019 | AF $^{(\ddagger)}$ | 80 | 0 | 80 |
|  | 3 | 2019 | FMS $^{(\ddagger)}$ | 153 | 0 | 153 |
|  | $\mathbf{3}$ | $\mathbf{2 0 1 9}$ | Total | $\mathbf{2 4 1}$ | $\mathbf{0}$ | $\mathbf{2 4 1}$ |
|  | $\mathbf{3}$ | 2020 | NAVY | 8 | $\mathbf{0}$ | 8 |



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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / SIDEWINDER BLOCK II |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2209 / Sidewinder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \hline \end{aligned}$ |
| $\begin{aligned} & 0 \\ & \mathrm{c} \\ & \mathrm{c} \\ & \hline \end{aligned}$ |  |  |  | ACCEPT |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | $\stackrel{\text { PROC }}{ }$ | $\begin{aligned} & \text { TO } 1 \\ & \text { OCT } \\ & 2022 \end{aligned}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & J \\ & \text { J } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{U} \\ & \mathrm{G} \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \underset{\sim}{N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \end{aligned}$ | $\begin{aligned} & A \\ & \mathbf{A} \\ & \text { G } \end{aligned}$ | S E P |  |
| 3 | 2020 | $\mathrm{AF}^{(\ddagger)}$ | 11 | 2 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2020 | Total | 19 | 4 | 15 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 3 | 2021 | NAVY | 8 | 0 | 8 | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | - | - | - |  |  | 0 |
| 3 | 2021 | AF ${ }^{(*)}$ | 8 | 0 | 8 | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - |  |  | 0 |
| 3 | 2021 | FMS ${ }^{(\ddagger)}$ | 66 | 0 | 66 | - | - | - | - | - | - | - | - | - | - | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 |  |  | 0 |
| 3 | 2021 | Total | 82 | 0 | 82 | - | - | - | - | - | - | - | - | - | - | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 6 | 6 | 5 | 5 | 5 | $\cdot$ | $\cdot$ | 0 |
| 3 | 2022 | NAVY | 8 | 0 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 6 |
| 3 | 2022 | $\mathrm{AF}^{(+)}$ | 8 | 0 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 6 |
| 3 | 2022 | FMs ${ }^{(\ddagger)}$ | 6 | 0 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 4 |
| 3 | 2022 | Total | 22 | 0 | 22 | - | - | - | - | - | - | - | - | $\cdot$ | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 3 | 16 |
| 3 | 2023 | NAVY | 8 | 0 | 8 |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 |
| 3 | 2023 | $\mathrm{AF}^{(\ddagger)}$ | 8 | 0 | 8 |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 |
| 3 | 2023 | FMs ${ }^{(\ddagger)}$ | 56 | 0 | 56 |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 56 |
| 3 | 2023 | Total | 72 | 0 | 72 |  |  |  |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | $\cdot$ | - | - | - | $\cdot$ | - | 72 |
|  |  |  |  |  |  | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \text { A } \\ & \mathrm{N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{U} \\ & \mathrm{G} \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathbf{U} \\ & \mathrm{~N} \end{aligned}$ | J U L | $\begin{aligned} & \hline \mathrm{A} \\ & \mathrm{U} \\ & \mathrm{G} \end{aligned}$ | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / SIDEWINDER BLOCK II |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2209 / Sidewinder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{gathered} \text { Cost Elements } \\ \text { (Units in Each) } \\ \hline \end{gathered}$ |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2026 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & B \\ & A \\ & A \\ & L \\ & A \\ & N \\ & C \\ & E \end{aligned}$ |
| $\begin{aligned} & 0 \\ & \mathrm{c} \\ & \mathrm{c} \end{aligned}$ |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2026 |  |  |  |  |  |  |  |  |  |
|  | \# | SERVICE | PROC QTY | $\begin{array}{\|l\|} \hline \text { FKIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2024 \end{array}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { o } \\ & \text { v } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathbf{A} \\ & \mathbf{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathbf{P} \\ & \mathbf{R} \end{aligned}$ | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & U \\ & \mathbf{U} \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { V } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J u L | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 3 | 32020 | $\mathrm{AF}^{\left({ }^{()}\right.}$ | 11 | 11 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 32020 | Total | 19 | 19 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 3 | 32021 | NAVY | 8 | 8 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 32021 | $\mathrm{AF}^{()^{\prime}}$ | 8 | 8 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 32021 | FMS ${ }^{(\ddagger)}$ | 66 | 66 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 32021 | Total | 82 | 82 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 3 | 32022 | NAVY | 8 | 2 | 6 | 1 | 1 | 1 | $\cdot$ | 1 | 1 | - | - | 1 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 32022 | $\mathrm{AF}^{\left({ }^{()}\right.}$ | 8 | 2 | 6 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 32022 | FMS ${ }^{(\ddagger)}$ | 6 | 2 | 4 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 32022 | Total | 22 | 6 | 16 | 3 | 3 | 3 | 2 | 2 | 1 | - | - | 1 | 1 | - | - | - | $\cdot$ | - | - | - | - | - | - | - | - | - | - | 0 |
| 3 | 32023 | NAVY | 8 | 0 | 8 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | 1 | - | 1 | - | 1 | 1 | 1 | - |  |  | 0 |
| 3 | 32023 | $\mathrm{AF}^{\left({ }^{(+)}\right.}$ | 8 | 0 | 8 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 |  |  | 0 |
| 3 | 32023 | FMS ${ }^{(\ddagger)}$ | 56 | 0 | 56 | - | - | - | - | - | - | - | - | - | - | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 |  |  | 0 |
| 3 | 32023 | Total | 72 | 0 | 72 | - | - | - | - | - | - | - | - | - | - | 7 | 5 | 7 | 7 | 6 | 6 | 7 | 5 | 6 | 6 | 5 | 5 | - | - | 0 |
|  |  |  |  |  |  | - | N | D | J A d | $\underset{\mathrm{E}}{\mathrm{F}}$ | M <br> A | A <br> P | M A | J | J | A | S | O c ¢ | N | D | A | $\underset{\mathrm{E}}{\mathrm{F}}$ | M ${ }_{\text {M }}$ | A | M A | J | ${ }_{\text {J }}$ | A | $\stackrel{\text { S }}{\text { E }}$ |  |
|  |  |  |  |  |  |  | v | c | N | B | R | R | Y | N | L | G | P | T | v | c | N | в | ${ }_{\text {R }}$ | R | Y | N | L | G | P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 2209 / Sidewinder |  |  |  |  | Item Number / Title [DODIC]: 1 / SIDEWINDER BLOCK II |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \mathrm{ALT} \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Manufacturing } \\ \text { PLT } \end{gathered}$ | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Manufacturing } \\ \text { PLT } \end{gathered}$ | Total After Oct 1 |
| 1 | Raytheon Missile Systems (14) - Tucson, AZ | 300 | 600 | 1,400 | 0 | 9 | 13 | 22 | 0 | 6 | 29 | 35 |
| 2 | Raytheon Missile System ${ }^{(15)}$ - Tucson, AZ | 300 | 600 | 1,400 | 0 | 9 | 16 | 25 | 0 | 6 | 29 | 35 |
| 3 | Raytheon Missile System ${ }^{(16)}$ - Tucson, AZ | 300 | 600 | 1,400 | 0 | 5 | 19 | 24 | 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).

## Footnotes:

${ }^{(14)}$ AUR BLK II
${ }^{(15)}$ CATM
${ }^{(16)}$ AUR BLK II PLUS

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| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  | P-1 Line Item Number / Title: 2209 / Sidewinder |  |  |  |  |  | Modification Number / Title: <br> 1 / Inertial Measurement Unit (IMU) Obsolescence upgrade |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 0.000 | 7.364 | 7.751 | 0.000 | 7.751 | 6.906 | 6.124 | 5.318 | 12.633 | 73.009 | 119.105 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Mililions) | 0.000 | 0.000 | 7.364 | 7.751 | 0.000 | 7.751 | 6.906 | 6.124 | 5.318 | 12.633 | 73.009 | 119.105 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 0.000 | 7.364 | 7.751 | 0.000 | 7.751 | 6.906 | 6.124 | 5.318 | 12.633 | 73.009 | 119.105 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

AIM-9X BLK II is a within/beyond visual range (WVR/BVR), data-linked, infrared (IR) missile used by joint force air campaigns in all-weather, full spherical engagements to kill target sets employing sophisticated electronic attack, modern countermeasures, and advanced stealth technology.

This procurement of AIM-9X-4 Guidance Units (GUs) is to improve reliability and availability of missiles by replacing the obsolete AIM-9X-2 GU through retrofit by attrition. This will increase GU reliability beginning in 2024, with an improvement of up to $44 \%$ in the 2027-2037 timeframe. It will also reduce repair Turn Around Time for GU related failures from 270 days to as few as 14 days. By procuring upgraded GUs, it is also projected that 271 missiles will be preserved in the inventory from FY2022 to FY2026 as a result of this upgrade.

The AIM-9X-2 GU accounts for $95 \%$ of all missile failures, and this GU uses an obsolete, low-reliability mechanical Inertial Measurement Unit (IMU) that must be replaced in $80 \%$ of these failures. The upgraded AIM-9X-4 GU contains a Ring Laser Gyro that is not the same form or fit, which is why the entire GU must be replaced.

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| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  | P-1 Line Item Number / Title: 2209 / Sidewinder |  |  |  |  |  | Modification Number / Title: <br> 1 / Inertial Measurement Unit (IMU) Obsolescence upgrade |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |
| Models of Systems Affected: AIM-9X-2 |  | Modification Type: Reliability |  |  |  |  | Related RDT\&E PEs: 0207161N |  |  |  |  |  |
|  | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \hline \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Financial Plan | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Inertial Measurement Unit (IMU) Obsolescence upgrade |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) Guidance Unit - NonOrganic ${ }^{(17)}$ | - 1 - | - 1 - | $57 / 7.364$ | 48 /7.751 | -1- | $48 / 7.751$ | $42 / 6.906$ | $38 / 6.124$ | $34 / 5.318$ | $80 / 12.633$ | $467 / 73.009$ | $766 / 119.105$ |
| Subtotal: Recurring | - 10.000 | -1- | 17.364 | - 17.751 | -1- | - 17.751 | - 16.906 | - 16.124 | - 15.318 | - /12.633 | - 173.009 | - /119.105 |
| Subtotal: Inertial Measurement Unit (IMU) Obsolescence upgrade | 7. | - 1 - | 57/7.364 | 48/7.751 | 1 | 48/7.751 | 42/6.906 | 38/6.124 | $34 / 5.318$ | 80/12.633 | 467/73.009 | 766/119.105 |
| Subtotal: Procurement, All Modification Items | - 10.000 | - 1. | - 17.364 | - 17.751 | - 1- | - 17.751 | - 16.906 | - 16.124 | - $/ 5.318$ | - /12.633 | - 173.009 | - /119.105 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Inertial Measurement Unit (IMU) Obsolescence upgrade | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| Subtotal: Installation | - 10.000 | - $1 \cdot$ | - 1 - | - 1- | - 1 - | 1. | 1. | $1-$ | 1. | 1. | - 1 - | - 10.000 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 0.000 | 7.364 | 7.751 | 0.000 | 7.751 | 6.906 | 6.124 | 5.318 | 12.633 | 73.009 | 119.105 |

## Exhibit P-3a, Individual Modification: PB 2023 Navy <br> Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2

## P-1 Line Item Number / Title: 2209 / Sidewinder

## Date: April 2022

## Modification Number / Title:

1 / Inertial Measurement Unit (IMU)
Obsolescence upgrade

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

Modification Item 1 of 1: Inertial Measurement Unit (IMU) Obsolescence upgrade


## Footnotes:

${ }^{(17)}$ Installation occurs during missile repair at no additional cost. No additional support costs are required. Increase in unit cost from FY 2022 to FY 2023 is due procurement of lower quantity in FY 2023.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | ments for Cod | B Items: $\mathrm{N} /$ |  |  | Other Relat | Program E | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 000 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\text { FY } 2023$ Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | 1,056 | 125 | 125 | 125 | - | 125 | 125 | 155 | 195 | 144 | 793 | 2,843 |
| Gross/Weapon System Cost (\$ in Millions) | 4,282.282 | 503.011 | 598.826 | 572.040 | 0.000 | 572.040 | 716.059 | 868.624 | 1,090.517 | 916.820 | 3,132.394 | 12,680.573 |
| Less PY Advance Procurement (\$ in Millions) | 83.789 | 83.623 | 83.512 | 82.917 | - | 82.917 | - | 147.994 | 186.714 | - | - | 668.549 |
| Net Procurement (P-1) (\$ in Millions) | 4,198.493 | 419.388 | 515.314 | 489.123 | 0.000 | 489.123 | 716.059 | 720.630 | 903.803 | 916.820 | 3,132.394 | 12,012.024 |
| Plus CY Advance Procurement (\$ in Millions) | 221.768 | 66.716 | 45.357 | - | - | - | 206.905 | 127.803 | - | - | - | 668.549 |
| Total Obligation Authority (\$ in Millions) | 4,420.261 | 486.104 | 560.671 | 489.123 | 0.000 | 489.123 | 922.964 | 848.433 | 903.803 | 916.820 | 3,132.394 | 12,680.573 |
| (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 Thousands) | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.000 |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 4,055.191 | 4,024.088 | 4,790.608 | 4,576.320 | - | 4,576.320 | 5,728.472 | 5,604.026 | 5,592.395 | 6,366.806 | 3,950.055 | 4,460.279 |

## Description:

The SM-6 Block IIIA/IB provides an extended range engagement capability to provide the air superiority and the umbrella of protection for joint U.S. forces and allies against the full spectrum of manned-fixed and rotary-winged aircraft, unmanned aerial vehicles, and land attack and anti-ship cruise missiles in flight. This capability contributes significantly to the continuous protection of forward deployed ground maneuver forces as well as theater assets.

The SM-6 is the primary extended range air defense weapon for AEGIS cruisers and destroyers and potentially future combatants. SM-6 Block I/IA was approved for a five-year Multiyear Procurement (MYP) beginning in FY2019 and completing in FY2023. Advance Procurement information for this program is provided in exhibit 2234C. FY2023 is the last year of SM-6 BLK I MYP production. NAVSEA is planning to pursue a Multiyear procurement (MYP) beginning in FY 2024. Advanced Procurement information for this program is provided in exhibit 2234C.

Investment for increased production startup begins in FY2022 for the replication of special tooling and test equipment to support a combined SM-6 BLK IA/IB production capacity of 200 per year by FY2026 for SM-6 BLK IA.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical

## P-1 Line Item Number / Title:

 Missiles
## 2234 / Standard Missile


*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 2022 enactment includes congressional rescission of $\$ 16.148$ million in FY 2021. However, the rescission is not reflected on the P-40. The impact of this rescission is reflected in the cost elements.
SM-6 BLKIIIA: FY2023 provides $\$ 489.123$ M for SM-6 BLK I/IA including Advance Procurement. Procure 125 SM-6 BIK I and SM-6 Block IA missiles and canisters to support warfighter requirements as well as required support costs such as production engineering, Diminishing Manufacturing Sources (DMS), containers, fleet documentation, and install/checkout equipment. The budget reflects a funding profile for a fiveyear Multiyear Procurement that
began in FY2019 and completes in FY2023. Advance Procurement information for SM-6 BLKI/IA is provided in exhibit 2234C (P10).
FE002 Production Start Up: FY2023 provides a total of $\$ 78.650 \mathrm{M}$ to continue the effort for replication of special tooling and test equipment. FY2023 allocates a portion of what is required to increase SM-6 BLK IA/IB production capacity to 200 units per year by FY2026.

FE831 Production Engineering Support: FY2023 FE831 funds contract related engineering services efforts for SM-6 BLK I/IA.
FE958 is container production increase from $\$ 470 \mathrm{~K}$ to $\$ 480 \mathrm{~K}$ is required to support SM-6 BLKIIIA Multiyear procurement deliveries by providing shipping containers.
FE851 Diminishing Manufacturing Sources reduces from $\$ 25.576 \mathrm{M}$ to 17.920 M due to decreased requirement for obsolescence engineering and for finding and procuring replacement parts for items no longer able to procure, including life of type buys and certification of replacement vendors.

FE981 Fleet documentation increase from $\$ 960 \mathrm{~K}$ to $\$ 979 \mathrm{~K}$ will cover the incorporation of additional engineering change proposals (ECPs), waivers and deviations.

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 2234 / Standard Missile |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 1 / STANDARD MISSILE |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | $\begin{gathered} \text { Unit Cost } \\ (\$ K) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| 2.4) FE851 SM-6 BLKI/IA Diminishing Manufacturing Sources (DMS) | - | - | 92.072 | - | - | 12.756 | - | - | 19.076 | - | - | 17.920 | - | - | - | - | - | 17.920 |
| 2.5) FE951 SM-6 BLKI/ <br> IA Tools and Test Equipment | - | - | 13.968 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.6) FE958 SM-6 BLKIIIA Containers | - | - | 2.287 | - | - | 0.241 | - | - | 0.470 | - | - | 0.480 | - | - | - | - | - | 0.480 |
| 2.7) FE981 SM-6 BLKIIIA ILS/Fleet Documentation | - | - | 7.832 | - | - | 0.697 | - | - | 0.960 | - | - | 0.979 | - | - | - | - | - | 0.979 |
| 2.8) FE971 SM-6 BLI/IA Install/Checkout Equip/ Training Material | - | - | 42.415 | - | - | 1.679 | - | - | 1.679 | - | - | 1.909 | - | - | - | - | - | 1.909 |
| Subtotal: Support - SM-6 Cost Cost | - | - | 528.907 | - | - | 42.752 | - | - | 49.161 | - | - | 49.591 | - | - | - | - | - | 49.591 |
| Support - Other Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) WAXXX Acquisition Workforce Fund - 2009 | - | - | 1.103 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.2) Enacted Rescissions | - | - | - | - | - | 16.148 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Other Cost | - | - | 1.103 | - | - | 16.148 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | 4,055.191 | 1,056 | 4,282.282 | 4,024.088 | 125 | 503.011 | 4,790.608 | 125 | 598.826 | 4,576.320 | 125 | 572.040 | - | - | 0.000 | 4,576.320 | 125 | 572.040 |

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

## Footnotes:


 completing in FY 2023. Advance Procurement information is provided in exhibit 2234C
 are procured for the SM-6 BLKIA missiles.

| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy ${ }^{\text {a }}$ ( Date: April 2022 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  | P-1 Line Item Number / Title: 2234 / Standard Missile |  |  |  | Item Number / Title [DODIC]: 1 / STANDARD MISSILE |  |  |  |  |
| 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 | Qty (Each) | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) FE002 SM-6 Block I All Up Round Missile ${ }^{(\dagger)}$ |  | 2017 | Raytheon CO / Tucson AZ | SS/FP | NAVSEA | Mar 2017 | Sep 2019 | 125 | 2,209.528 | Y |  | Jan 2016 |
| 1.1.3) FE002 SM-6 Block I/IA All Up Round Missile ${ }^{(\dagger)}$ |  | $2018{ }^{(3)}$ | Raytheon CO / Tucson AZ | SS/FFP | NAVSEA | Sep 2018 | Sep 2020 | 117 | 3,327.504 | Y |  | Jan 2016 |
| 1.1.3) FE002 SM-6 Block I/IA All Up Round Missile ${ }^{(\dagger)}$ | $\checkmark$ | 2018 | Raytheon CO / Tucson AZ | SS/FFP | NAVSEA | Sep 2018 | Mar 2021 | 8 | 3,327.504 | Y |  | Jan 2016 |
| 1.1.3) FE002 SM-6 Block I/IA All Up Round Missile ${ }^{(\dagger)}$ |  | 2019 | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Dec 2019 | Jan 2022 | 125 | 3,297.352 | Y |  | Oct 2017 |
| 1.1.3) FE002 SM-6 Block I/IA All Up Round Missile ${ }^{(\dagger)}$ |  | 2020 | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Apr 2020 | Nov 2023 | 125 | 3,293.688 | Y |  | Oct 2017 |
| 1.1.3) FE002 SM-6 Block I/IA All Up Round Missile ${ }^{(\dagger)}$ |  | 2021 | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Jun 2021 | Nov 2024 | 125 | 3,271.288 | Y |  | Oct 2017 |
| 1.1.3) FE002 SM-6 Block I/IA All Up Round Missile ${ }^{(\dagger)}$ |  | 2022 | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Mar 2022 | Nov 2025 | 125 | 3,270.240 | Y |  | Oct 2017 |
| 1.1.3) FE002 SM-6 Block I/IA All Up Round Missile ${ }^{(\dagger)}$ |  | 2023 | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Mar 2023 | Nov 2026 | 125 | 3,257.416 | Y |  | Oct 2017 |
| 1.1.5) FEO02 Canister - SM-6 Block I/IA (Mk $21 \operatorname{Mod} 3 / \operatorname{Mod} 4)^{(\dagger)}$ |  | 2017 | BAE / MINNEAPOLIS, MN | SS/FP | NAVSEA | Mar 2017 | May 2018 | 125 | 211.672 | Y |  | Feb 2016 |
| 1.1.5) FE002 Canister - SM-6 Block IIIA (Mk $21 \operatorname{Mod} 3 / \operatorname{Mod} 4)^{(+)}$ |  | 2018 | BAE / MINNEAPOLIS, MN | SS/FP | NAVSEA | Mar 2018 | May 2019 | 117 | 216.342 | Y |  | Feb 2016 |
| 1.1.5) FE002 Canister - SM-6 Block I/IA (Mk $21 \operatorname{Mod} 3 / \operatorname{Mod} 4)^{(\dagger)}$ | $\checkmark$ | 2018 | BAE / MINNEAPOLIS, MN | SS/FP | NAVSEA | Mar 2018 | May 2019 | 8 | 264.500 | Y |  | Feb 2016 |
| 1.1.5) FE002 Canister - SM-6 Block $\text { I/IA }(\operatorname{Mk} 21 \operatorname{Mod} 3 / \operatorname{Mod} 4)^{(+)}$ |  | 2019 | BAE / MINNEAPOLIS, MN | SS/FP | NAVSEA | Mar 2019 | May 2020 | 125 | 267.200 | Y |  | Feb 2018 |
| 1.1.5) FE002 Canister - SM-6 Block IIIA (Mk $21 \operatorname{Mod} 3 / \operatorname{Mod} 4)^{(+)}$ |  | 2020 | BAE / MINNEAPOLIS, MN | SS/FP | NAVSEA | Mar 2020 | May 2021 | 125 | 268.800 | Y |  | Feb 2018 |
| 1.1.5) FE002 Canister - SM-6 Block IIIA (Mk 21 Mod 3/Mod 4) ${ }^{(+)}$ |  | 2021 | BAE / MINNEAPOLIS, MN | SS/FP | NAVSEA | Dec 2020 | Feb 2022 | 125 | 281.600 | Y |  | Feb 2018 |
| 1.1.5) FE002 Canister - SM-6 Block I/IA (Mk $21 \operatorname{Mod} 3 / \operatorname{Mod} 4)^{(\dagger)}$ |  | 2022 | BAE / MINNEAPOLIS, MN | SS/FP | NAVSEA | Dec 2021 | Feb 2023 | 125 | 287.232 | Y |  | Feb 2018 |
| 1.1.5) FE002 Canister - SM-6 Block $\mathrm{I} / \mathrm{IA}(\mathrm{Mk} 21 \operatorname{Mod} 3 / \operatorname{Mod} 4)^{(+)}$ |  | $2023{ }^{(4)}$ | BAE / MINNEAPOLIS, MN | TBD | NAVSEA | May 2023 | Jul 2024 | 125 | 292.976 | N |  | Feb 2022 |

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy | Date: April 2022 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $1507 \mathrm{~N} / 02$ / 2 | P-1 Line Item Number / Title: <br> 2234 / Standard Missile | Item Number / Title [DODIC]: <br> $1 /$ STANDARD MISSILE |

## Footnotes:

${ }^{(3)}$ Lines 1.1.3 AURs Delivery schedule reflects contracted delivery dates.
${ }^{(4)}$ This is an open competition, system did not allow for TBD in contract and location

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 2234 / Standard Missile |  |  |  |  | Item Number / Title [DODIC]: 1 / STANDARD MISSILE |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Raytheon CO- Tucson AZ | 125 | 125 | 125 | 3 | 3 | 23 | 26 | 3 | 3 | 24 | 27 |
| 2 | Raytheon CO- Tucson AZ | 125 | 125 | 125 | 3 | 3 | 23 | 26 | 3 | 3 | 34 | 37 |
| 3 | BAE - MINNEAPOLIS, MN | 125 | 125 | 125 | 3 | 8 | 14 | 22 | 3 | 8 | 14 | 22 |

" $A$ " 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).

## Footnotes:

${ }^{(5)}$ All deliveries reflect contractual delivery dates, FY17/18 P0016 and MYP P00004

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| Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles |  |  |  |  | P-1 Line Item Number / Title: 2234 / Standard Missile |  |  |  |  |  |  |  |
| Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |  |  |  |
| Line Item MDAP/MAIS Code: 000 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Gross/Weapon System Cost (\$ in Millions) | 221.768 | 66.716 | 45.357 | - | - | - | 206.905 | 127.803 | - | - | - | 668.549 |
| Net Procurement (P-1) (\$ in Millions) | 221.768 | 66.716 | 45.357 | - | - | - | 206.905 | 127.803 | - | - | - | 668.549 |
| Total Obligation Authority (\$ in Millions) | 221.768 | 66.716 | 45.357 | - | $\cdot$ | - | 206.905 | 127.803 | $\cdot$ | - | $\cdot$ | 668.549 |

## Description:

The SM-6 provides an extended range engagement capability to provide the air superiority and the umbrella of protection for joint U.S. forces and allies against the full spectrum of manned-fixed and rotarywinged aircraft, unmanned aerial vehicles, and land attack and anti-ship cruise missiles in flight. This capability contributes significantly to the continuous protection of forward deployed ground maneuver forces as well as theater rear assets. The SM-6 is the primary extended range air defense weapon for AEGIS cruisers and destroyers and potentially future combatants.

FY 2023 is the last year of a five year MYP. No AP funds are required.

## Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Navy

| Appropriation / Budget Activity / Budget Sub Activity: 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles |  |  |  |  | P-1 Line Item Number / Title: 2234 / Standard Missile |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: 000 |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | $\begin{aligned} & \hline \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-10 | 1 / STANDARD MISSILE |  |  | 1,056/221.768 | 125/66.716 | 125/45.357 | 125/ - | - 1 | 125/ - |
| P-40 | Total Gross/Weapon System Cost |  |  | 1,056 / 221.768 | 125/66.716 | 125/45.357 | 125/ - | - 1 - | 125/ - |

*Title represents the P-10 Title for Advance Procurement.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

The budget reflects a funding profile for a five-year Multiyear Procurement beginning in FY 2019 and completing in FY 2023. The multiyear procurement contracts provide for the procurement of up to 625 Standard Missile-6
(SM-6) guided missiles. The use of Advanced Procurement provides Economic Order Quantity (EOQ) to reduce the cost of subcontractor effort, material, and components enabling greater production efficiencies and substantial cost
savings.
 FY19-23
 obligation of funds after
allocation without additional negotiation.
 lead time due to
 takes 24 months to
deliver due to the lead time in the specialty Circuit Card Assemblies.

 greater production efficiencies and substantial cost savings.

SM-6 BLK IB will not be included in this MYP based on the fact that it will be in the LRIP phase.

## UNCLASSIFIED



## UNCLASSIFIED

| Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2023 Navy |  |  |  |  | Date: April 2022 <br> P-5 Number / Title: <br> 1 / STANDARD MISSILE |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 | P-1 Line Item Number / Title: 2234 / Standard Missile |  |  |  |  |  |  |
| Cost Elements | $\begin{aligned} & \text { QPA } \\ & \text { (Each) } \end{aligned}$ | FY 2023 |  |  |  |  |  |
|  |  | Production Leadtime (Months) | Unit Cost (\$ K) | Contract Forecast Date | $\begin{gathered} 2023 \text { Qty } \\ \text { (Each) } \end{gathered}$ | For FY | Total Cost Request (\$M) |
| CFE |  |  |  |  |  |  |  |
| FY20 EOQ | 0 |  |  |  |  |  | - |
| FY21 EOQ | 0 |  |  |  |  |  | - |
| FY22 EOQ | 0 |  |  |  |  |  | - |
| FY23 EOQ | 0 |  |  |  |  |  | - |
| Total: CFE |  |  |  |  |  |  | 0.000 |
| Total Advance Procurement/Obligation Authority |  |  |  |  |  |  | - |

Description:
The Advance Procurement (AP) funding provides Economic Order Quantity (EOQ) to reduce the cost of subcontractor effort, material, and components enabling greater production efficiencies and substantial cost.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: 02 | 4162N |  | Other Relat | Program E | ments: 060 | 786N, 02041 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | 31 | - | 31 | 58 | 52 | 52 | 51 | - | 244 |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 0.000 | 0.000 | 58.481 | 0.000 | 58.481 | 109.149 | 97.071 | 97.351 | 98.449 | - | 460.501 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 0.000 | 0.000 | 58.481 | 0.000 | 58.481 | 109.149 | 97.071 | 97.351 | 98.449 | - | 460.501 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 0.000 | 0.000 | 58.481 | 0.000 | 58.481 | 109.149 | 97.071 | 97.351 | 98.449 | - | 460.501 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | 1,886K | - | 1,886K | 1,882K | 1,867K | 1,872K | 1,930K | - | 1,887K |

## Description:

U.S. Navy will procure an AGM-158C derived capability to enhance long range strike and existing OASuW capability.

 components from the LRASM (AGM-158C family) production line.
 Link, advanced survivability, and LRASM OASuW capabilities into a Navy AGM-158C-3 baseline. Future efforts will expand both Navy strike and OASuW capabilities within this program.

*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:
 software, Beyond Line of Sight Weapons Data Link, advanced survivability, and the JASSM-ER range and strike capability.

| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 2236 / JASSM |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / JASSM |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2021 |  | FY 2022 |  | FY 2023 Base |  |  | FY 2023 OCO |  | FY 2023 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | - |  | - |  |  | 31 |  | - |  | 31 |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 0.000 |  | 0.000 |  |  | 481 |  | 0.000 |  | 58.481 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 0.000 |  | 0.000 |  |  | 481 |  | 0.000 |  | 58.481 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 0.000 |  | 0.000 |  |  | 481 |  | 0.000 |  | 58.481 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) |  |  |  |  |  |  | - |  | - |  | - |  |  | 6K |  | - |  | 1,886K |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) |  | Total Cost (\$M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Hardware - AGM-158 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 1.1.1) AGM-158 } \\ & \text { AUR }^{(\dagger)(1)} \end{aligned}$ | - | - | - | - | - | - - | - | - | - | 1,750K | 31 | 54.250 | - |  | - | 1,750K | 31 | 54.250 |
| 1.1.2) Contractor ECO | - | - | - | - | - | - | - | - | - | - | - | 1.232 | - |  | - - | - | - | 1.232 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 55.482 | - |  | - - | - | - | 55.482 |
| Subtotal: Hardware -AGM-158 Cost | - | - | - | - | - | - | - | - | - | - | - | 55.482 | - |  | - - | - | - | 55.482 |
| Hardware - Nonrecurring and Ancillary Equip Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.1) NRE / Obsolescence ${ }^{(2)}$ | - | - | - | - | - | - | - | - | - | - | - | 0.980 | - |  | - - | - | - | 0.980 |
| 2.1.2) Tooling/ Production Facilitization ${ }^{(3)}$ | - | - | - | - | - | - | - | - | - | - | - | 0.860 | - |  | - | - | - | 0.860 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 1.840 | - |  | - | - | - | 1.840 |
| Subtotal: Hardware - <br> Nonrecurring and Ancillary <br> Equip Cost | - | - | - | - | - | - | - | - | - | - | - | 1.840 | - |  | - | - | - | 1.840 |
| Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) Production Support <br> (4) | - | - | - | - | - | - | - | - | - | - | - | 1.159 | - |  | - | - | - | 1.159 |
| Subtotal: Support Cost | $\cdot$ | - | - | $\cdot$ | - | - | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | - | 1.159 | - |  | - | $\cdot$ | $\bullet$ | 1.159 |

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  | P-1 Line Item Number / Title: 2236 / JASSM |  |  |  | Item Number / Title [DODIC]: <br> 1 / JASSM |  |  |  |  |
| 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 <br> (s) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) AGM-158 AUR ${ }^{(+)}$ |  | 2023 | Lockheed Martin Missiles and Fire Control / Troy, AL | SS/FPIF | Eglin AFB | Mar 2023 | Aug 2025 | 31 | 1,750K | Y |  | Jul 2022 |

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

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / JASSM |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2236 / JASSM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
| O  <br>  F <br> C  <br> C R <br> O $\#$ | FY | SERVICE | PROC QTY | $\begin{gathered} \text { TO } \\ \text { TOT } \\ \text { OCT } \\ 2022 \end{gathered}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ \text { 1 OCT } \end{gathered}$ | O c T | N O v | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | A P R | M | J N | J | A U G | S E P | O c T | N | D E C | J A N | F E B | M <br>  <br> R | A P R | M A Y | J u N | J u L | A U G | S E P |  |
| 1.1.1) | AGM-1 | 8 AUR ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2023 | navy | 31 | 0 | 31 |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - | 31 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br> P <br> R | M | U | ${ }_{\text {J }}^{\text {u }}$ | A | $\stackrel{\text { S }}{\text { en }}$ | O c T | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | A | F E B | M <br>  <br> R | A P R | M A ¢ | J u N | J | A U G | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 2236 / JASSM |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / JASSM |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | der |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 | MAX For 2023 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|c\|} \hline \text { Manufacturing } \\ \text { PLT } \end{array}$ | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \begin{array}{c} \text { Manufacturing } \\ \text { PLT } \end{array} \\ \hline \end{array}$ | Total After Oct 1 |
| 1 | Lockheed Martin Missiles and Fire Control - Troy, AL | 40 | 210 | 210 | 0 | 6 | 29 | 35 | 0 | 6 | 29 | 35 |

"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).

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

## P-1 Line Item Number / Title:

2238 / Small Diameter Bomb II (SDB II)

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: 02 | 162N |  | Other Relate | Program El | ments: 0604 | 329 N |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 439 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | FY 2023 Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | 1,301 | 248 | 164 | 481 | - | 481 | 487 | 389 | 394 | 389 | 1,147 | 5,000 |
| Gross/Weapon System Cost (\$ in Millions) | 220.690 | 57.755 | 33.764 | 108.317 | 0.000 | 108.317 | 102.635 | 89.364 | 91.847 | 92.496 | 263.371 | 1,060.239 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 220.690 | 57.755 | 33.764 | 108.317 | 0.000 | 108.317 | 102.635 | 89.364 | 91.847 | 92.496 | 263.371 | 1,060.239 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 220.690 | 57.755 | 33.764 | 108.317 | 0.000 | 108.317 | 102.635 | 89.364 | 91.847 | 92.496 | 263.371 | 1,060.239 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | 169,631.05 | 232,883.06 | 205,878.05 | 225,191.27 | - | 225,191.27 | 210,749.49 | 229,727.51 | 233,114.21 | 237,778.92 | 229,617.26 | 212,047.80 |

## Description:

Small Diameter Bomb Increment II (SDB II) is an ACAT 1C program providing the warfighter a capability to attack mobile targets in all weather. The Air Force (USAF) is the lead service. The SDB II increases joint lethality in contested environments. The SDB can strike a diverse set of targets inside an adversary's air and missile defense networks to destroy mobile platforms through the weather. With increased loadout, range, and munitions effect the network enabled SDBII enhances close combat lethality in complex terrain.

Threshold aircraft is the F-15E for the USAF and F-35B and F-35C for the Department of Navy (DON). Objective aircraft include the F/A-22, B-1, B2, F-117, F-16, B-52, Predator B, F/A-18 E/F. Milestone C was achieved June 2015.

The Acquisition Decision Memorandum was signed 4 June 2015. Lots 1 through 3 are Air Force only procurements; Lot 1 awarded 12 June 2015. SDB II will be integrated on F-35B and F-35C using BRU-61 (due to the cancellation of the Joint Miniature Munitions Bomb Rack contract), and on F/A-18 E/F using BRU-55. The F/A-18 E/F Initial Operational Capability (IOC) is planned for FY 2023; F-35 IOC is planned for FY 2025. The total planned SDB II procurement is 26,610 weapons; 21,610 for the AF and 5,000 for the DoN.

Funds may be used to resolve production DMS/MS/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement and qualification activities to preserve future production capabilities and capacities.


## *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:

 integrated logistics support

Current contract for Production Lots/Service includes the following
FY 2015 Lot 1 - USAF (144)
FY 2016 Lot 2 - USAF (250)
FY 2017 Lot 3 - USAF (312)
FY 2018 Lot 4 - USAF (660) / DoN (90)
FY 2019 Lot 5 - USAF $(1,260)$ / DoN $(750)$
FY 2020 Lot 6 - USAF (747) / DoN (461)
FY 2021 Lot 7 - USAF (674) / DoN (248)
FY 2022 Lot 8 - USAF (976) / DoN (164)

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Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 2
## P-1 Line Item Number / Title 2238 / Small Diameter Bomb II (SDB II)

## Date: April 2022

## Item Number / Title [DODIC]:

1 / Small Diameter Bomb II (SDB II)

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

| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2021 |  | FY 2022 |  | FY 2023 Base |  |  | FY 2023 OCO |  | FY 2023 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | 1,301 |  | 248 |  | 164 |  |  | 481 |  | - |  | 481 |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 220.690 |  | 57.755 |  | 33.764 |  |  | 317 |  | 0.000 |  | 108.317 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 220.690 |  | 57.755 |  | 33.764 |  |  | 317 |  | 0.000 |  | 108.317 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 220.690 |  | 57.755 |  | 33.764 |  |  | 317 |  | 0.000 |  | 108.317 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) |  |  |  |  | 169,631.05 |  |  | 232,883.06 |  | 205,878.05 |  | 225,191.27 |  |  | 225,191.27 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) |
| Hardware - SDBII Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) All Up Round $(A \cup R)^{(\dagger)(1)}$ | 141,023.06 | 1,301 | 183.471 | 199,000.00 | 248 | 49.352 | 183,803.00 | 164 | 30.144 | 208,099.79 | 481 | 100.096 | - |  | - - | 208,099.79 | 481 | 100.096 |
| Subtotal: Recurring Cost | - | - | 183.471 | - | - | 49.352 | - | - | 30.144 | - | - | 100.096 | - |  | - - | - | - | 100.096 |
| Subtotal: Hardware - SDBII Cost | - | - | 183.471 | - | - | 49.352 | - | - | 30.144 | - | - | 100.096 | - |  | - - | - | - | 100.096 |
| Hardware - Nonrecurring and Ancillary Equip Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.1) Containers ${ }^{(2)}$ | - | - | 5.847 | - | - | 1.324 | - | - | 0.910 | - | - | 2.657 | - |  | - - | - | - | 2.657 |
| Subtotal: Non Recurring Cost | - | - | 5.847 | - | - | 1.324 | - | - | 0.910 | - | - | 2.657 | - |  | - - | - | - | 2.657 |
| Subtotal: Hardware - <br> Nonrecurring and Ancillary <br> Equip Cost | - | - | 5.847 | - | - | 1.324 | - | - | 0.910 | - | - | 2.657 | - |  | - - | - | - | 2.657 |
| Support - Production Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) Telemetry Instrumentation Kits ${ }^{(3)}$ | - | - | 3.551 | - | - | 1.592 | - | - | - | - | - | 1.490 | - |  | - | - | - | 1.490 |
| 3.2) GIH Production <br> Support ${ }^{(4)}$ | - | - | 4.361 | - | - | 2.459 | - | - | 1.345 | - | - | 1.815 | - |  | - | - | - | 1.815 |
| 3.3) Software Updates ${ }^{(5)}$ | - | - | 3.244 | - | - | 1.844 | - | - | 0.758 | - | - | 1.028 | - |  | - - | - | - | 1.028 |
| Subtotal: Support - <br> Production Support Cost | - | - | 11.156 | - | - | 5.895 | - | - | 2.103 | - | - | 4.333 | - |  | - | - | - | 4.333 |
| Support - Fleet Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 2238 / Small Diameter Bomb II (SDB II) |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Small Diameter Bomb II (SDB II) |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) |
| 4.1) Weapon Load Crew Trainers (WLCT) | - | - | 2.824 | - | - | . | - | - | . | - | - | - | - | . | . | - | - | . |
| 4.2) Practical EOD Systems Trainers (PESTs) | - | - | 0.638 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.3) Integrated Logistics Support (ILS) ${ }^{(6)}$ | - | - | 4.452 | - | - | 1.184 | - | - | 0.607 | - | - | 1.231 | - | - | - | - | - | 1.231 |
| 4.4) Peculiar Support Equipment | - | - | 12.302 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - |
| Subtotal: Support - Fleet Support Cost | - | - | 20.216 | - | - | 1.184 | - | - | 0.607 | - | - | 1.231 | - | - | - | - | - | 1.231 |
| Gross/Weapon System Cost | 169,631.05 | 1,301 | 220.690 | 232,883.06 | 248 | 57.755 | 205,878.05 | 164 | 33.764 | 225,191.27 | 481 | 108.317 | - | - | 0.000 | 225,191.27 | 481 | 108.317 |

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

## Footnotes:

${ }^{(1)}$ Changes in unit cost from FY 2022 to FY 2023 are a result of new contract award in FY 2023. FY 2022 is an option year to FY 2020 contract. The SDBII unit cost increases more than inflation from FY 2022 to FY 2023 and shows no decrease for increased quantity due to the introduction of the M-Code chips in FY 2023. FY 2023 and outyears unit cost are from the USAF Program Office Estimate. In FY 2022, in order to meet Minimum Sustaining Rate (MSR), quantity of 164 was procured. If quantities were reduced below 164, MSR would not have been met, driving increased unit cost and increased overall costs to both the Department of the Navy and Air Force.
${ }^{(2)}$ Cost Element 2.1.1 (Containers) The Department of the Navy is buying two-place containers. One container is required for every two SDB II weapons and every two Weapon Load Crew Trainers.
${ }^{(3)}$ Telemetry Instrumentation Kits (TIK) are required for annual Fleet training using Non-Combat Expenditure Allowance (NCEA) assets. FY 2022 TIK was reduced in order to meet the MSR for the All Up Round procurements. Increase from FY 2022 to FY 2023 reflects TIK required for annual Fleet training using NCEA assets.
${ }^{(4)}$ Cost Element 3.1 Government In-House (GIH) Production support is government labor in support of the production of the All Up Round to incluce engineering and logistics. FY 2022 to FY 2023 increases more than inflation to support the large increase in production quantities from FY 2022 to FY 2023.
${ }^{(5)}$ FY 2022 to FY 2023 increases more than inflation to support the large increase in production quantities from FY 2022 to FY 2023.
${ }^{(6)}$ SDB II utilizes Interim Contractor Support (ICS) strategy to sustain SDB II systems prior to Material Support Date (MSD) in accordance with Financial Management Regulations. ICS is funded within procurement appropriation prior to MSD, which is scheduled Apr 2023. ICS includes logistics support for existing and newly procured SDB II systems and funds prime contractor logistics support, field service representative, repair of repairables, and mobile training teams. FY 2022 to FY 2023 increases more than inflation to support the large increase in production quantities from FY 2022 to FY 2023.

| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  | P-1 Line Item Number / Title: <br> 2238 / Small Diameter Bomb II (SDB II) |  |  |  | Item Number / Title [DODIC]: <br> 1 / Small Diameter Bomb II (SDB II) |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) All Up Round (AUR) ${ }^{(\dagger)}$ |  | $2018{ }^{(7)}$ | Raytheon CO / Tucson AZ | C/FPIF | Eglin AFB, FL | Jan 2018 | Nov 2020 | 90 | 114,455.56 | Y |  |  |
| 1.1.1) All Up Round (AUR) ${ }^{(\dagger)}$ |  | $2019{ }^{(8)}$ | Raytheon CO / Tucson AZ | C/FPIF | Eglin AFB, FL | Jan 2019 | Feb 2021 | 750 | 103,038.67 | Y |  |  |
| 1.1.1) All Up Round (AUR) ${ }^{(\dagger)}$ |  | $2020^{(9)}$ | Raytheon CO / Tucson AZ | C/FPIF | Eglin AFB, FL | Oct 2020 | Apr 2022 | 461 | 198,944.00 | $Y$ |  |  |
| 1.1.1) All Up Round (AUR) ${ }^{(\dagger)}$ |  | $2021{ }^{(10)}$ | Raytheon CO / Tucson AZ | C/FPIF | Eglin AFB, FL | Apr 2021 | Oct 2022 | 248 | 199,000.00 | Y |  |  |
| 1.1.1) All Up Round (AUR) ${ }^{(\dagger)}$ |  | $2022{ }^{(11)}$ | Raytheon CO / Tucson AZ | C/TBD | Eglin AFB, FL | Dec 2021 | Jun 2023 | 164 | 183,803.00 | Y |  |  |
| 1.1.1) All Up Round (AUR) ${ }^{(+)}$ |  | $2023{ }^{(12)}$ | Raytheon CO / Tucson AZ | C/TBD | Eglin AFB, FL | Jan 2023 | Jul 2024 | 481 | 208,099.79 | Y |  |  |

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

## Footnotes:

${ }^{(7)}$ Raytheon Missiles and Defense, Tucson, AZ is the prime contractor for this effort. FY 2018 is Lot 4; Lots 1-3 are Air Force only procurements. USAF Lot procurements delivered prior to Navy Lot deliveries.
${ }^{(8)}$ Raytheon Missiles and Defense, Tucson, AZ is the prime contractor for this effort. FY 2019 is Lot 5; Lots 1-3 are Air Force only procurements. USAF Lot procurements delivered prior to Navy Lot deliveries.
${ }^{(9)}$ Raytheon Missiles and Defense, Tucson, AZ is the prime contractor for this effort. FY 2020 is Lot 6; Lots 1-3 are Air Force only procurements.
${ }^{(10)}$ Raytheon Missiles and Defense, Tucson, AZ is the prime contractor for this effort. FY 2021 is Lot 7; Lots 1-3 are Air Force only procurements.
${ }^{(11)}$ Raytheon Missiles and Defense, Tucson, AZ is the prime contractor for this effort. FY 2022 is Lot 8; Lots 1-3 are Air Force only procurements.
${ }^{(12)}$ Raytheon Missiles and Defense, Tucson, AZ is the prime contractor for this effort. FY 2023 is Lot 9; Lots 1-3 are Air Force only procurements.

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| $\begin{aligned} & \text { App } \\ & 150 \end{aligned}$ | ropr <br> N / | $\begin{aligned} & \text { iation / } \\ & 02 \text { / } 2 \end{aligned}$ | Budge | Acti | ivity I |  |  |  |  |  |  | ine | tem <br> all |  |  |  |  |  |  |  |  |  |  | Num nall | iam | Title ter B | $\mathrm{DO}$ | $\begin{aligned} & \text { IC]: } \\ & \text { (SD } \end{aligned}$ |  |  |
|  |  | $\begin{gathered} \text { Cost E E } \\ \text { (Units } \end{gathered}$ | $\begin{aligned} & \text { lements } \\ & \text { in Each } \end{aligned}$ |  |  |  |  |  |  |  | iscal | r 202 |  |  |  |  |  |  |  |  |  |  | Fiscal Y | ar 2021 |  |  |  |  |  | B |
|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  | nda | ear 20 |  |  |  |  |  |  |  |  | Calen | ar Year | 2021 |  |  |  | L |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|} \hline 0 & \mathrm{~F} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{O} & \# \\ \hline \end{array}$ | FY | SERVICE | PROC QTY | $\begin{array}{\|l\|} \hline \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2019 \\ \hline \end{array}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | J U N | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | A U G | $\begin{aligned} & \mathbf{s} \\ & \mathbf{E} \\ & \mathbf{P} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \text { A } \\ & \mathrm{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { Y } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \text { A } \\ & \text { G } \end{aligned}$ | S E P | A N C E |
| 1.1.1) | All Up R | Round (AUR) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | NavY | $90^{(13)}$ | 0 | 90 | - | - | - | - | - | - | - | - | - | - | - | - | - | 90 | - | - | - | - | - | - | - | - | - | - | 0 |
| 1 | 2018 | $\mathrm{AF}^{\left({ }^{(4)}\right.}$ | 570 | 0 | 570 | - | - | - | - | - | - | - | - | - | - | - | - | - | 47 | 47 | 47 | 47 | 47 | 47 | 48 | 48 | 48 | 48 | 48 | 48 |
| 1 | 2018 | Total | 660 | 0 | 660 | - | - | - | - | - | - | - | - | - | - | - | - | - | 137 | 47 | 47 | 47 | 47 | 47 | 48 | 48 | 48 | 48 | 48 | 48 |
| 1 | 2019 | NavY | $750{ }^{(14)}$ | 0 | 750 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 82 | 164 |
| 1 | 2019 | $\mathrm{AF}^{\left({ }^{(4)}\right.}$ | 510 | 0 | 510 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 42 | 42 | 42 | 42 | 42 | 42 | 43 | 43 | 172 |
| 1 | 2019 | Total | 1,260 | 0 | 1,260 | - | - | - | - | - | - | - | - | - | - | - | - | - | $\cdot$ | - | - | 114 | 114 | 114 | 114 | 114 | 114 | 115 | 125 | 336 |
| 1 | 2020 | NAVY | 461 | 0 | 461 |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | 461 |
| 1 | 2020 | $\mathrm{AF}^{\left({ }^{(4)}\right.}$ | 747 | 0 | 747 |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | 747 |
| 1 | 2020 | Total | 1,208 | 0 | 1,208 |  |  |  |  |  |  |  |  |  |  |  |  | - | $\cdot$ | - | $\cdot$ | $\cdot$ | - | - | - | - | - | - | - | 1,208 |
| 1 | 2021 | NAVY | 248 | 0 | 248 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | 248 |
| 1 | 2021 | $\mathrm{AF}^{\left({ }^{(4)}\right.}$ | 743 | 0 | 743 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | 743 |
| 1 | 2021 | Total | 991 | 0 | 991 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - | - | - | - | - | - | 991 |
| 1 | 2022 | NAVY | 164 | 0 | 164 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 164 |
| 1 | 2022 | $\mathrm{AF}^{\left({ }^{(4)}\right.}$ | 976 | 0 | 976 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 976 |
| 1 | 2022 | Total | 1,140 | 0 | 1,140 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1,140 |
| 1 | 2023 | NAVY | 481 | 0 | 481 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 481 |
| 1 | 2023 | $\mathrm{AF}^{\left({ }^{(4)}\right.}$ | 761 | 0 | 761 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 761 |
| 1 | 2023 | Total | 1,242 | 0 | 1,242 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1,242 |
|  |  |  |  |  |  | 0 c c | N O | D | J | F | M A | A P R | M A | J | J | A | $\stackrel{\text { S }}{\text { E }}$ | 0 <br> c | N | D | A | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M | A | M A | J | J | A | $\stackrel{\text { S }}{\text { E }}$ |  |
|  |  |  |  |  |  | T | v | c | N | в | R | R | Y | N | L | G | P | T | v | c | N | в | R | R | Y | N | L | G | P |  |

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| $\begin{aligned} & \text { App } \\ & 1507 \end{aligned}$ | ropr <br> N I | ation / $\text { 22 I } 2$ | Budg | et Acti | vity I |  |  | $\mathrm{bAc}$ |  |  |  | $\begin{aligned} & \text { Line } \\ & 3 / \mathrm{Sn} \end{aligned}$ | tem <br> all | Num am | $\begin{aligned} & \text { er / } \\ & \text { er B } \end{aligned}$ | itle: mb II |  |  |  |  |  |  |  | nall | iam | Title ter B | $\mathrm{DOl}$ |  |  |  |
|  |  | $\overline{\text { Cost El }}$ (Units | ements <br> in Each) |  |  |  |  |  |  |  | iscal | ar 2022 |  |  |  |  |  |  |  |  |  |  | Fiscal Y | 2023 |  |  |  |  |  | B |
|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  | endar | ar 202 |  |  |  |  |  |  |  |  | Cale | ar Year | 2023 |  |  |  | L |
|  | FY | SERVICE | PROC OTY | $\begin{gathered} \text { TO } 1 \\ \text { OCT } \\ 2021 \end{gathered}$ | $\begin{gathered} \text { SLE } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { V } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \text { A } \\ & \mathrm{N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \mathbf{A} \\ & \mathbf{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathbf{u} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \mathbf{A} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { V } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \underset{B}{\mathrm{E}} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y } \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { U } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \mathbf{A} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | A N C E |
| ${ }^{\text {1.1.1) }}$ | All Up P | Round (AUR) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | NavY | $90^{(13)}$ | 90 | 0 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | $\mathrm{AF}^{\left({ }^{(4)}\right.}$ | 570 | 522 | 48 | 48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | Total | 660 | 612 | 48 | 48 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 1 | 2019 | navy | $750{ }^{(14)}$ | 586 | 164 | 82 | 82 | - | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | $\mathrm{AF}^{\left({ }^{(1)}\right.}$ | 510 | 338 | 172 | 43 | 43 | 43 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | Total | 1,260 | 924 | 336 | 125 | 125 | 43 | 43 | - | - | - | - | - | - | - | - | $\cdot$ | $\cdot$ | - | $\cdot$ | - | - | - | - | - | - | - | - | 0 |
| 1 | 2020 | NAVY | 461 | 0 | 461 | - | - | - | - | - | - | 40 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 39 | 40 |  |  |  |  |  |  | 0 |
| 1 | 2020 | $\mathrm{AF}^{\left({ }^{(4)}\right.}$ | 747 | 0 | 747 | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 63 | 63 | 63 |  |  |  |  |  |  | 0 |
| 1 | 2020 | Total | 1,208 | 0 | 1,208 | - | - | - | - | - | - | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 102 | 103 | - | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 0 |
| 1 | 2021 | NAVY | 248 | 0 | 248 | - | - | - | - | - | - | - | - | - | - | - | - | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 22 | 0 |
| 1 | 2021 | $\mathrm{AF}^{\left({ }^{(4)}\right.}$ | 743 | 0 | 743 | - | - | - | - | - | - | - | - | - | - | - | - | 61 | 61 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 63 | 0 |
| 1 | 2021 | Total | 991 | 0 | 991 | - | - | - | - | - | - | - | - | - | $\cdot$ | - | - | 81 | 81 | 82 | 82 | 82 | 82 | 82 | 82 | 84 | 84 | 84 | 85 | 0 |
| 1 | 2022 | NAVY | 164 | 0 | 164 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | 13 | 13 | 13 | 112 |
| 1 | 2022 | $\mathrm{AF}^{\left({ }^{()}\right.}$ | 976 | 0 | 976 |  |  | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 82 | 81 | 81 | 81 | 651 |
| 1 | 2022 | Total | 1,140 | 0 | 1,140 |  |  | $\cdot$ | - | - | - | - | - | $\cdot$ | - | - | - | - | - | - | - | - | - | - | - | 95 | 94 | 94 | 94 | 763 |
| 1 | 2023 | NAVY | 481 | 0 | 481 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | 481 |
| 1 | 2023 | $\mathrm{AF}^{\left({ }^{(+)}\right.}$ | 761 | 0 | 761 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | 761 |
| 1 | 2023 | Total | 1,242 | 0 | 1,242 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\cdot$ | - | - | - | - | - | $\cdot$ | - | - | 1,242 |
|  |  |  |  |  |  | $\xrightarrow{\text { c }}$ | N | D | J A N | F E B | M A R | A $\mathbf{P}$ R | M A Y | J | ${ }_{\text {J }}^{\text {J }}$ | A | $\stackrel{\text { S }}{\text { E }}$ | $\xrightarrow{\text { c }}$ | N | D E C | J A N | $\underset{\mathrm{E}}{\mathrm{E}}$ | M A R | A P R | M A Y | J u N | $\mathrm{J}_{\mathrm{u}}$ | A | $\stackrel{\text { S }}{\text { E }}$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 2238 / Small Diameter Bomb II (SDB II) |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Small Diameter Bomb II (SDB II) |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 |
| 1 | Raytheon CO - Tucson AZ | 1,140 | 1,925 | 2,119 | 0 | 4 | 18 | 22 | 0 | 4 | 18 | 22 |

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

## Footnotes:

${ }^{(13)}$ USAF Lot procurements delivered prior to Navy Lot deliveries.
${ }^{(14)}$ USAF Lot procurements delivered prior to Navy Lot deliveries

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical

## P-1 Line Item Number / Title:

2242 / Rolling Airframe Missile (RAM) Missiles

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | ents for Cod | B Items: |  |  | ther Rela | Program E | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | 2,033 | 100 | 70 | 100 | - | 100 | 120 | 120 | 120 | 120 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 1,537.289 | 90.533 | 73.015 | 92.131 | 0.000 | 92.131 | 114.639 | 117.251 | 120.277 | 121.506 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,537.289 | 90.533 | 73.015 | 92.131 | 0.000 | 92.131 | 114.639 | 117.251 | 120.277 | 121.506 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,537.289 | 90.533 | 73.015 | 92.131 | 0.000 | 92.131 | 114.639 | 117.251 | 120.277 | 121.506 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | 756,167.73 | 905,330.00 | 1,043K | 921,310.00 | - | 921,310.00 | 955,325.00 | 977,091.67 | 1,002K | 1,013K | Continuing | Continuing |

## Description:

Description:
 radio frequency/
 improve
 intercept threats. The
 Defense System
(MK-15 MOD 31-33) which holds 11 rounds.
COOPERATIVE AGREEMENTS:
 Block 2 production
Memorandum of Understanding (MOU) was signed on 19 March 2013. Amendment 1 to the Block 2 Memorandum of Understanding (MOU) was signed 30 July 2019.
 bought to budget.
 build to print missile
 required to ensure

| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy | Date: April 2022 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical <br> Missiles | P-1 Line Item Number / Title: <br> 2242 / Rolling Airframe Missile (RAM) |  |

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

that the build to print package continues to support the system performance specs as production matures. Funding also supports procurement of key components via Life of Type buys.
[P5 / EF957 Containers]: Procures containers for transporting the GMRP and GMRP ORDALTS.
 investigation and
 an annual requirement which supports all on-going production.
[P5 / EF860 Product Acceptance]: Funds field activity product acceptance efforts.
[P5 / EF974 ILS]: Funds Integrated Logistics Support (ILS) efforts in support of production.

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

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.
Justification:
In FY 2023, the program plans to procure 100 RAM missiles and 3 Block 1 to Block 2 ORDALTs.

| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 2242 / Rolling Airframe Missile (RAM) |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Rolling Airframe Missile (RAM) |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2021 |  | FY 2022 |  | FY 2023 Base |  |  | FY 2023 OCO |  | FY 2023 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | 2,033 |  | 100 |  | 70 |  |  | 100 |  | - |  | 100 |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 1,537.289 |  | 90.533 |  | 73.015 |  |  | 131 |  | 0.000 |  | 92.131 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 1,537.289 |  | 90.533 |  | 73.015 |  |  | 131 |  | 0.000 |  | 92.131 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | ,537.289 |  | 90.533 |  | 73.015 |  |  | 131 |  | 0.000 |  | 92.131 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) |  |  |  |  |  | 756,167.73 |  | 905,330.00 |  | 1,043K |  | 921,310.00 |  |  | 921,310.00 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\underset{(\text { Each })}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |
| Hardware - EF001 Block 1 Missile Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) EF001 G\&C | 406,217.21 | 1,197 | 486.242 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - |
| 1.1.2) EF001 <br> Propulsion | 14,114.29 | 140 | 1.976 | - | - | - | - | - | - | - | - | - | - |  | - - | - | - | - |
| 1.1.3) EF001 Safe and Arm Device | 3,407.14 | 140 | 0.477 | - | - | - | - | - | - | - | - | - | - |  | - - | - | - | - |
| $\begin{aligned} & \text { 1.1.4) EF001 Ordance } \\ & \text { Pack } \end{aligned}$ | 26,600.00 | 140 | 3.724 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - |
| 1.1.5) EF001 Warhead | 11,221.43 | 140 | 1.571 | - | - | - | - | - | - | - | - | - | - | - | - - | - | - | - |
| 1.1.6) EF001 <br> Canisters | 46,371.43 | 140 | 6.492 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.1.7) EF001 Block 1 GMRP ORDALTS | 216,706.67 | 450 | 97.518 | - | - | - | - | - | - | - | - | - | - |  | - - | - | - | - |
| Subtotal: Recurring Cost | - | - | 598.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware - EF001 <br> Block 1 Missile Cost | - | - | 598.000 | - | - | - | - | - | - | - | - | - | - | - | - - | - | - | - |
| Hardware - EF002 Propulsion Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.1) EFOO2 <br> Propulsion | - | - | 12.364 | - | - | - | - | - | - | - | - | - | - | - | - - | - | - | - |
| Subtotal: Recurring Cost | - | - | 12.364 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - |
| Subtotal: Hardware - EF002 <br> Propulsion Cost | - | - | 12.364 | - | - | - | - | - | - | - | - | - | - | - | - - | - | - | - |
| Hardware - EF004 Safe and Arm Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |
| :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $1507 \mathrm{~N} / 02$ / 2 | P-1 Line Item Number / Title: <br> $2242 ~ / ~ R o l l i n g ~ A i r f r a m e ~ M i s s i l e ~(R A M) ~$ |

Date: April 2022

## Item Number / Title [DODIC]:

1 / Rolling Airframe Missile (RAM)

MDAP/MAIS Code:
ID Code (A=Service Ready, B=Not Service Ready) :
2242 / Rolling Airframe Missile (RAM)

| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| $\begin{aligned} & \hline \text { 7.1.6) EF008 } \\ & \text { Canister }^{(\dagger)} \end{aligned}$ | 51,503.59 | 836 | 43.057 | 55,183.88 | 100 | 5.518 | 64,012.28 | 70 | 4.481 | 59,860.00 | 100 | 5.986 | - | - | - | 59,860.00 | 100 | 5.986 |
| $\begin{aligned} & \text { 7.1.7) EF008 BLK } 2 \\ & \text { GMRP ORDALTS } \end{aligned}$ | 593,956.52 | 46 | 27.322 | 584,602.71 | 7 | 4.092 | 667,000.00 | 1 | 0.667 | 626,000.00 | 3 | 1.878 | - | - | - | 626,000.00 | 3 | 1.878 |
| $\begin{aligned} & \hline \text { 7.1.8) EF008 } \\ & \text { Telemeters }^{(\dagger)} \end{aligned}$ | 32,618.56 | 97 | 3.164 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7.1.9) EF008 <br> Transportation | - | - | 0.015 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 639.684 | - | - | 79.865 | - | - | 63.394 | - | - | 81.946 | - | - | - | - | - | 81.946 |


| Non Recurring Cost |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: |
| 7.2.1) EF008 BLK 2B <br> HUM $^{(+)}$ | $2,258 \mathrm{~K}$ | 1 | 2.258 |  |
| Subtotal: Non Recurring <br> Cost | - | - | 2.258 |  |
| Subtotal: Hardware - EF008 <br> Block 2 Missile Cost | - | - | 641.942 |  |

Hardware - EF850 Component Improvement/DMS Cost

| Hardware - EF850 Component Improvement/DMS Cost |  |
| :--- | :--- |
| Recurring Cost |  |


| 8.1.1) EF850 Component Improvement | - | - | 74.941 | - | - | 1.279 | - | - | 1.305 | - | - | 1.388 | - | - | - | - | - | 1.388 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8.1.2) EF850 Diminishing Manufacturing Sources ${ }^{(2)}$ | - | - | 20.082 | - | - | 2.289 | - | - | 2.361 | - | - | 2.514 | - | - | - | - | - | 2.514 |
| Subtotal: Recurring Cost | - | - | 95.023 | - | - | 3.568 | - | - | 3.666 | - | - | 3.902 | - | - | - | - | - | 3.902 |
| Subtotal: Hardware - EF850 Component Improvement/ DMS Cost | - | - | 95.023 | - | - | 3.568 | - | - | 3.666 | - | - | 3.902 | - | - | - | - | - | 3.902 |

DMS Cost

| - | - | - | - | - | - | - | - |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| - | - | - | - | - | - | - | - |
| - | - | 79.865 | - | - | 63.394 | - | - |


| - | - | - | - | - | - | - |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| - | - | - | - | - | - | - |
| 81.946 | - | - | - | - | - | 81.946 |

Hardware - EF957 Containers Cost
Recurring Cost
9.1.1) EF957

Container ${ }^{(t)(3)}$
Subtotal: Recurring Cost
Subtotal: Hardware - EF957
Containers Cost
Support - EF830 Production Support Cost


## Remarks:

 all on-going production and is independent of contract award quantities.
$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

## Footnotes:

${ }^{(1)}$ In FY 2023, the program plans to procure 100 missiles and 0 new warheads. All 100 missiles will use warheads from decommissioned Block 0 missiles.

 or lead coating to prevent this phenomenon. These components historically have recurring short time frame obsolescence issues.
${ }^{(3)}$ A container is required for every three GMRP and GMRP ORDALTs.

| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  | P-1 Line Item Number / Title: <br> 2242 / Rolling Airframe Missile (RAM) |  |  |  | Item Number / Title [DODIC]: <br> 1 / Rolling Airframe Missile (RAM) |  |  |  |  |
| Cost Elements | O C 0 | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty <br> (Each) | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 7.1.1) EF008 G\&C ${ }^{(\dagger)}$ |  | 2018 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | May 2018 | May 2020 | 120 | 525,973.57 | Y |  | Feb 2016 |
| 7.1.1) EF008 G\&C ${ }^{(\dagger)}$ |  | 2019 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2019 | Mar 2021 | 108 | 556,460.60 | Y |  | Feb 2016 |
| 7.1.1) EF008 G\&C ${ }^{(\dagger)}$ |  | 2020 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2020 | Mar 2022 | 120 | 536,484.71 | Y |  | Feb 2018 |
| 7.1.1) EF008 G\&C ${ }^{(\dagger)}$ |  | 2021 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2021 | Mar 2023 | 100 | 547,214.39 | Y |  | Feb 2018 |
| 7.1.1) EF008 G\&C ${ }^{(\dagger)}$ |  | 2022 | Raytheon CO / Tucson, AZ | SS / FFP | NAVSEA | May 2022 | May 2024 | 70 | 651,285.71 | Y |  | Dec 2020 |
| 7.1.1) EF008 G\&C ${ }^{(\dagger)}$ |  | 2023 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2023 | Mar 2025 | 100 | 597,990.00 | Y |  | Dec 2020 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2012 | Raytheon CO / Tuscon, AZ | SS / FFP | NAVSEA | Jul 2012 | Jul 2014 | 61 | 75,000.00 | Y |  | Feb 2011 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2013 | Raytheon CO / Tuscon, AZ | SS / FFP | NAVSEA | Dec 2012 | Dec 2014 | 61 | 76,278.69 | Y |  | Feb 2011 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2014 | Raytheon CO / Tuscon, AZ | SS/FFP | NAVSEA | Jun 2014 | Jun 2016 | 66 | 83,151.52 | Y |  | Feb 2013 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2015 | Raytheon CO / Tuscon, AZ | SS/FFP | NAVSEA | Feb 2015 | Feb 2017 | 90 | 68,606.49 | Y |  | Feb 2013 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2016 | Raytheon CO / Tuscon, AZ | SS/FFP | NAVSEA | Dec 2015 | Dec 2017 | 90 | 78,723.03 | Y |  | Feb 2015 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2017 | Raytheon CO / Tuscon, AZ | SS/FFP | NAVSEA | Dec 2016 | Dec 2018 | 120 | 66,332.00 | Y |  | Feb 2015 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2018 | Raytheon CO / Tuscon, AZ | SS/FFP | NAVSEA | May 2018 | May 2020 | 120 | 73,973.57 | Y |  | Feb 2016 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2019 | Raytheon CO / Tuscon, AZ | SS/FFP | NAVSEA | Mar 2019 | Mar 2021 | 108 | 73,556.90 | Y |  | Feb 2016 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2020 | Raytheon CO / Tuscon, AZ | SS/FFP | NAVSEA | Mar 2020 | Mar 2022 | 120 | 71,991.67 | Y |  | Feb 2018 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2021 | Raytheon CO / Tuscon, AZ | SS/FFP | NAVSEA | Mar 2021 | Mar 2023 | 100 | 76,953.59 | Y |  | Feb 2018 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2022 | Raytheon CO / Tuscon, AZ | SS/FFP | NAVSEA | May 2022 | May 2024 | 70 | 89,728.57 | Y |  | Dec 2020 |
| 7.1.2) EF008 Propulsion ${ }^{(\dagger)}$ |  | 2023 | Raytheon CO / Tuscon, AZ | SS/FFP | NAVSEA | Mar 2023 | Mar 2025 | 100 | 83,120.00 | Y |  | Dec 2020 |
| 7.1.3) EF008 Safe and Arm Device |  | 2012 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Jul 2012 | Jul 2014 | 61 | 15,000.00 | Y |  | Feb 2011 |
| 7.1.3) EF008 Safe and Arm Device |  | 2013 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2012 | Dec 2014 | 61 | 15,262.30 | Y |  | Feb 2011 |
| 7.1.3) EF008 Safe and Arm Device |  | 2014 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Jun 2014 | Jun 2016 | 66 | 16,621.21 | Y |  | Feb 2013 |
| 7.1.3) EF008 Safe and Arm Device |  | 2015 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Feb 2015 | Feb 2017 | 90 | 6,472.31 | Y |  | Feb 2013 |
| 7.1.3) EF008 Safe and Arm Device |  | 2016 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2015 | Dec 2017 | 90 | 7,307.52 | Y |  | Feb 2015 |
| 7.1.3) EF008 Safe and Arm Device |  | 2017 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2016 | Dec 2018 | 120 | 7,299.69 | Y |  | Feb 2015 |
| 7.1.3) EF008 Safe and Arm Device |  | 2018 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | May 2018 | May 2020 | 115 | 6,000.00 | Y |  | Feb 2016 |
| 7.1.3) EF008 Safe and Arm Device |  | 2019 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2019 | Mar 2021 | 108 | 6,000.00 | Y |  | Feb 2016 |
| 7.1.3) EF008 Safe and Arm Device |  | 2020 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2020 | Mar 2022 | 120 | 6,125.00 | Y |  | Feb 2018 |
| 7.1.3) EF008 Safe and Arm Device |  | 2021 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2021 | Mar 2023 | 100 | 6,215.00 | Y |  | Feb 2018 |
| 7.1.3) EF008 Safe and Arm Device |  | 2022 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | May 2022 | May 2024 | 70 | 7,209.00 | Y |  | Dec 2020 |
| 7.1.3) EF008 Safe and Arm Device |  | 2023 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2023 | Mar 2025 | 100 | 6,750.00 | Y |  | Dec 2020 |

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  | P-1 Line Item Number / Title: <br> 2242 / Rolling Airframe Missile (RAM) |  |  |  | Item Number / Title [DODIC]: <br> 1 / Rolling Airframe Missile (RAM) |  |  |  |  |
| Cost Elements | O C 0 0 | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty <br> (Each) | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 7.1.4) EF008 Ordnance Pack ${ }^{(\dagger)}$ |  | 2012 | Raytheon CO / Tucson, AZ | SS / FFP | NAVSEA | Jul 2012 | Jul 2014 | 61 | 48,000.00 | Y |  | Feb 2011 |
| 7.1.4) EF008 Ordnance Pack ${ }^{(\dagger)}$ |  | 2013 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2012 | Dec 2014 | 61 | 48,819.67 | Y |  | Feb 2011 |
| 7.1.4) EF008 Ordnance Pack ${ }^{(\dagger)}$ |  | 2014 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Jun 2014 | Jun 2016 | 66 | 53,212.12 | Y |  | Feb 2013 |
| 7.1.4) EF008 Ordnance Pack ${ }^{(\dagger)}$ |  | 2015 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Feb 2015 | Feb 2017 | 90 | 47,247.87 | Y |  | Feb 2013 |
| 7.1.4) EF008 Ordnance Pack ${ }^{(\dagger)}$ |  | 2016 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2015 | Dec 2017 | 90 | 54,022.22 | Y |  | Feb 2015 |
| 7.1.4) EF008 Ordnance Pack ${ }^{(\dagger)}$ |  | 2017 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2016 | Dec 2018 | 120 | 50,433.07 | Y |  | Feb 2015 |
| 7.1.4) EF008 Ordnance Pack ${ }^{(\dagger)}$ |  | 2018 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | May 2018 | May 2020 | 115 | 47,008.69 | Y |  | Feb 2016 |
| 7.1.4) EF008 Ordnance Pack ${ }^{(\dagger)}$ |  | 2019 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2019 | Mar 2021 | 108 | 47,008.69 | Y |  | Feb 2016 |
| 7.1.4) EF008 Ordnance Pack ${ }^{(\dagger)}$ |  | 2021 | Raytheon CO / Tucson, AZ | SS / FFP | NAVSEA | Mar 2021 | Mar 2023 | 100 | 48,992.00 | Y |  | Feb 2018 |
| 7.1.4) EF008 Ordnance Pack ${ }^{(\dagger)}$ |  | 2022 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | May 2022 | May 2024 | 70 | 56,971.43 | Y |  | Dec 2020 |
| 7.1.4) EF008 Ordnance Pack ${ }^{(\dagger)}$ |  | 2023 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2023 | Mar 2025 | 100 | 52,960.00 | Y |  | Dec 2020 |
| 7.1.5) EF008 Warhead |  | 2012 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Jul 2012 | Jul 2014 | 61 | 14,508.20 | Y |  | Feb 2011 |
| 7.1.5) EF008 Warhead |  | 2013 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2012 | Dec 2014 | 61 | 14,754.10 | Y |  | Feb 2011 |
| 7.1.5) EF008 Warhead |  | 2014 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Jun 2014 | Jun 2016 | 66 | 16,075.76 | Y |  | Feb 2013 |
| 7.1.5) EF008 Warhead |  | 2015 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Feb 2015 | Feb 2017 | 90 | 25,242.00 | Y |  | Feb 2013 |
| 7.1.5) EF008 Warhead |  | 2016 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2015 | Dec 2017 | 90 | 28,765.76 | Y |  | Feb 2015 |
| 7.1.5) EF008 Warhead |  | 2017 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2016 | Dec 2018 | 120 | 28,734.91 | Y |  | Feb 2015 |
| 7.1.5) EF008 Warhead |  | 2018 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | May 2018 | May 2020 | 187 | 21,310.16 | Y |  | Feb 2016 |
| 7.1.5) EF008 Warhead |  | 2021 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2021 | Mar 2023 | 100 | 23,182.09 | Y |  | Feb 2018 |
| 7.1.5) EF008 Warhead |  | 2022 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2022 | Mar 2024 | 70 | 26,891.00 | Y |  | Dec 2020 |
| 7.1.6) EF008 Canister ${ }^{(\dagger)}$ |  | 2012 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Jul 2012 | Jul 2014 | 61 | 60,000.00 | Y |  | Feb 2011 |
| 7.1.6) EF008 Canister ${ }^{(+)}$ |  | 2013 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2012 | Dec 2014 | 61 | 57,786.89 | Y |  | Feb 2011 |
| 7.1.6) EF008 Canister ${ }^{(\dagger)}$ |  | 2014 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Jun 2014 | Jun 2016 | 66 | 66,515.15 | Y |  | Feb 2013 |
| 7.1.6) EF008 Canister ${ }^{(\dagger)}$ |  | 2015 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Feb 2015 | Feb 2017 | 90 | 39,481.09 | Y |  | Feb 2013 |
| 7.1.6) EF008 Canister ${ }^{(\dagger)}$ |  | 2016 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2015 | Dec 2017 | 90 | 44,887.43 | Y |  | Feb 2015 |
| 7.1.6) EF008 Canister ${ }^{(\dagger)}$ |  | 2017 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2016 | Dec 2018 | 120 | 44,233.30 | Y |  | Feb 2015 |
| 7.1.6) EF008 Canister ${ }^{(\dagger)}$ |  | 2018 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | May 2018 | May 2020 | 120 | 53,042.00 | Y |  | Feb 2016 |
| 7.1.6) EF008 Canister ${ }^{(\dagger)}$ |  | 2019 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2019 | Mar 2021 | 108 | 53,000.00 | Y |  | Feb 2016 |
| 7.1.6) EF008 Canister ${ }^{(\dagger)}$ |  | 2020 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2020 | Mar 2022 | 120 | 54,101.85 | Y |  | Feb 2018 |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  | P-1 Line Item Number / Title: <br> 2242 / Rolling Airframe Missile (RAM) |  |  |  | Item Number / Title [DODIC]: <br> 1 / Rolling Airframe Missile (RAM) |  |  |  |  |
| Cost Elements | O c 0 | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 7.1.6) EF008 Canister ${ }^{(t)}$ |  | 2021 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2021 | Mar 2023 | 100 | 55,183.88 | Y |  | Feb 2018 |
| 7.1.6) EF008 Canister ${ }^{(t)}$ |  | 2022 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | May 2022 | May 2024 | 70 | 64,012.28 | Y |  | Dec 2020 |
| 7.1.6) EF008 Canister ${ }^{(t)}$ |  | 2023 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2023 | Mar 2025 | 100 | 59,860.00 | Y |  | Dec 2020 |
| 7.1.7) EF008 BLK 2 GMRP ORDALTS ${ }^{(\dagger)}$ |  | 2018 | Raytheon CO / Tucson AZ | SS/FFP | NAVSEA | May 2018 | May 2020 | 12 | 576,665.00 | Y |  | Feb 2016 |
| $\begin{aligned} & \text { 7.1.7) EF008 BLK } 2 \text { GMRP } \\ & \text { ORDALTS }{ }^{(\dagger)} \end{aligned}$ |  | 2019 | Raytheon CO / Tucson AZ | SS /FFP | NAVSEA | Mar 2019 | Mar 2021 | 9 | 680,000.00 | Y |  | Feb 2017 |
| 7.1.7) EF008 BLK 2 GMRP ORDALTS ${ }^{(+)}$ |  | 2020 | Raytheon CO / Tucson AZ | SS/FFP | NAVSEA | Mar 2020 | Mar 2022 | 25 | 571,283.00 | Y |  | Feb 2018 |
| 7.1.7) EF008 BLK 2 GMRP ORDALTS ${ }^{(\dagger)}$ |  | 2021 | Raytheon CO / Tucson AZ | SS/FFP | NAVSEA | Mar 2021 | Mar 2023 | 7 | 584,602.71 | Y |  | Feb 2018 |
| 7.1.7) EF008 BLK 2 GMRP ORDALTS ${ }^{(\dagger)}$ |  | 2022 | Raytheon CO / Tucson AZ | SS/FFP | NAVSEA | May 2022 | May 2024 | 1 | 667,000.00 | Y |  | Dec 2020 |
| 7.1.7) EF008 BLK 2 GMRP ORDALTS ${ }^{(+)}$ |  | 2023 | Raytheon CO / Tucson AZ | SS/FFP | NAVSEA | Mar 2023 | Mar 2025 | 3 | 626,000.00 | Y |  | Dec 2020 |
| 7.1.8) EF008 Telemeters |  | 2015 | NAWC China Lake / China Lake, CA | WR | CA | Feb 2015 | May 2016 | 35 | 25,992.00 | Y |  |  |
| 7.1.8) EF008 Telemeters |  | 2016 | NAWC China Lake / China Lake, CA | WR | CA | Oct 2015 | Jan 2017 | 24 | 31,250.00 | Y |  |  |
| 7.1.8) EF008 Telemeters |  | 2017 | NAWC China Lake / China Lake, CA | WR | CA | Oct 2016 | Jan 2018 | 33 | 41,000.00 | Y |  |  |
| 7.2.1) EF008 BLK 2B HUM |  | 2018 | Raytheon CO / Tucson AZ | SS/FFP | NAVSEA | May 2018 | May 2020 | 1 | 2,258K | Y |  | Feb 2016 |
| 9.1.1) EF957 Container |  | 2014 | NSWC Indian Head / Picatinny, NJ | C/FFP | NJ | Feb 2015 | Aug 2015 | 108 | 6,815.00 | Y |  | Nov 2014 |
| 9.1.1) EF957 Container |  | 2015 | NSWC Indian Head / Picatinny, NJ | C/FFP | NJ | Jul 2015 | Jan 2016 | 93 | 6,967.74 | Y |  | Nov 2014 |
| 9.1.1) EF957 Container |  | 2018 | NSWC Indian Head / Picatinny, NJ | C/FFP | NJ | Jan 2018 | Jul 2018 | 20 | 15,525.00 | Y |  | Jun 2017 |
| 9.1.1) EF957 Container |  | 2019 | NSWC Indian Head / Picatinny, NJ | C/FFP | NJ | Jul 2019 | Jan 2020 | 48 | 10,875.00 | Y |  | Jun 2017 |
| 9.1.1) EF957 Container |  | 2020 | NSWC Indian Head / Picatinny, NJ | C/FFP | NJ | Jul 2020 | Jan 2021 | 49 | 12,423.96 | Y |  | Apr 2020 |
| 9.1.1) EF957 Container |  | 2021 | NSWC Indian Head / Picatinny, NJ | C/FFP | NJ | Mar 2021 | Sep 2021 | 36 | 12,660.02 | Y |  | Jan 2021 |
| 9.1.1) EF957 Container |  | 2022 | NSWC Indian Head / Picatinny, NJ | C/FFP | NJ | Apr 2022 | Oct 2022 | 37 | 12,913.00 | Y |  | Jan 2022 |
| 9.1.1) EF957 Container |  | 2023 | NSWC Indian Head / Picatinny, NJ | C/FFP | NJ | Mar 2023 | Sep 2023 | 35 | 13,170.73 | Y |  | Jan 2023 |

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

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Rolling Airframe Missile (RAM) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2242 / Rolling Airframe Missile (RAM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2012 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2013 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \hline \text { B } \\ & \text { A } \\ & \text { L } \\ & A \\ & \text { N } \\ & \text { E } \end{aligned}$ |
|  | FY | SERVICE | PROC QTY | ACCEPT <br> PRIOR <br> TOO <br> OCT <br> OCT <br> 2011 | $\begin{gathered} \mathrm{BAL} \\ \text { DUE } \\ \text { AS OF } \\ 1 \mathrm{OCT} \end{gathered}$ |  |  |  | Calendar Year 2012 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2013 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | - | N | D E C | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\underset{\mathrm{E}}{\mathrm{E}}$ | M <br>  <br> R | A P R | M A Y | J U | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \end{aligned}$ | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { o } \\ & \text { V } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A <br> P <br> R | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y } \end{aligned}$ | J N | J u L | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 7.1.6) EF008 Canister |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 2012 | Navy | 61 | 0 | 61 |  |  |  |  |  |  |  |  |  | A - |  | - | - | - | - | - | - | - | - | - |  | - | - | - | 61 |
| 4 | 2013 | NAVY | 61 | 0 | 61 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - |  | - | - | - | 61 |
| 4 | 2014 | NavY | 66 | 0 | 66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 66 |
| 4 | 2015 | NAVY | 90 | 0 | 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 90 |
| 4 | 2016 | NAVY | 90 | 0 | 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 90 |
| 4 | 2017 | Navy | 120 | 0 | 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| 4 | 2018 | NAVY | 120 | 0 | 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| 4 | 2019 | NAVY | 108 | 0 | 108 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 108 |
| 4 | 2020 | NAVY | 120 | 0 | 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| 4 | 2021 | NAVY | 100 | 0 | 100 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 100 |
| 4 | 2022 | NAVY | $70^{(7)}$ | 0 | 70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 70 |
| 4 | 2023 | NAVY | 100 | 0 | 100 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 100 |
| 7.1.7) EF008 BLK 2 GMRP ORDALTS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 2018 | Navy | 12 | 0 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12 |
| 5 | 2019 | NavY | 9 | 0 | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9 |
| 5 | 2020 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25 |
| 5 | 2021 | NAVY | 7 | 0 | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7 |
| 5 | 2022 | Navy | $1^{(8)}$ | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| 5 | 2023 | NAVY | 3 | 0 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
|  |  |  |  |  |  | - | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A P R | M A Y | J U N | J | A | S E P | O c T | N | D E C | J A N | F E B | M A R | A P R | M A Y | J | J | A U G | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Rolling Airframe Missile (RAM) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2242 / Rolling Airframe Missile (RAM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2014 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2015 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \hline \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2014 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2015 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{gathered} \text { KO } \\ \text { TO } \\ \text { OCT } \\ 2013 \end{gathered}$ | $\begin{gathered} \text { BAL } \\ \text { DSE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { v } \end{aligned}$ | D E C | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | F E B | $\begin{aligned} & \text { M } \\ & \text { A } \\ & R \end{aligned}$ | A P R | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathbf{U} \\ & \mathbf{N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathbf{U} \\ & \mathrm{G} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { o } \\ & \text { V } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | J N | J u L | A U G | S E P |  |
| 7.1.6) EF008 Canister |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 2012 | Navy | 61 | 0 | 61 | - | - | - | - | - | - | - | - | - | 5 |  | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |  | 6 |  |  |  | 0 |
| 4 | 2013 | NAVY | 61 | 0 | 61 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 5 | 5 | 5 | 5 |  | 5 | 5 | 5 | 5 | 11 |
| 4 | 2014 | NAVY | 66 | 0 | 66 |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | 66 |
| 4 | 2015 | NAVY | 90 | 0 | 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | 90 |
| 4 | 2016 | NAVY | 90 | 0 | 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 90 |
| 4 | 2017 | Navy | 120 | 0 | 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| 4 | 2018 | NAVY | 120 | 0 | 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| 4 | 2019 | NAVY | 108 | 0 | 108 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 108 |
| 4 | 2020 | NAVY | 120 | 0 | 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| 4 | 2021 | NAVY | 100 | 0 | 100 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 100 |
| 4 | 2022 | NAVY | $70^{(7)}$ | 0 | 70 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 70 |
| 4 | 2023 | NAVY | 100 | 0 | 100 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 100 |
| 7.1.7) EF008 BLK 2 GMRP ORDALTS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 2018 | Navy | 12 | 0 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12 |
| 5 | 2019 | NAVY | 9 | 0 | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9 |
| 5 | 2020 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25 |
| 5 | 2021 | NAVY | 7 | 0 | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7 |
| 5 | 2022 | Navy | $1^{(8)}$ | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
| 5 | 2023 | NAVY | 3 | 0 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
|  |  |  |  |  |  | O c c | N O V | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A P R | M A Y | J | ${ }_{\text {J }}$ | A | S E P | O c T | N | D E c | J A N | F E B | M A R | A P R | M A Y | J | ${ }_{\text {J }}$ | A | S E P |  |

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|  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 2242 / Rolling Airframe Missile (RAM) |  |  |  |  | Item Number / Title [DODIC]: 1 / Rolling Airframe Missile (RAM) |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ |  | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Raytheon CO - Tucson, AZ | 100 | 240 | 360 | 0 | 3 | 24 | 27 | 0 | 3 | 24 | 27 |
| 2 | Raytheon CO - Tuscon, AZ | 100 | 240 | 360 | 0 | 3 | 24 | 27 | 0 | 3 | 24 | 27 |
| 3 | Raytheon CO - Tucson, AZ | 100 | 240 | 360 | 0 | 3 | 24 | 27 | 0 | 3 | 24 | 27 |
| 4 | Raytheon CO - Tucson, AZ | 100 | 240 | 360 | 0 | 3 | 24 | 27 | 0 | 2 | 24 | 26 |
|  | Raytheon CO - Tucson AZ |  | 240 | 439 | 0 | 0 | 24 | 24 | 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).

## Footnotes:

${ }^{(4)}$ MSR Leverages Cooperative Program (Germany) and other Foreign Military Sales procurements.
${ }^{(5)}$ MSR Leverages Cooperative Program (Germany) and other Foreign Military Sales procurements.
${ }^{(6)}$ MSR Leverages Cooperative Program (Germany) and other Foreign Military Sales procurements.
${ }^{(7)}$ MSR Leverages Cooperative Program (Germany) and other Foreign Military Sales procurements.
${ }^{(8)}$ MSR assumes ORDALT procurement is in conjunction with procurement of a minimum 100 GMRP 's.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ments for Cod | B Items: N/A |  |  | Other Rela | Program E | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\text { FY } 2023$ Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | 497 | 150 | 153 | 293 | - | 293 | 269 | 269 | 325 | 326 | 3,734 | 6,016 |
| Gross/Weapon System Cost (\$ in Millions) | 126.002 | 43.647 | 46.702 | 78.395 | 0.000 | 78.395 | 80.270 | 82.184 | 84.361 | 85.152 | 1,066.716 | 1,693.429 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 126.002 | 43.647 | 46.702 | 78.395 | 0.000 | 78.395 | 80.270 | 82.184 | 84.361 | 85.152 | 1,066.716 | 1,693.429 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |
| Total Obligation Authority (\$ in Millions) | 126.002 | 43.647 | 46.702 | 78.395 | 0.000 | 78.395 | 80.270 | 82.184 | 84.361 | 85.152 | 1,066.716 | 1,693.429 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 0.833 | 0.846 | 1.271 | - | 1.271 | 1.207 | 1.182 | 1.389 | 1.429 | Continuing | Continuing |
| Flyaway Unit Cost (\$ in Dollars) | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | 253,525.15 | 290,980.00 | 305,241.83 | 267,559.73 | - | 267,559.73 | 298,401.49 | 305,516.73 | 259,572.31 | 261,202.45 | 285,676.49 | 281,487.53 |

## Description:

The Joint Air-to-Ground Missile (JAGM) is an air-launched missile system that will incorporate multi-mode seeker technology thus providing advanced Line-of-Sight and Beyond-Line-of-Sight precision fire andforget seeker targeting capabilities resulting in increased lethality against soft, hardened, moving, stationary, land and maritime threats. JAGM improves the warfighter's capability in adverse weather, day or night, and in obscured/countermeasure environments. The JAGM Increment 1 system will replace aviation-launched, Tube-launched, Optically-tracked, Wire-guided (TOW) missile, and Helicopter Launched Fire-\&-Forget (HELLFIRE) Missile Systems. JAGM is an Army-led joint program that addresses rotary wing and unmanned aerial vehicle requirements. The Department of The Navy threshold platform is the AH-1Z. The JAGM system includes missile, trainers, containers, support equipment, and software modifications to the M-299 launcher. Missile configurations include the JAGM Tactical Missile, Captive Air Training Missile and Air Training Missile. JAGM procurement funding supports the entire JAGM system to include resolution of obsolescence, safety, reliability, weapon integration activities, test sets, engineering services, facilitization, production ramp-up activities and production issues.


## *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:

FY2023 funding supports the procurement of 293 JAGM All Up Rounds (AURs), 7 Captive Air Training Missiles (CATMs), and production related engineering and logistics support.

 procurement funding. In addition, the ramp up in quantities in FY23 supports the joint service quantities in order to meet the Minimum Sustaining Rate.

Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 2
## P-1 Line Item Number / Title 2248 / Joint Air Ground Missile (JAGM)

## Date: April 2022

## Item Number / Title [DODIC]:

1 / Joint Air Ground Missile (JAGM)

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

| Resource Summary |  |  |  |  | Prior Years |  |  | FY 2021 |  | FY 2022 |  | FY 2023 Base |  |  | FY 2023 OCO |  | FY 2023 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | 497 |  | 150 |  | 153 |  |  | 293 |  | - |  | 293 |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 126.002 |  | 43.647 |  | 46.702 |  |  | 395 |  | 0.000 |  | 78.395 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 126.002 |  | 43.647 |  | 46.702 |  |  | 395 |  | 0.000 |  | 78.395 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 126.002 |  | 43.647 |  | 46.702 |  |  | 395 |  | 0.000 |  | 78.395 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | 0.833 |  | 0.846 |  |  | 271 |  | - |  | 1.271 |
| Gross/Weapon System Unit Cost (\$ in Dollars) |  |  |  |  | - 253,525.15 |  |  | 290,980.00 |  | 305,241.83 |  | 267,559.73 |  |  | 267,559.73 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | Qty (Each) | Total Cost <br> (\$ M) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) (JG010) JAGM All-Up-Round (AUR) ${ }^{(t)}$ (1) | 194,406.44 | 497 | 96.620 | 234,491.69 | 150 | 35.174 | 242,821.00 | 153 | 37.152 | 225,376.00 | 293 | 66.035 | - |  | - | 225,376.00 | 293 | 66.035 |
| 1.1.3) (JG301) Captive Air Training Missile ${ }^{(\dagger)}$ (2) | 188,000.00 | 6 | 1.128 | 213,575.00 | 4 | 0.854 | 217,846.00 | 6 | 1.307 | 222,203.00 | 7 | 1.555 | - |  | - | 222,203.00 | 7 | 1.555 |
| Subtotal: Recurring Cost | - | - | 97.748 | - | - | 36.028 | - | - | 38.459 | - | - | 67.590 | - |  | - - | - | - | 67.590 |
| Subtotal: Hardware Cost | - | - | 97.748 | - | - | 36.028 | - | - | 38.459 | - | - | 67.590 | - |  | - - | - | - | 67.590 |
| Support - JAGM Support Costs Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1) (JG860) Integrated Logistics Support | - | - | 1.685 | - | - | 0.596 | - | - | 0.705 | - | - | 0.600 | - |  | - | - | - | 0.600 |
| 2.2) (JG850) Production Engineering Support | - | - | 8.429 | - | - | 3.059 | - | - | 3.308 | - | - | 2.769 | - |  | - - | - | - | 2.769 |
| 2.4) (JG851) Other Production Support, Army (3) | - | - | 14.191 | - | - | 2.522 | - | - | 2.692 | - | - | 4.731 | - |  | - | - | - | 4.731 |
| 2.5) (JG852) Other Production Support, Contractor ${ }^{(4)}$ | - | - | 3.949 | - | - | 1.442 | - | - | 1.538 | - | - | 2.705 | - |  | - | - | - | 2.705 |
| Subtotal: Support - JAGM Support Costs Cost | - | - | 28.254 | - | - | 7.619 | - | - | 8.243 | - | - | 10.805 | - |  | - - | - | - | 10.805 |
| Gross/Weapon System Cost | 253,525.15 | 497 | 126.002 | 290,980.00 | 150 | 43.647 | 305,241.83 | 153 | 46.702 | 267,559.73 | 293 | 78.395 | - |  | 0.000 | 267,559.73 | 293 | 78.395 |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 | P-1 Line Item Number / Title: 2248 / Joint Air Ground Missile (JAGM) | Item Number / Title [DODIC]: <br> 1 / Joint Air Ground Missile (JAGM) |
| ID Code (A=Service Ready, B=Not Service Ready) : |  | MDAP/MAIS Code: |
| ${ }^{(\dagger)}$ indicates the presence of a P-5a |  |  |
| ${ }^{(1)}$ (JG010) All Up Round (AUR) unit cost is projected by the Army based on total procurement between all services, resulting in a fluctuation in unit cost from year to year. FY 2023 unit cost decreased due to an increase in total projected quantities across all services. |  |  |
| ${ }^{(2)}$ (JG301) Captive Air Training Missiles unit cost will fluctuate according to total procurement between all services. |  |  |
| ${ }^{(3)}$ (JG851) "Other Production Support, Army" is for a program management administrative fee for execution of JAGM production and deliveries. These costs include program office management costs, support of program reviews, travel, system safety and hazard analysis, public release and security activities, and configuration management. Funding fluctuates based on Army requirements and the total procurement buy per year. Increase in FY23 is due to an increase in the overall quantities being procured. |  |  |
| ${ }^{(4)}$ (JG852) "Other Production Support, Contractor" provides funding for the support fee for execution of JAGM production and deliveries. These costs may include resolution of obsolescence, end of-life buys, safety, insensitive munitions, reliability, weapon integration activities, test sets, engineering changes, modifications, facilitation, logistics support and analysis, production ramp-up activities, and other production issues. Funding fluctuates based on Army requirements and the total procurement buy per year. Increase in FY23 is due to an increase in the overall quantities being procured. |  |  |

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$1507 \mathrm{~N} / 02 \text { / } 2$ |  |  |  | P-1 Line Item Number / Title: 2248 / Joint Air Ground Missile (JAGM) |  |  |  | Item Number / Title [DODIC]: <br> 1 / Joint Air Ground Missile (JAGM) |  |  |  |  |
| 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 | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) (JG010) JAGM All-Up-Round $(A \cup R)^{(\dagger)}$ |  | 2019 | Lockheed Martin / Orlando, FL | C/FPIF | Huntsville | Dec 2019 | Apr 2022 | 91 | 223,569.00 | Y |  | Aug 2018 |
| 1.1.1) (JG010) JAGM All-Up-Round $(A \cup R)^{(\dagger)}$ |  | 2020 | Lockheed Martin / Orlando, FL | C/FPIF | Huntsville | Mar 2021 | May 2023 | 307 | 201,368.00 | Y |  | Jun 2019 |
| 1.1.1) (JG010) JAGM All-Up-Round $(A \cup R)^{(\dagger)}$ |  | 2021 | Lockheed Martin / Orlando, FL | SS/FPIF | Huntsville | May 2021 | Mar 2024 | 150 | 234,491.69 | Y |  | Jun 2019 |
| 1.1.1) (JG010) JAGM All-Up-Round $(A \cup R)^{(\dagger)}$ |  | 2022 | Lockheed Martin / Orlando, FL | SS/FPIF | Huntsville | Sep 2022 | Oct 2024 | 153 | 242,821.00 | Y |  | Sep 2020 |
| 1.1.1) (JG010) JAGM All-Up-Round $(A \cup R)^{(\dagger)}$ |  | 2023 | Lockheed Martin / Orlando, FL | SS/FPIF | Huntsville | Mar 2023 | Jul 2025 | 293 | 225,376.00 | Y |  | Sep 2020 |
| 1.1.3) (JG301) Captive Air Training Missile |  | 2020 | Lockheed Martin / Orlando, FL | C/FPIF | Huntsville | Nov 2020 | Aug 2022 | 6 | 188,042.00 | Y |  | Jan 2019 |
| 1.1.3) (JG301) Captive Air Training Missile |  | 2021 | Lockheed Martin / Orlando, FL | SS/FPIF | Huntsville | May 2021 | Sep 2023 | 4 | 213,575.00 | Y |  | Jun 2019 |
| 1.1.3) (JG301) Captive Air Training Missile |  | 2022 | Lockheed Martin / Orlando, FL | SS/FPIF | Huntsville | May 2022 | Sep 2024 | 6 | 217,846.00 | Y |  | Sep 2020 |
| 1.1.3) (JG301) Captive Air Training Missile |  | 2023 | Lockheed Martin / Orlando, FL | SS/FPIF | Huntsville | Dec 2022 | Apr 2025 | 7 | 222,203.00 | Y |  | Sep 2020 |

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

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: $1507 \mathrm{~N} / 02$ / 2 |  |  |  |  | P-1 Line Item Number / Title: 2248 / Joint Air Ground Missile (JAGM) |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Joint Air Ground Missile (JAGM) |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | Reo |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 | MAX For 2023 | ALT Prior to Oct 1 | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 |  | $\begin{aligned} & \text { Manufacturing } \\ & \text { PLT } \end{aligned}$ | Total After Oct 1 |
| 1 | Lockheed Martin - Orlando, FL | 600 | 1,200 | 1,200 | 5 | 12 | 24 | 36 | 5 | 12 | 24 | 36 |

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

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

| 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 2021 | FY 2022 | $\text { FY } 2023$ <br> Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | 6,834 | 95 | 120 | 110 | - | 110 | - | - | - | - | - | 7,159 |
| Gross/Weapon System Cost (\$ in Millions) | 1,056.381 | 5.572 | 7.557 | 6.603 | 0.000 | 6.603 | 0.000 | 0.000 | 0.000 | 0.000 | - | 1,076.113 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,056.381 | 5.572 | 7.557 | 6.603 | 0.000 | 6.603 | 0.000 | 0.000 | 0.000 | 0.000 | - | 1,076.113 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,056.381 | 5.572 | 7.557 | 6.603 | 0.000 | 6.603 | 0.000 | 0.000 | 0.000 | 0.000 | - | 1,076.113 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | 131,724.32 | 53,010.53 | 60,483.33 | 56,572.73 | - | 56,572.73 | - | - | - | - | - | 128,330.91 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | 154,577.26 | 58,652.63 | 62,975.00 | 60,027.27 | - | 60,027.27 | - | - | - | - | - | 150,316.11 |

## Description:





 for training on ranges that do not allow live warheads, and to preserve tactical missiles for use in combat. Conversions from one variant to another are done on an as needed basis.

Prior year funding includes Hellfire, Viper Strike, and Griffin.


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

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

## Justification:

 support of Over-The-Horizon Demand.

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 2254 / Hellfire |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 1 / Hellfire Missile |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2021 |  | FY 2022 |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | 6,834 |  | 95 |  | 120 |  |  | 110 |  |  | - |  | 110 |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | , 056.381 |  | 5.572 |  | 7.557 |  |  | 603 |  |  | 0.000 |  | 6.603 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | , 056.381 |  | 5.572 |  | 7.557 |  |  | 603 |  |  | 0.000 |  | 6.603 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | , 056.381 |  | 5.572 |  | 7.557 |  |  | 603 |  |  | 0.000 |  | 6.603 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  |  | - |  | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) |  |  |  |  |  | 154,577.26 |  | 58,652.63 |  | 62,975.00 |  | 60,027.27 |  |  | 60,027.27 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ |  | Total Cost (\$ M) | Unit Cost (\$) | Qty (Each) | Total Cost <br> (\$ M) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) F6010 Hellfire All-Up-Rounds (AURs) | 135,013.35 | 5,992 | 809.000 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - |
| 1.1.2) F6300 Air Training Missiles ${ }^{(\dagger)(1)}$ | 56,662.37 | 853 | 48.333 | 53,015.78 | 95 | 5.036 | 55,816.66 | 120 | 6.698 | 56,572.73 | 110 | 6.223 | - |  | - | - | 56,572.73 | 石 110 | 6.223 |
| $\begin{aligned} & \text { 1.1.3) F6420 } \\ & \text { Containers } \end{aligned}$ | - | - | 2.264 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - |
| 1.1.4) Test Set Procurement | - | - | - | - | - | - | - | - | 0.560 | - | - | - | - |  | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 859.597 | - | - | 5.036 | - | - | 7.258 | - | - | 6.223 | - |  | - | - | - | - | 6.223 |
| Subtotal: Flyaway Cost | - | - | 859.597 | - | - | 5.036 | - | - | 7.258 | - | - | 6.223 | - |  | - | - | - | - | 6.223 |
| Flyaway - Prior Year Flyaway Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.1) Prior Year Flyaway ${ }^{(2)}$ | - | - | 40.607 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 40.607 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - |
| Subtotal: Flyaway - Prior Year Flyaway Cost | - | - | 40.607 | - | - | - - | - | - | - | - | - | - | - |  | - | - | - | - | - |
| Support - Procurement Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) F6240 Government Test Program | - | - | 5.579 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - |
| Subtotal: Support Procurement Support Cost | - | - | 5.579 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - |


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

## Footnotes:

 Missiles to be procured with FY21 funding.
${ }^{(2)}$ Prior year costs include funding for Viper Strike and Griffin. Funding procured 140 Viper Strike and 130 Griffin missiles.
${ }^{(3)}$ PES increase above inflation from FY22 to FY23 due to additional support required for last year of planned production.
${ }^{(4)}$ ILS increase above inflation from FY22 to FY23 due to additional support required for last year of planned production.

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Hellfire Missile |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  | P-1 Line Item Number / Title: 2254 / Hellfire |  |  |  |  |  |  |  |  |
| Cost Elements | $\mathbf{O}$ <br> $\mathbf{c}$ <br> $\mathbf{O}$ | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.2) F6300 Air Training Missiles ${ }^{(\dagger)}$ | $\checkmark$ | $2018^{(5)}$ | Lockheed Martin ${ }^{(6)}$ I Orlando, FL | C/FPIF | Huntsville | Sep 2018 | Sep 2020 | 157 | 48,503.18 | $Y$ |  | Feb 2015 |
| 1.1.2) F6300 Air Training Missiles ${ }^{(+)}$ | $\checkmark$ | $2019^{(7)}$ | Lockheed Martin ${ }^{(6)}$ / Orlando, FL | C/FPIF | Huntsville | Sep 2019 | Sep 2021 | 30 | 38,166.66 | $Y$ |  | May 2017 |
| 1.1.2) F6300 Air Training Missiles ${ }^{(\dagger)}$ | $\checkmark$ | 2020 | Lockheed Martin ${ }^{(6)}$ I Orlando, FL | C/FPIF | Huntsville | Jul 2020 | Jul 2022 | 29 | 50,672.09 | Y |  | Jan 2019 |
| 1.1.2) F6300 Air Training Missiles ${ }^{(\dagger)}$ | $\checkmark$ | 2021 | Lockheed Martin ${ }^{(6)}$ I Orlando, FL | C/FPIF | Huntsville | May 2021 | May 2023 | 95 | 53,015.78 | $Y$ |  | Jan 2019 |
| 1.1.2) F6300 Air Training Missiles ${ }^{(\dagger)}$ |  | 2022 | Lockheed Martin ${ }^{(6)}$ I Orlando, FL | SS/FPIF | Huntsville | May 2022 | May 2024 | 120 | 55,816.66 | Y |  | Sep 2020 |
| 1.1.2) F6300 Air Training Missiles ${ }^{(\dagger)}$ |  | 2023 | Lockheed Martin ${ }^{(6)}$ I Orlando, FL | SS/FPIF | Huntsville | Apr 2023 | Apr 2025 | 110 | 56,572.73 | Y |  | Sep 2020 |

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

## Footnotes:

 2022.
${ }^{(6)}$ MSR is for Tri-Service Procurement of the Army, Navy and Air Force.
${ }^{(7)}$ Original contract awarded in September 2019. Additional QTY's were procured through buy to budget approval and awarded in July 2020. The additional QTY's are reflected on the delivery schedule in July 2022.

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Hellfire Missile |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2254 / Hellfire |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{o} \end{aligned}$ |  | SERVICE | PROC QTY | PRIOR TO 1 OCT 2019 | $\begin{array}{\|c\|} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{array}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \\ & \hline \end{aligned}$ | N | D <br> E <br> C | J A N | F | M A R | A <br> $\mathbf{P}$ <br> $\mathbf{R}$ | M A Y | J u N | ${ }_{\text {J }}^{\text {u }}$ | A | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { V } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \underset{\mathrm{E}}{\mathrm{E}} \end{aligned}$ | M A R | A <br>  <br> $\mathbf{P}$ <br> $\mathbf{R}$ | M ${ }_{\text {M }}^{\text {A }}$ | J U | J u L |  |  | S <br>  <br> $\mathbf{E}$ |  |
|  | 2) F6300 | Air Training M | ssiles ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | r Years D | eliveries: 637 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\checkmark$ | 12018 | NavY | 157 | 0 | 157 | - | - | - | - | - | - | - | - | - | - |  | 8 | 8 |  | 8 | 8 | 8 | 8 |  | 9 | 9 |  |  | 9 | - | 57 |
| $\checkmark$ | 12019 | NavY | 30 | 0 | 30 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - |  | - | 5 | 25 |
| $\checkmark$ | 12020 | NAVY | 29 | 0 | 29 |  |  |  |  |  |  |  |  |  | A - |  | - | - | - | - | - | - | - | - | - | - | - |  | - | - | 29 |
| $\checkmark$ | 12021 | NAVY | 95 | 0 | 95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - |  | - | - | 95 |
|  | 12022 | NAVY | 120 | 0 | 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
|  | 12023 | NAVY | 110 | 0 | 110 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 110 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> P <br> R | ${ }_{\text {M }}^{\text {M }}$ | J U N | ${ }_{\text {u }}^{\text {u }}$ | A | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | A | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A P R | M A Y | J N | J | A U G |  | $\underset{\mathrm{S}}{\mathbf{S}}$ |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 2254 / Hellfire |  |  |  |  | Item Number / Title [DODIC]: 1 / Hellfire Missile |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | ALT Prior to Oct 1 | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Lockheed Martin ${ }^{(6)}$. Orlando, FL | 1,200 | 6,000 | 8,000 | 0 | 0 | 0 | 0 | 0 | 6 | 24 | 30 |

" 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 neares 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:

${ }^{(6)}$ MSR is for Tri-Service Procurement of the Army, Navy and Air Force.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles
ID Code (A=Service Ready, B=Not Service Ready): B
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 4,212.494 | 163.193 | 141.446 | 183.222 | 0.000 | 183.222 | 176.588 | 178.839 | 182.323 | 185.840 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 4,212.494 | 163.193 | 141.446 | 183.222 | 0.000 | 183.222 | 176.588 | 178.839 | 182.323 | 185.840 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 4,212.494 | 163.193 | 141.446 | 183.222 | 0.000 | 183.222 | 176.588 | 178.839 | 182.323 | 185.840 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 2.407 | 1.951 | 2.919 | - | 2.919 | 4.247 | 4.348 | 4.470 | 4.502 | Continuing | Continuing |
| Flyaway Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Aerial Targets program provides threat representative aerial targets for test and evaluation (T\&E) and fleet training events. Assets procured under this line item are used to simulate and replicate currently fielded subsonic and supersonic Anti-Ship Cruise Missile (ASCM) threats. The threat representative targets are used to test and evaluate Navy ship self-defense systems currently in development, and are required for the successful completion of independent operational test and evaluation prior to fielding the systems to the fleet. Some variants are also used as fleet training assets to support fleet readiness. All assets procured by the Aerial Targets program are critical to evaluating combat and weapon system performance and improving fleet proficiency in counter-ASCM ship area and self defense missions. This program is composed of four primary components: (1) Subsonic Aerial Targets, (2) Supersonic Targets, (3) Full Scale Aerial Target (FSAT), and (4) Auxiliary/Augmenting Systems.
(1) Subsonic Aerial Targets

The Subsonic Aerial Targets (SSAT) portfolio is composed of production and sustainment programs that consist of the BQM-177A, BQM-34S, BQM-74E and other various aerial target programs. The BQM-177A SSAT provides dynamic, high subsonic, sea-skimming, Anti -Ship Cruise Missile threat emulation for fleet training and for the testing of USN ship self-defensive weapon systems and other surface-to-air systems. The BQM-177A is the replacement subsonic target for the BQM-74E. Funding is used for the procurement of the BQM-177A and to procure associated hardware and mission kits, avionics upgrade kits, modifications, Engineering Change Proposals (ECPs) and software upgrades as required. In FY 2020, BQM-177A procurement transitioned from Low Rate Initial Production (LRIP) to Full Rate Production (FRP) with a Navy acquisition objective of 675 targets. Full Operational Capability (FOC) was declared in February 2022. In FY 2022, the program will be in the process of preparing for FRP contract for Lots 4 through 7. The BQM-34S is a jet powered, high subsonic speed aerial target that provides a multitude of payloads for threat emulation. Funding efforts for the BQM-34S are for modifications to allow for continued utilization of current inventories as required to mitigate critical subsonic inventory shortfalls of the BQM-74E and BQM-177A to support Fleet Live-Fire training. These SSAT assets are recoverable and reused dependent on the objectives of each event. Funding may also be used to procure other subsonic targets in support of unique and emerging threat simulations.
(2) Supersonic Targets

The Supersonic targets acquisition program develops, modifies, and procures supersonic targets and boosters to replicate supersonic Anti-Ship Cruise Missile (ASCM) threats. This includes production of the non-recoverable GQM-163A Supersonic Sea Skimming Target (SSST) that is capable of speeds in excess of Mach 2.5 and cruise altitudes as low as 15 feet for the sea skimming regime and a climb to 52,000 feet for a high dive profile and capable of single-plane acceleration maneuvers up to 12 g . The GQM-163A meets threat surrogate requirements for critical Test \& Evaluation requirements of USN ship selfdefense systems along with meeting fleet training Live Fire With a Purpose pre-deployment requirements. Funding is also used for Engineering Change Proposals, modifications, and software upgrades for current and follow-on supersonic targets, to help Supersonic targets keep pace with emerging threats.
(3) Full Scale Aerial Target (FSAT)

## Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical

## P-1 Line Item Number / Title:

2280 / Aerial Targets
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



 of F-16 aircraft available for aerial target conversion are decreasing, the USAF is looking into alternative courses of action for the next generation of full scale targets.
(4) Auxiliary/Augmenting System Targets



 Auxiliary/Augmenting Systems \& Target Threat Simulation devices. Avionics equipment, common to all aerial targets, are also procured under Aux/Aug System Targets.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical 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 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1/Subsonic Aerial Targets | P-5a, P-21 |  |  | - 1880.383 | - $/ 57.323$ | - / 51.313 | - $/ 65.183$ | - 10.000 | 165.183 |
| P-5 | 3 / Supersonic Targets | P-5a, P-21 |  |  | - 1824.060 | - $/ 66.121$ | - / 49.537 | - 174.646 | - 10.000 | 174.646 |
| P-5 | 4/Full Scale Aerial Target | P-5a |  |  | - 13.670 | - /13.959 | - /13.716 | - / 13.796 | - 10.000 | 113.796 |
| P-5 | 5/Aux / Aug System Targets |  |  |  | - 12,504.381 | - / 25.790 | - 126.880 | - / 29.597 | - 10.000 | - / 29.597 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 4,212.494 | - / 163.193 | - / 141.446 | - /183.222 | - 10.000 | - / 183.222 |

*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:

Subsonic Aerial Targets

 target hardware.

Supersonic Targets

 for the Commander, SIXTH Fleet, Formidable Shield / Maritime Theater Missile Defense Forum at Sea Demonstration in support of advancing U.S. and NATO Integrated Air and Missile Defense maritime force interoperability and readiness. The program will leverage funds to modify and update existing legacy missiles into inert targets as a backfill solution to the AQM- 37 high diver target to simulate supersonic Anti-
 chaff system and outer mold line modifications in order to carry multiple payloads needed to meet DDG FLT-III T\&E requirements.

Full Scale Aerial Targets
 associated support.

Auxiliary/Augmenting System Targets

 and threat radar emissions. Target threat simulation requires various electronic countermeasures equipment and active emitter augmentation equipment.

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Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 2ID Code (A=Service Ready, B=Not Service Ready) :

## P-1 Line Item Number / Title: 2280 / Aerial Targets

## Date: April 2022

## Item Number / Title [DODIC]:

1 / Subsonic Aerial Targets

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 880.383 | 57.323 | 51.313 | 65.183 | 0.000 | 65.183 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 880.383 | 57.323 | 51.313 | 65.183 | 0.000 | 65.183 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 880.383 | 57.323 | 51.313 | 65.183 | 0.000 | 65.183 |
| (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 Thousands) | - | - | - | - | - | - |

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

|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |

## Flyaway - Subsonic Target Hardware Cost

| Recurring Cost |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 1.1.1) EM031 } \\ & \text { BQM-177A }{ }^{(+)}(1) \end{aligned}$ | 774.092 | 130 | 100.632 | 806.070 | 47 |
| 1.1.2) EM441 Install/ Mission Kits ${ }^{(2)}$ | - | - | 31.983 | - | - |
| 1.1.3) EM442 BQM-177A Other HW / Modifications ${ }^{(3)}$ | - | - | 12.933 | - | - |
| 1.1.4) EM452 BQM 34/74 Target Modification | - | - | 14.856 | - | - |
| Subtotal: Recurring Cost | - | - | 160.404 | - | - |
| Subtotal: Flyaway - <br> Subsonic Target Hardware Cost | - | - | 160.404 | - | - |


| 37.885 | 783.346 | 48 |  |
| ---: | ---: | ---: | ---: |
| 5.795 | - | - |  |
| 4.639 | - | - |  |
| 1.020 | - | - |  |
| 49.339 | - | - |  |
| 49.339 | - | - |  |


| 8 | 37.601 | 838.760 | 55 | 46.132 | - | - |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 0.685 | - | - | 4.781 | - | - |  |
| 1.500 | - | - | 7.647 | - | - |  |
| 44.826 | - | - | 1.000 | - | - |  |
| 44.826 | - | - | 59.560 | - | - |  |


| 0.000 | 838.760 | 55 | 46.132 |
| ---: | ---: | ---: | ---: |
| 0.000 | - | - | 4.781 |
| 0.000 | - | - | 7.647 |
| 0.000 | - | - | 1.000 |
| 0.000 | - | - | 59.560 |
| $\mathbf{0 . 0 0 0}$ | - | - | 59.560 |

Flyaway - Subsonic Targets Nonrecurring \& Ancillary Equipment Cost

| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.1.1) EM540 Technical Support | - | - | 1.427 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Non Recurring Cost | - | - | 1.427 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Flyaway <br> - Subsonic Targets <br> Nonrecurring \& Ancillary <br> Equipment Cost | - | - | 1.427 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |


| Exhibit P-5, Cost Analysis: PB 2023 Navy | Date: April 2022 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $1507 \mathrm{~N} / 02$ / 2 | P-1 Line Item Number / Title: <br> $2280 ~ / ~ A e r i a l ~ T a r g e t s ~$ | Item Number / Title [DODIC]: <br> $1 /$ Subsonic Aerial Targets |

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

|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & (\text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ K)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |

Flyaway - Subsonic Target Launch Hardware Cost

| Recurring Cost |  |  |  |
| :---: | :---: | :---: | :---: |
| 3.1.1) EM701 <br> Subsonic Ground <br> Equipment | - | - |  |
| Subtotal: Recurring Cost | - | - |  |
| Subtotal: Flyaway - <br> Subsonic Target Launch <br> Hardware Cost | - | - |  |
| Flyaway - Subsonic Prior Year/Not In Production Cost |  |  |  |

Flyaway - Subsonic Prior Year/Not In Production Cost
Non Recurring Cost

| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4.1.1) Prior Year/Not In Production Cost Subsonic | - | - | 668.340 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Non Recurring Cost | - | - | 668.340 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Flyaway Subsonic Prior Year/Not In Production Cost | - | - | 668.340 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |

Support - Subsonic Production Support Co

| 5.1) EM851 Subsonic Production Engineering Support | - | - | 19.783 | - | - | 4.332 | - | - | 4.418 | - | - | 4.462 | - | - | 0.000 | - | - | 4.462 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5.2) EM861 Subsonic Integrated Logistic Support | - | - | 5.491 | - | - | 1.130 | - | - | 1.150 | - | - | 1.161 | - | - | 0.000 | - | - | 1.161 |
| 5.3) EM871 Publications, Training Materials and Equipment ${ }^{(4)}$ | - | - | 0.967 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Support - Subsonic Production Support Cost | - | - | 26.241 | - | - | 5.462 | - | - | 5.568 | - | - | 5.623 | - | - | 0.000 | - | - | 5.623 |
| Gross/Weapon System Cost | - | - | 880.383 | - | - | 57.323 | - | - | 51.313 | - | - | 65.183 | - | - | 0.000 | - | - | 65.183 |

(t) indicates the presence of a P-5a

## Footnotes:

${ }^{(1)}$ EM031 BQM-177A: FY 2023 to be awarded on new FRP-4 base contract for the procurement of 55 BQM-177A Subsonic Targets. Unit cost increase is attributable to the incorporation of production related engineering changes, composite material increases, and costs associated with compliance with a FAR Clause 252.228-7001 Ground Flight Risk. FY 2022 unit cost reflects the procurement of 65 BQM-177A targets (48 USN / 17 FMS).

| Exhibit P-5, Cost Analysis: PB 2023 Navy | Date: April 2022 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $1507 \mathrm{~N} / 02$ / 2 | P-1 Line Item Number / Title: <br> $2280 ~ / ~ A e r i a l ~ T a r g e t s ~$ | Item Number / Title [DODIC]: <br> $1 /$ Subsonic Aerial Targets |

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

## MDAP/MAIS Code:









 evaluation threat representative presentation requirements.



 costs of the modifications and engineering changes.
 element and appropriation as required.

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

## Footnotes:

${ }^{(5)}$ Full Rate Production (FRP) 1 is a new contract; base plus two pre-negotiated options for FRP-2 and FRP-3
${ }^{(6)}$ FRP-2 is a pre-negotiated option in conjunction with FRP-1 contract
${ }^{(7)}$ FRP-3 is a pre-negotiated option in conjunction with FRP-1 contract
${ }^{(8)}$ FRP-4 will be a new contract; base plus three pre-negotiated options for FRP-5, FRP-6 and FRP-7

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Subsonic Aerial Targets |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2280 / Aerial Targets |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { Cost Elements } \\ & \text { (Units in Each) } \\ & \hline \end{aligned}$ |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \\ & \hline \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |
| O  <br> O  <br> C  <br> C  <br> R  <br> R  | FY | SERVICE | PROC QTY | $\begin{gathered} \text { PRIOR } \\ \text { TO 1 } \\ \text { OCT } \\ 2021 \end{gathered}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | A P R | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & U \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & F \\ & E \\ & E \\ & B \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A $\mathbf{p}$ P R | $\begin{aligned} & \text { M } \\ & A \\ & \text { Y } \end{aligned}$ | J | ${ }_{\text {J }}^{\text {u }}$ | A | S E P |  |
| 1.1.1) | EM031 | BQM-177A ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | ears De | eliveries: 95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2020 | NAVY | 35 | 18 | 17 | , | 3 | 3 | 3 | 3 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | NAVY | 47 | 0 | 47 | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 3 | 4 | 3 |  |  |  |  |  |  |  | 0 |
| 1 | 2022 | NAVY | 48 | 0 | 48 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 20 |
| 1 | 2022 | FMS ${ }^{(\$)}$ | 17 | 0 | 17 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 |
| 1 | 2022 | Total | 65 | 0 | 65 |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 37 |
| 1 | 2023 | NAVY | 55 | 0 | 55 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | 55 |
|  |  |  |  |  |  | O c T | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \hline F \\ & E \\ & E \end{aligned}$ | M <br>  <br> R | A <br> P <br> R | ${ }_{\text {M }}^{\text {M }}$ | J U N | $\mathrm{J}_{\mathrm{J}}^{\mathrm{u}}$ | A U G | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & \text { A } \\ & R \end{aligned}$ | A <br> P <br> R | M A Y | J | J u L | A | S |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 I 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2280 / Aerial Targets |  |  |  |  |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 1 / Subsonic Aerial Targets |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|} \hline 0 & \mathrm{~F} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{O} & \mathrm{O} \\ \hline \end{array}$ | FY | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { OTY } \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { RKIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2023 \\ \hline \end{array}$ | $\begin{aligned} & \text { DUE } \\ & \text { AS OF } \\ & 1 \text { OCT } \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M <br>  <br> R | A <br>  <br> $\mathbf{P}$ <br> R | M ${ }_{\text {M }}^{\text {A }}$ | J U | ${ }_{\text {J }}^{\text {u }}$ | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M | J | $\mathrm{J}_{\mathrm{J}}^{\mathrm{u}}$ | A U G | S E P |  |
| 1.1.1) | EM031 | BQM-177A ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | ears Dil | eliveries: 95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2020 | NavY | 35 | 35 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | NavY | 47 | 47 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2022 | Navy | 48 | 28 | 20 | 4 | 4 | 4 | 4 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2022 | FMS ${ }^{(\ddagger)}$ | 17 | 0 | 17 | $\cdot$ | 1 | 4 | 6 | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2022 | Total | 65 | 28 | 37 | 4 | 5 | 8 | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | 0 |
| 1 | 2023 | NavY | 55 | 0 | 55 | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | O c T | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | D E E C | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \hline F \\ & \hline \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & A \\ & R \end{aligned}$ | $\begin{aligned} & \hline \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & \text { A } \end{aligned}$ | J U N | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{A} \\ & \mathrm{U} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \hline \end{aligned}$ | M A R | A P R | M | J N | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 2280 / Aerial Targets |  |  |  |  | Item Number / Title [DODIC]: 1 / Subsonic Aerial Targets |  |  |
| $\begin{array}{\|c} \hline \text { MFR } \\ \text { Ref } \\ \# \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Kratos / Sacramento, CA Kratos | 30 | 45 | 72 | 0 | 11 | 7 | 18 | 0 | 3 | 15 | 18 |

${ }^{(\ddagger)}$ 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.
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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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 3 / Supersonic Targets |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 2280 / Aerial Targets |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost $(\$ K)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost $(\$ K)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| 3.1.1) EM702 Ground Equipment | - | . | 9.404 | - | . | 1.619 | - | . | 0.556 | - | - | 0.000 | - | . | 0.000 | - | - | 0.000 |
| Subtotal: Non Recurring Cost | - | - | 9.404 | - | - | 1.619 | - | - | 0.556 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Flyaway - Other Targets Launch Hardware Cost | - | - | 9.404 | - | - | 1.619 | - | - | 0.556 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Flyaway - GQM-163A Long Lead Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 4.1.1) Long Lead } \\ & \text { Credit }^{(13)} \end{aligned}$ | - | - | -6.008 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| $\begin{aligned} & \text { 4.1.2) Long Lead } \\ & \text { Components }{ }^{(14)} \end{aligned}$ | - | - | 5.745 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Recurring Cost | - | - | -0.263 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Flyaway -GQM-163A Long Lead Item Cost | - | - | -0.263 | - | - | 0.000 | . | - | 0.000 | . | - | 0.000 | . | - | 0.000 | - | . | 0.000 |
| Flyaway - Other Targets FY06 and PRIOR Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recuring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.1.1) Non Recurring Cost | - | - | 250.054 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Non Recurring Cost | - | - | 250.054 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Flyaway - Other Targets FY06 and PRIOR Cost | - | - | 250.054 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.1) EM852 Production Engineering Support | - | - | 41.422 | - | - | 2.591 | - | - | 2.642 | - | - | 2.680 | - | - | 0.000 | - | - | 2.680 |
| 6.2) EM853 NSWC WSMR ARAV Target Support (OCO Funds) | - | - | 6.500 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 6.3) EM854 Hebrides/ Formidable Shield <br> Exercises ${ }^{(15)}$ | - | - | 6.500 | - | - | 1.608 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Support Cost | - | - | 54.422 | - | - | 4.199 | - | - | 2.642 | - | - | 2.680 | $\cdot$ | - | 0.000 | - | $\cdot$ | 2.680 |
| Gross/Weapon System Cost | . | . | 824.060 | - | - | 66.121 | - | - | 49.537 | - | - | 74.646 | . | - | 0.000 | - | - | 74.646 |
| Remarks: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Exhibit P-5, Cost Analysis: PB 2023 Navy | Date: April 2022 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $1507 \mathrm{~N} / 02$ / 2 | P-1 Line Item Number / Title: <br> $2280 ~ / ~ A e r i a l ~ T a r g e t s ~$ | Item Number / Title [DODIC]: <br> $3 /$ Supersonic Targets |


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

Supersonic Targets Set was previously identified as "other Targets". Name has been updated to more accurately reflect the target portfolio that this P-5 Set represents.
$(\dagger)$ indicates the presence of a P-5a

## Footnotes:





 interoperability and readiness
 procured.



 requirements.



${ }^{(13)}$ Long Lead Credit was for Steel procurements that will now be procured annually with the FRP production lots, commencing in FY 2020.
${ }^{(14)}$ Long Lead Credit was for Steel procurements that will now be procured annually with the FRP production lots, commencing in FY 2020.
${ }^{(15)}$ Cost Code EM854 supports the GQM-163A target launch site activation in support of Formidable Shield ASD/Fleet Training Exercises in Hebrides, Scotland.

| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 3 / Supersonic Targets |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  | P-1 Line Item Number / Title: 2280 / Aerial Targets |  |  |  |  |  |  |  |  |
| 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 (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) EM203 GQM-163A ${ }^{(+)}$ |  | $2017{ }^{(16)}$ | NORTHROP GRUMMAN inNovation systems ${ }^{(17)}$ I CHANDLER AZ | SS/FFP | NAVAIR | Mar 2018 | Mar 2021 | 24 | 2,645.333 | Y |  | Dec 2016 |
| 1.1.1) EM203 GQM-163A ${ }^{(+)}$ |  | $2018{ }^{(18)}$ | NORTHROP GRUMMAN inNovation systems ${ }^{(17)}$ I CHANDLER AZ | SS/FFP | NAVAIR | Jul 2018 | Jul 2022 | 17 | 2,897.299 | Y |  | Dec 2016 |
| 1.1.1) EM203 GQM-163A ${ }^{(+)}$ |  | $2019{ }^{(19)}$ | NORTHROP GRUMMAN inNovation systems ${ }^{(17)}$ I CHANDLER AZ | SS/FFP | NAVAIR | Dec 2018 | Mar 2023 | 14 | 3,045.286 | Y |  | Dec 2016 |
| 1.1.1) EM203 GQM-163A ${ }^{(+)}$ |  | $2020{ }^{(20)}$ | NORTHROP GRUMMAN inNovation systems ${ }^{(17)}$ I CHANDLER AZ | SS/FFP | NAVAIR | Nov 2020 | Oct 2023 | 16 | 3,005.085 | Y |  | Aug 2019 |
| 1.1.1) EM203 GQM-163A ${ }^{(+)}$ |  | $2021{ }^{(21)}$ | NORTHROP GRUMMAN inNovation systems ${ }^{(17)}$ I CHANDLER AZ | SS/FFP | NAVAIR | Feb 2021 | Jun 2024 | 14 | 3,081.467 | Y |  | Aug 2019 |
| 1.1.1) EM203 GQM-163A ${ }^{(+)}$ |  | $2022{ }^{(22)}$ | NORTHROP GRUMMAN inNovation systems ${ }^{(17)}$ I CHANDLER AZ | SS/FFP | NAVAIR | Dec 2022 | Mar 2025 | 10 | 2,831.386 | Y |  | Aug 2019 |
| 1.1.1) EM203 GQM-163A ${ }^{(+)}$ |  | 2023 | NORTHROP GRUMMAN INNOVATION SYSTEMS ${ }^{(17)}$ I CHANDLER AZ | SS/FFP | NAVAIR | Dec 2022 | Aug 2025 | 18 | 2,831.386 | Y |  | Aug 2019 |

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

## Footnotes:

${ }^{(16)}$ FRP 11 includes a base contract plus pre-negotiated options for FRP12 and FRP13. Deliveries updated to reflect re-baseline schedule.
 rate to 32 units per year.
${ }^{(18)}$ FRP 12 pre-negotiated option that is negotiated in conjunction with the FRP11 contract. Deliveries updated to reflect re-baseline schedule.
${ }^{(19)}$ FRP 13 pre-negotiated option that is negotiated in conjunction with the FRP11 contract. Deliveries updated to reflect re-baseline schedule.
${ }^{(20)}$ FRP 14 new contract; includes a base plus three pre-negotiated options for FRP15, FRP16 and FRP17. Deliveries updated to reflect re-baseline schedule.
${ }^{(21)}$ FRP 15 pre-negotiated option in conjunction with the FRP 14 contract to include Formidable Shield. Deliveries updated to reflect re-baseline schedule.
${ }^{(22)}$ FRP 16 pre-negotiated option in conjunction with the FRP 14 contract to include Formidable Shield. FRP-16 will combine FY22/23 funding in a single full-rate production award.

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| Exh | bit P | -21, Prod | ducti | ion Sch | hedul | : P | 202 | Na |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dat | Ap | 20 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { App } \\ & 1507 \end{aligned}$ | ropr <br> N / | $\begin{aligned} & \text { iation / } \\ & 02 \text { / } 2 \end{aligned}$ | Budge | et Acti | ivity / |  |  |  |  |  |  |  | tem <br> rial | $\begin{aligned} & \text { Num } \\ & \text { arge } \end{aligned}$ | er |  |  |  |  |  |  |  |  | per | ber | Titl Targ | $\mathrm{DO}$ |  |  |  |
|  |  | $\begin{aligned} & \text { Cost EI } \\ & \text { (Units) } \end{aligned}$ | ements <br> Each |  |  |  |  |  |  |  | Fiscal | 20 |  |  |  |  |  |  |  |  |  |  | Fiscal | 201 |  |  |  |  |  | ${ }_{\text {B }}^{\text {B }}$ |
|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  | enda | ear 20 |  |  |  |  |  |  |  |  |  | ar Ye | 2019 |  |  |  | L |
|  | FY | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { QTY } \end{aligned}$ | TO 1 <br> OCT <br> OCT <br> 2017 | $\begin{gathered} \text { DUL } \\ \text { DS OF } \\ \text { IOCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | J A N | F E B | M A R | A <br>  <br> P <br> R | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \end{aligned}$ | $\begin{aligned} & A \\ & \text { A } \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & R \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~N} \end{aligned}$ | J | $\begin{aligned} & A \\ & \mathbf{A} \\ & \mathbf{G} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | N N C E |
| 1.1.1) | ем203 | GQM-163A ${ }^{(9)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | ears De | eliveries: 85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2017 | NAVY | 24 | 0 | 24 |  |  |  |  |  | A - | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | 24 |
| 1 | 2018 | NAVY | 17 | 0 | 17 |  |  |  |  |  |  |  |  |  | A - |  |  | - | - | - | - | - | - | - | - | - | - | - | - | 17 |
| 1 | 2018 | FMs ${ }^{(\ddagger)}$ | 1 | 0 | 1 |  |  |  |  |  |  |  |  |  | A - |  |  | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| 1 | 2018 | Total | 18 | 0 | 18 |  |  |  |  |  |  |  |  |  | - |  | . | - | - | - | - | - | - | - | - | - | - | - | - | 18 |
| 1 | 2019 | NAVY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A | - | - | - | - | - | - | - | - | - | 14 |
| 1 | 2019 | FMs ${ }^{(\ddagger)}$ | 1 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A | - | - | - | - | - | - | - | - | - | 1 |
| 1 | 2019 | Total | 15 | 0 | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\cdot$ | - | - | $\cdot$ | - | - | - | - | - | - | 15 |
| 1 | 2020 | NAVY | 16 | 0 | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 16 |
| 1 | 2020 | FMS ${ }^{(\ddagger)}$ | 3 | 0 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| 1 | 2020 | Total | 19 | 0 | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 19 |
| 1 | 2021 | NAVY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 |
| 1 | 2021 | FMS ${ }^{(\ddagger)}$ | 4 | 0 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 |
| 1 | 2021 | Total | 18 | 0 | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 18 |
| 1 | 2022 | NAVY | 10 | 0 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 1 | 2023 | Navy | 18 | 0 | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 18 |
|  |  |  |  |  |  | O c c | N 0 | D | ${ }_{\text {J }}$ | F | M ${ }_{\text {A }}$ | A | M A | J | J | A | S | o c - - | N 0 | $\stackrel{\text { D }}{\text { D }}$ | J | F | M | A | M | J | J | A U - | $\stackrel{S}{\text { S }}$ |  |
|  |  |  |  |  |  | ${ }_{\text {T }}$ | v | ${ }_{\text {c }}$ | ${ }^{\text {A }}$ | B | A | R | ${ }^{\text {A }}$ | N | U | G | $\stackrel{\text { E }}{\text { P }}$ | T | v | ${ }_{\text {c }}^{\text {c }}$ | A | ${ }_{\text {E }}$ | R | R | ¢ | N | - | $\mathrm{G}_{\mathrm{G}}$ | ${ }_{\text {P }}$ |  |

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| Exh | bit P | -21, Prod | ducti | ion Sc | hedul | : P | 202 | Nav |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dat | Apr | 202 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { App } \\ & 1507 \end{aligned}$ | ropr <br> N / | $\begin{aligned} & \text { iation / } \\ & 02 \text { / } 2 \end{aligned}$ | Budge | et Acti | ivity / |  |  |  |  |  |  | / ine | tem <br> rial |  |  | itle: |  |  |  |  |  |  |  | per | nic | Title Targe | $\mathrm{DO}$ <br> s |  |  |  |
|  |  | $\begin{aligned} & \text { Cost EI } \\ & \text { (Units) } \end{aligned}$ | ements <br> Each |  |  |  |  |  |  |  | iscal $Y$ | 202 |  |  |  |  |  |  |  |  |  |  | Fiscal | 2023 |  |  |  |  |  | B ${ }_{\text {A }}$ |
|  |  |  |  | ${ }^{\text {ACCEPT }}$ |  |  |  |  |  |  |  |  |  | enda | ar 202 |  |  |  |  |  |  |  |  | Cale | ar Year | 2023 |  |  |  | L |
|  | FY | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { QTY } \end{aligned}$ | TO 1 OCT OCT 2021 | $\begin{gathered} \text { DUL } \\ \text { DS OF } \\ \text { IOCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \text { A } \\ & \mathrm{N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \text { A } \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { V } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \text { A } \\ & \mathrm{N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & R \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | $\underset{\substack{\mathrm{A} \\ \mathrm{~A} \\ \hline}}{ }$ | J U N | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \mathbf{A} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | N N C E |
| 1.1.1) | ем203 | GQM-163A ${ }^{(9)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | ears De | eliveries: 85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2017 | NAVY | 24 | 9 | 15 | - | - | - | - | 6 | 3 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | NAVY | 17 | 0 | 17 | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | - |  |  |  |  |  |  | 0 |
| 1 | 2018 | FMs ${ }^{(\ddagger)}$ | 1 | 0 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |  |  |  |  |  |  | 0 |
| 1 | 2018 | Total | 18 | 0 | 18 | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | - | $\cdot$ | - | - | - | $\cdot$ | 0 |
| 1 | 2019 | NAVY | 14 | 0 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 3 | 2 | 3 | 2 | 1 | 0 |
| 1 | 2019 | FMs ${ }^{(\ddagger)}$ | 1 | 0 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 0 |
| 1 | 2019 | Total | 15 | 0 | 15 | - | - | - | - | - | $\cdot$ | - | - | - | - | - | - | - | $\cdot$ | - | - | $\cdot$ | 1 | 2 | 3 | 2 | 3 | 2 | 2 | 0 |
| 1 | 2020 | NAVY | 16 | 0 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 |
| 1 | 2020 | FMS ${ }^{(\ddagger)}$ | 3 | 0 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| 1 | 2020 | Total | 19 | 0 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 |
| 1 | 2021 | NAVY | 14 | 0 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 |
| 1 | 2021 | FMs ${ }^{(\ddagger)}$ | 4 | 0 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 |
| 1 | 2021 | Total | 18 | 0 | 18 | - | - | - | - | $\cdot$ | $\cdot$ | - | - | - | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | - | - | - | - | - | - | - | - | - | - | 18 |
| 1 | 2022 | NAVY | 10 | 0 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | 10 |
| 1 | 2023 | NAVY | 18 | 0 | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | 18 |
|  |  |  |  |  |  | O c c | N 0 | D | ${ }_{\text {J }}$ | F | M ${ }_{\text {A }}$ | A | M ${ }_{\text {A }}$ | J | J | A | S | - | N | D | ${ }_{\text {J }}$ | F | M | A | M | J | J | A | $\stackrel{S}{\text { S }}$ |  |
|  |  |  |  |  |  | T | v |  | N |  |  | R | Y | N | L | G | P | T | v | c | N | B | R | R | ${ }^{\text {r }}$ | N |  | G | P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: 2280 / Aerial Targets |  |  |  |  | Item Number / Title [DODIC]: <br> 3 / Supersonic Targets |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 | MAX For 2023 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ |  | 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 | NORTHROP GRUMMAN INNOVATION SYSTEMS ${ }^{(17)}$ - CHANDLER AZ | 6 | 21 | 28 | 14 |  | 28 | 29 | 0 | 3 | 36 | 39 |

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

 rate to 32 units per year.

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 | P-1 Line Item Number / Title: 2280 / Aerial Targets | Item Number / Title [DODIC]: 4 / Full Scale Aerial Target |
| ID Code (A=Service Ready, B=Not Service Ready) : |  | MDAP/MAIS Code: |
| ${ }^{(23)}$ EMA11 QF-16 Full Scale Aerial Target (FSAT): Unit cost is not indicative of true unit costs of one QF-16 target. The quantities and price purchased via contract varies per year and is based on the procurement agreement between the United States (US) Navy and the US Air Force (USAF). The total cost of the QF-16 target includes EMA12 QF-16 Hardware/ regeneration efforts as well. <br> (24) |  |  |

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## Footnotes:

${ }^{(25)}$ Lot 6
${ }^{(26)}$ Production rates are based on joint procurements between the United States Air Force and the United States Navy.
${ }^{(27)}$ Lot 7 . Estimated award date.
${ }^{(28)}$ Lot 8. Estimated award date.

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Exhibit P-5, Cost Analysis: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2
ID Code (A=Service Ready, B=Not Service Ready) :

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 2,504.381 | 25.790 | 26.880 | 29.597 | 0.000 | 29.597 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 2,504.381 | 25.790 | 26.880 | 29.597 | 0.000 | 29.597 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 2,504.381 | 25.790 | 26.880 | 29.597 | 0.000 | 29.597 |
| (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 Thousands) | - | - | - | - | - | - |

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

|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ K)$ |  | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |

## Flyaway - Aux/Aug Sys Targets Hardware Cost

## Recurring Cost

| 1.1.1) EM304 ECM/ <br> Emitter Equipment ${ }^{(29)}$ | - | - | 82.472 | - | - | 10.907 | - | - | 10.670 | - | - | 12.450 | - | - | 0.000 | - | - | 12.450 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1.2) EM307 Target Common Avionics Equipment ${ }^{(30)}$ | - | - | 36.296 | - | - | 9.789 | - | - | 11.016 | - | - | 11.900 | - | - | 0.000 | - | - | 11.900 |
| Subtotal: Recurring Cost | - | - | 118.768 | - | - | 20.696 | - | - | 21.686 | - | - | 24.350 | - | - | 0.000 | - | - | 24.350 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2.1) Prior Year No Longer Procured | - | - | 334.305 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Non Recurring Cost | - | - | 334.305 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Flyaway - Aux/Aug Sys Targets Hardware Cost | - | - | 453.073 | - | - | 20.696 | - | - | 21.686 | - | - | 24.350 | - | - | 0.000 | - | - | 24.350 |

Flyaway - Aux/Aug Sys Targets FY06 and PRIOR Cost

| Flyaway - Aux/Aug Sys |
| :---: |
| Non Recurring Cost |


| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.1.1) Prior year costs no longer financed beyond 1995 | - | - | 1,992.884 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Non Recurring Cost | - | - | 1,992.884 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Flyaway - Aux/ Aug Sys Targets FY06 and PRIOR Cost | - | - | 1,992.884 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 2280 / Aerial Targets |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 5 / Aux / Aug System Targets |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Support - Aux/Aug Sys Targe | s Support Cos |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) EM823 Training Equipment | - | - | 2.520 | - | - | 0.204 | - | - | 0.208 | - | - | 0.210 | - | - | 0.000 | - | - | 0.210 |
| 3.2) EM853 Production Engineering Support | - | - | 45.004 | - | - | 3.941 | - | - | 4.019 | - | - | 4.059 | - | - | 0.000 | - | - | 4.059 |
| 3.3) EM863 Integrated Logistics Support (ILS) | - | - | 9.369 | - | - | 0.864 | - | - | 0.881 | - | - | 0.890 | - | - | 0.000 | - | - | 0.890 |
| 3.4) EM873 Documentation | - | - | 1.531 | - | - | 0.085 | - | - | 0.086 | - | - | 0.088 | - |  | 0.000 | - | - | 0.088 |
| Subtotal: Support - Aux/Aug Sys Targets Support Cost | - | - | 58.424 | - | - | 5.094 | - | - | 5.194 | - | - | 5.247 | - | - | 0.000 | - | - | 5.247 |
| Gross/Weapon System Cost | - | - | 2,504.381 | - | - | 25.790 | - | - | 26.880 | - | - | 29.597 | - | - | 0.000 | - | - | 29.597 |

## Footnotes:

${ }^{(29)}$ EM304 ECM/Emitter Equipment increases throughout the FYDP to support Operational requirements of Target Threat Simulation Payloads to ensure Fleet readiness in keeping pace with emerging threats. Increases in FY 2023 includes the procurement of miniaturized payloads in support of Supersonic targets.
${ }^{(30)}$ EM307 Target Common Avionics Equipment increase from FY 2022 to FY 2023 to support procurements of Aerial Target Mission Support Systems and address upgrades for the System for Navy Target Control (SNTC) Block 3C due to obsolescence issues which impacts the fleet's ability to successfully test the effectiveness of ship defense. Upgrades enable increased reporting rate and accuracy of tracking for both targets and surface combatants on the ranges to enable closer flight of targets to test close-in weapons systems safely.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: 02 | 162 N |  | Other Relate | Program Ele | ments: 0604 | 59N |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | 12 | 18 | 61 | - | 61 | 155 | 80 | 81 | 80 | 263 | 750 |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 19.956 | 30.321 | 62.930 | 0.000 | 62.930 | 139.726 | 82.693 | 85.025 | 85.610 | 241.799 | 748.060 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 19.956 | 30.321 | 62.930 | 0.000 | 62.930 | 139.726 | 82.693 | 85.025 | 85.610 | 241.799 | 748.060 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 19.956 | 30.321 | 62.930 | 0.000 | 62.930 | 139.726 | 82.693 | 85.025 | 85.610 | 241.799 | 748.060 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | 1,663K | 1,684K | 1,032K | - | 1,032K | 901,458.06 | 1,034K | 1,050K | 1,070K | 919,387.83 | 997,413.33 |

## Description:






 increases the range and duration of EW systems while providing flexibility to commanders for employment.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical

## P-1 Line Item Number / Title: <br> 2285 / Drones and Decoys

## Missiles

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: 0204162N |  |  |  | Other Related Program Elements: 0604659N |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1 / Drones and Decoys | P-5a, P-21 |  |  | - 10.000 | 12 / 19.956 | 18 / 30.321 | 61 / 62.930 | - 10.000 | 61 / 62.930 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 10.000 | 12 / 19.956 | 18/30.321 | 61 / 62.930 | - 10.000 | 61 / 62.930 |

*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:

 correct cost to complete is $\$ 261.755 \mathrm{M}$. Total procurement quantity of 750 and associated total cost of $\$ 748.060 \mathrm{M}$ remains unchanged.

This BLI supports the Navy variant of the Miniature Air Launched Decoy (MALD). FY 2023 funding is for the procurement of 61 MALD-N's, containers, cables and associated support.

 lethal force and is a critical enabler for joint lethality in contested environments; deterring adversaries from aggression and evolves innovative operational concepts.

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 | P-1 Line Item Number / Title: 2285 / Drones and Decoys | Item Number / Title [DODIC]: <br> 1 / Drones and Decoys |

ID Code (A Service Ready, BeNot Senice Read) :
MDAP/MAIS Code:
${ }^{(2)}$ Containers: Ratio of containers to MALD is 1:1
${ }^{(3)}$ GIH Production Support increases over inflation in FY 2023 as programs transitions from development into procurement with increased procurement quantities.
 rescissions are reflected in the other cost elements.

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Drones and Decoys |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Bud 1507N / 02 / 2 |  | ity / Buc | Sub Activity: | P-1 Line Item Number / Title: 2285 / Drones and Decoys |  |  |  |  |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost <br> (s) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) MALD Minature Air Launched Decoy ${ }^{(\dagger)}$ |  | $2022{ }^{(5)}$ | Raytheon CO / Tucson AZ | SS/FPIF | NAVAIR | Mar 2023 | Dec 2024 | 18 | 1,662K | N | Jul 2022 | Jul 2022 |
| 1.1.1) MALD Minature Air Launched Decoy ${ }^{( }{ }^{\dagger}$ |  | $2023{ }^{(6)}$ | Raytheon CO / Tucson AZ | SS/FPIF | NAVAIR | Mar 2023 | Feb 2025 | 61 | 1,017K | N | Jul 2022 | Jul 2022 |
| 1.1.2) Containers |  | $2022{ }^{(7)}$ | TBD/TBD | TBD | NAVAIR | Mar 2023 | Dec 2024 | 18 | 10,284.00 | N | Jul 2022 | Jul 2022 |
| 1.1.2) Containers |  | $2023{ }^{(8)}$ | TBD / TBD | TBD | NAVAIR | Mar 2023 | Feb 2025 | 61 | 10,490.00 | N | May 2023 | Jul 2022 |

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

## Footnotes:

${ }^{(5)}$ FY 2022 funds LRIP 1
${ }^{(6)}$ FY 2023 funds LRIP 1
${ }^{(7)}$ FY 2022 container contract will be awarded competitively via NAVAIR. FY 2022 funds LRIP 1
${ }^{(8)}$ FY 2023 funds LRIP 1

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Drones and Decoys |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2285 / Drones and Decoys |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2026 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  | FY | SERVICE | PROC QTY | ACCEPT <br> PRIOR <br> TO 1 <br> OCT <br> 2024 | $\begin{gathered} \mathrm{BAL} \\ \text { DUE } \\ \text { AS OF } \\ 1 \mathrm{OCT} \end{gathered}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2026 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | A ${ }_{\text {a }}^{\text {A }}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y } \end{aligned}$ | J U | ${ }_{\text {J }}^{\text {u }}$ | A | S E P | $\begin{aligned} & \mathrm{O} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M ${ }_{\text {M }}^{\text {A }}$ | A P R | M A Y | J | J <br> L <br>  | A U G | S E P |  |
| 1.1.1) MALD Minature Air Launched Decoy ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | Navy | 18 | 0 | 18 | - | - | 9 | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2023 | NavY | 61 | , | 61 | - | - | - | - | 12 | 12 | 12 | 12 | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | $\stackrel{0}{\mathrm{c}}$ | N | D | J | F | ${ }_{\text {M }}^{\text {M }}$ | A | ${ }_{\text {M }}^{\text {M }}$ | ${ }^{\mathrm{J}}$ | J | A | $\stackrel{\text { s }}{\text { E }}$ | - | N | D | ${ }_{\text {A }}$ | F | ${ }_{\text {M }}^{\text {M }}$ | A ${ }_{\text {P }}$ | ${ }_{\text {M }}^{\text {A }}$ | ${ }^{\mathrm{J}}$ | J | A | S |  |
|  |  |  |  |  |  | T | v | c | N | в | R | R | Y | N | L | G | P | T | v | c | N | B | R | R | Y | N |  | G | P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 2285 / Drones and Decoys |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Drones and Decoys |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | der |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 | MAX For 2023 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Raytheon CO- Tucson AZ | 30 | 480 | 480 | 0 | 6 | 19 | 25 | 0 | 2 | 19 | 21 |

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

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: N/A |  |  | Other Relat | Program E | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\text { FY } 2023$ <br> Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 63.958 | 3.501 | 3.474 | 3.524 | 0.000 | 3.524 | 3.607 | 3.658 | 3.732 | 3.807 | - | 89.261 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 63.958 | 3.501 | 3.474 | 3.524 | 0.000 | 3.524 | 3.607 | 3.658 | 3.732 | 3.807 | - | 89.261 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 63.958 | 3.501 | 3.474 | 3.524 | 0.000 | 3.524 | 3.607 | 3.658 | 3.732 | 3.807 | - | 89.261 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The MK-41 Vertical Launching System (VLS) is a surface combatant missile launching system designed to store, select, and launch various Standard Missile configurations, Tomahawk, Tactical Tomahawk, Evolved Seasparrow (ESSM) and Vertical Launch Anti-Submarine Rocket (ASROC) (VLA) missiles. The MK-41 VLS significantly improves missile capacity, flexibility, multi-mission capability, reaction time, rate of fire, and is designed to be adaptable to present and future weapon systems. Current configurations are: two 61 cell launchers (forward and aft) for 22 TICONDEROGA (CG 47) Class Cruisers beginning with CG-52, one 61 cell aft and one 29 cell launcher forward for 28 ARLEIGH BURKE (DDG 51) Class Destroyers, one 64 cell launcher aft and one 32 cell launcher forward for 34 DDG 51 FLT IIA ships.
[P5 / CANISTER EQUIPMENT]: Funds procurement and installation of canister and gas management hardware Engineering Change Proposals (ECPs) and Ordnance Alterations (ORDALTs).

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1 / Other Missile Support |  |  |  | - 163.958 | - 13.501 | - 13.474 | - 13.524 | - 10.000 | - 13.524 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /63.958 | - 13.501 | - 13.474 | - 13.524 | - 10.000 | - 13.524 |

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

## Justification:



 and safety.

## UNCLASSIFIED



## Footnotes:

${ }^{(1)}$ Funds increased from FY 2022 to FY 2023. Additional funding will support Seal Beach, Yorktown with canister management. This would include on \& offloads and gas management tasking.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

## P-1 Line Item Number / Title:

2291 / LRASM

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

Program Elements for Code B Items: 0204167N
Other Related Program Elements: 0604786N
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 99 | 43 | 48 | 60 | - | 60 | 61 | 46 | 47 | 46 | - | 450 |
| Gross/Weapon System Cost (\$ in Millions) | 377.594 | 134.065 | 161.212 | 226.022 | 0.000 | 226.022 | 221.127 | 152.944 | 155.705 | 156.430 | - | 1,585.099 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 377.594 | 134.065 | 161.212 | 226.022 | 0.000 | 226.022 | 221.127 | 152.944 | 155.705 | 156.430 | - | 1,585.099 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 377.594 | 134.065 | 161.212 | 226.022 | 0.000 | 226.022 | 221.127 | 152.944 | 155.705 | 156.430 | - | 1,585.099 |
| (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 Dollars) | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | 3,814K | 3,118K | 3,359K | 3,767K | - | 3,767K | 3,625K | 3,325K | 3,313K | 3,401K | - | $3,522 \mathrm{~K}$ |

## Description:








 Missile (JASSM). The Navy and Air Force jointly procure LRASMs via an Air Force contract that benefits from cost savings when aligned with JASSM procurements.

The U.S. Air Force procurement for LRASMs in FY 2017 through FY 2027 at the following quantities:
FY 2017-19 (Lot 1)
FY 2018-16 (1 unit was priced at and part of FY 2017 Lot 1 to achieve 20 total Air Force units in Lot 1; 15 units are with FY 2018 Lot 2 procurement)
FY 2019-15 (Lot 3)
FY 2020-0 (Lot 4)
FY 2021-6 (Lot 5)
FY 2022-0 (Lot 6)
FY 2023-28 (Lot 7)
FY 2024-20 (Lot 8)
FY 2025-19 (Lot 9)
FY 2026-24 (Lot 10)
FY 2027-30 (Lot 11)

*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:
 installations and test support. FY 2023 also funds procurement and installations of updated Weapon Data Link to satisfy compliance of NSA crypto modification mandate.


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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 2291 I LRASM |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / LRASM |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| 3.2) LRASM Operational <br> Test Support ${ }^{(4)}$ | - | - | - | - | - | - | - | - | 1.843 | - | - | 10.681 | - | - | - | - | - | 10.681 |
| 3.3) LRASM Telemetry Kit Integration ${ }^{(5)}$ | - | - | - | - | - | - | - | - | 5.750 | - | - | 9.100 | - | - | - | - | - | 9.100 |
| Subtotal: Support Cost | - | - | 2.191 | - | - | 1.671 | - | - | 9.539 | - | - | 21.734 | - | - | - | - | - | 21.734 |
| Gross/Weapon System Cost | 3,814K | 99 | 377.594 | 3,118K | 43 | 134.065 | 3,359K | 48 | 161.212 | 3,767K | 60 | 226.022 | - | - | 0.000 | 3,767K | 60 | 226.022 |

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

## Footnotes:


 reduced overall quantities with only USN \& USAF procuring.
${ }^{(2)}$ Contractor ECO set at $1 \%$ of AUR cost to account for predicted obsolescence or ECPs required to maintain producibility.
${ }^{(3)}$ Procurement and installations of updated Weapon Data Link to satisfy compliance of NSA crypto modification mandate.
${ }^{(4)}$ Government and contractor support for LRASM 1.1 capability Operational Test to include the first live fire test event to satisfy Congressional direction.
${ }^{(5)}$ Incorporation of Telemetry Kits into AUR assets for utilization in LRASM 1.1 capability Operational Test events to satisfy Congressional direction.

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  | P-1 Line Item Number / Title: 2291 / LRASM |  |  |  | Item Number / Title [DODIC]: 1 / LRASM |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | $\begin{gathered} \text { Date } \\ \text { of First } \\ \text { Delivery } \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost <br> (8) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) All Up Round (AUR) ${ }^{(\dagger)}$ |  | $2018{ }^{(6)}$ | Lockheed Martin Missiles and Fire Control / Orlando, FL | SS/FPIF | Eglin AFB | Nov 2018 | Sep 2020 | 34 | 3,572K | Y |  | Jun 2017 |
| 1.1.1) All Up Round (AUR) ${ }^{(\dagger)}$ |  | $2019{ }^{(7)}$ | Lockheed Martin Missiles and Fire Control / Orlando, FL | SS/FPIF | Eglin AFB | Apr 2020 | Dec 2021 | 34 | 3,652K | Y |  | Jan 2019 |
| 1.1.1) All Up Round (AUR) ${ }^{(\dagger)}$ |  | $2020{ }^{(8)}$ | Lockheed Martin Missiles and Fire Control / Orlando, FL | SS/FFP | Eglin AFB | Feb 2021 | Dec 2022 | 17 | 2,925K | Y |  | Feb 2020 |
| 1.1.1) All Up Round (AUR) ${ }^{(\dagger)}$ |  | $2021{ }^{(9)}$ | Lockheed Martin Missiles and Fire Control / Orlando, FL | SS/FFP | Eglin AFB | Feb 2021 | Mar 2023 | 43 | 2,925K | Y |  | Feb 2020 |
| 1.1.1) All Up Round (AUR) ${ }^{(\dagger)}$ |  | $2022{ }^{(10)}$ | Lockheed Martin Missiles and Fire Control / Orlando, FL | SS/FFP | Eglin AFB | Nov 2021 | Jun 2024 | 48 | 2,925K | Y |  | Mar 2021 |
| 1.1.1) All Up Round (AUR) ${ }^{(\dagger)}$ |  | $2023{ }^{(11)}$ | Lockheed Martin Missiles and Fire Control / Orlando, FL | SS/FFP | Eglin AFB | Feb 2023 | Oct 2024 | 60 | 3,290K | N | Jan 2022 | Mar 2022 |

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

## Footnotes:

${ }^{(6)}$ Award date represents actual for both U.S. Air Force and U.S. Navy procurements.
${ }^{(7)}$ Award date represents actual for both U.S. Air Force and U.S. Navy procurements.
${ }^{(8)}$ Award date represents U.S. Navy procurement. FY 2020 (Lot 4) AUR combined with FY 2021 (Lot 5) AUR award
${ }^{(9)}$ Award date represents U.S. Air Force, U.S. Navy, and FMS procurement. USN FY 2020 (Lot 4) AUR combined with FY 2021 (Lot 5) AUR award
${ }^{(10)}$ Award date represents a U.S. Navy only procurement. Lot 6 is an option exercise on the Lot $4 / 5$ contract
${ }^{(11)}$ Award date represents both U.S. Air Force and U.S. Navy procurements

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 2291 / LRASM |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / LRASM |  |  |
| $\begin{array}{\|c} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | der |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 | MAX For 2023 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Lockheed Martin Missiles and Fire Control - Orlando, FL | 12 | 120 | 120 | 0 | 10 | 14 | 24 | 0 | 5 | 20 | 25 |

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

## Footnotes:

${ }^{(12)}$ Air Force Lot 2 procurement is 15 units. Navy Lot 2 procurement is 35 units -1 unit procured with FY 2019 dollars, 34 units procured with FY 2018 dollars.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Elem | ents for Code | B Items: N/ |  |  | Other Relate | Program El | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | 26 | 15 | 32 | 39 | - | 39 | 15 | 20 | 24 | 22 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 62.656 | 31.610 | 52.377 | 59.034 | 0.000 | 59.034 | 29.873 | 28.716 | 30.208 | 31.736 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 62.656 | 31.610 | 52.377 | 59.034 | 0.000 | 59.034 | 29.873 | 28.716 | 30.208 | 31.736 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 62.656 | 31.610 | 52.377 | 59.034 | 0.000 | 59.034 | 29.873 | 28.716 | 30.208 | 31.736 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | 1.358 | 2.841 | - | 2.841 | 2.865 | 2.924 | 2.960 | 3.002 | Continuing | Continuing |
| Flyaway Unit Cost (\$ in Dollars) | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | 2,410K | 2,107K | 1,637K | 1,514K | - | 1,514K | 1,992K | 1,436K | 1,259K | 1,443K | Continuing | Continuing |

## Description:

 (WS) consists of a Missile Launch System (MLS) and a complement of missiles.
-Missile Launch System components include: a Launch Mechanism, Operator Interface, and Fire Control System which are procured with Other Procurement, Navy (OPN) Funds.


 and electrically connect to the Missile Launch System without being exposed to the environment.

Line item previously referred to as Littoral Combat Ship (LCS) Over the Horizon (OTH) Missile.
Other Related Budgets: PMC LI 2292, OPN LI 5231, RDTEN PE 0604756N/2070, OMN PE 0204228N BLI 1D4D/14D90

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles

*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:

 anti-surface offensive capability to improve the ship's ability to defend against enemy surface ships.

Production Engineering Support - Original Equipment Manufacturer (OEM) funding supports: development of processes to ensure equipment quality and procedures to effectively operate and maintain its reliability; acquisition and cataloging of spare parts to maintain required system availability; managing the configuration baseline (hardware and software) and addressing parts obsolesce issues; acquisition and maintenance of production test equipment; participation in Configuration Control Boards (CCB); implementation of Engineering Change Proposals (ECPs) as needed; collection and analysis of production test metrics; implementation of a Quality Program Plan (QPP); maintenance of a Failure Analysis and Corrective Action Report Database (FRACAS). This is a time based support element that represents production engineering support over the procurement buy and not tied to quantity.

Engineering Support Government and Contractor funding supports: Computer Resources used to identify, plan, resource, and acquire facilities, hardware, software, documentation, manpower and personnel necessary for planning and management of mission critical systems. Government Product Support Management in compliance with the critical acquisition of Product Support Manager (PSM) in accordance with Section 805 of Public Law 111-84. Assist with Demilitarization (DEMIL)/disposal plans, Command Pass Coordinator (CPC), review of ECPs, Milestone Decision Authority (MDA) requirements, risk assessment, Curriculum Design, performance improvement, cost, manage Material Potentially Presenting an Explosive Hazards (MPPEH). Contract Program Management Office (PMO) Subject Management Experts(s) (SME(s)) provide direct support to the PMO by assisting the program manager with day-to-day acquisition and technical requirements. Develop Technical Manuals (revision of contractor provided manuals) and alignment with USN standards. Support OTH WS Integrated Product Teams, Program Management Reviews and Critical Reviews. System Engineering \& Safety Block 1A review and approval. Participate in Production Readiness Reviews. Conduct assessment of production test data.

Major adjustments:
1.1.1) Navy and USMC will bundle NSM procurements in order to realize cost savings through stepladder pricing. FY 2022 decrease of - $\$ 6.954$ for delay of contract award. NSM procurement quantity decreased from 34 by -2 to 32 . Unit cost decrease due to stepladder price adjustments after USMC and DON combined NSM procurements in FY 2022. Unit cost and quantity may fluctuate during the year of execution.

Due to a technical error P40 differs from the P5. P5 reflects accurate FY 2023(36), FY 2024(17), FY 2025(16), FY 2026(17) and FY 2027(18)quantities. Quantities will be corrected by next budget cycle. Unit costs remain consistent with stepladder pricing model.
2.1) Production Engineering Support provides for both DON and USMC. FY 2023 increase required to support additional DON (36) and USMC (115) NSM missile procurements.
2.2) Engineering Support Government and Contractor provides for both the DON and USMC. FY 2023 increase required to support DON (36) and USMC (115) NSM missile procurements.

Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 2
## P-1 Line Item Number / Title: 2292 / Naval Strike Missile (NSM)

Date: April 2022

## Item Number / Title [DODIC]:

1/ Naval Strike Missile

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

| Resource Summary |  |  |  |  |  |  |  |  |  |  |  | FY 2023 Base |  |  | FY 2023 OCO |  | FY 2023 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | 26 |  | 15 |  | 32 |  |  | 39 |  | - |  | 39 |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 62.656 |  | 31.610 |  | 52.37 |  |  | . 034 |  | 0.000 |  | 59.034 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 62.656 |  | 31.610 |  | 52.37 |  |  | . 034 |  | 0.000 |  | 59.034 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 62.656 |  | 31.610 |  | 52.37 |  |  | . 034 |  | 0.000 |  | 59.034 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | 1.358 |  |  | 841 |  | - |  | 2.841 |
| Gross/Weapon System Unit Cost (\$ in Dollars) |  |  |  |  |  |  | 2,410K |  | 2,107K |  | 1,637K |  |  | 4K |  | - |  | 1,514K |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Hardware Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) Naval Strike Missile ${ }^{(\dagger)(1)}$ | 2,080K | 26 | 54.067 | 1,854K | 15 | $5 \quad 27.816$ | 1,524K | 32 | 48.782 | 1,516K | 36 | 54.585 | - |  | - - | 1,516K | 36 | 54.585 |
| Subtotal: Recurring Cost | - | - | 54.067 | - | - | 27.816 | - | - | 48.782 | - | - | 54.585 | - |  | - - | - | - | 54.585 |
| Subtotal: Hardware Cost | - | - | 54.067 | - | - | 27.816 | - | - | 48.782 | - | - | 54.585 | - |  | - | - | - | 54.585 |
| Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1) Production Engineering Support OEM ${ }^{(2)}$ | - | - | 6.971 | - | - | 1.900 | - | - | 2.212 | - | - | 2.749 | - |  | - - | - | - | 2.749 |
| 2.2) Engineering Support Government and Contractor ${ }^{(3)}$ | - | - | 1.618 | - | - | 1.894 | - | - | 1.383 | - | - | 1.700 | - |  | - - | - | - | 1.700 |
| Subtotal: Support Cost | - | - | 8.589 | - | - | 3.794 | - | - | 3.595 | - | - | 4.449 | - |  | - - | - | - | 4.449 |
| Gross/Weapon System Cost | 2,410K | 26 | 62.656 | 2,107K | 15 | 531.610 | 1,637K | 32 | 52.377 | 1,514K | 39 | 59.034 | - |  | 0.000 | 1,514K | 39 | 59.034 |

## Remarks:




 represents production engineering support over the procurement buy and not tied to quantity.

| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |
| :---: | :---: | :---: |
|  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) |  | MDAP/MAIS Cod |
| Engineering Support Government and Contractor funding supports: Computer Resources used to identify, plan, resource, and acquire facilities, hardware, software, documentation, manpower and personnel necessary for planning <br> and management of mission critical systems. Government Product Support Management in compliance with the critical acquisition of Product Support Manager (PSM) in accordance with Section 805 of Public Law 111-84. Assist <br> with Demilitarization (DEMIL)/disposal plans, Command Pass Coordinator (CPC), review of ECPs, Milestone Decision Authority (MDA) requirements, risk assessment, Curriculum Design, performance improvement, cost, manage <br> Material Potentially Presenting an Explosive Hazards (MPPEH). Contract Program Management Office (PMO) Subject Management Experts(s) (SME(s)) provide direct support to the PMO by assisting the program manager with <br> day-to-day acquisition and technical requirements. Develop Technical Manuals (revision of contractor provided manuals) and alignment with USN standards. Support OTH WS Integrated Product Teams, Program Management <br> Reviews and Critical Reviews. System Engineering \& Safety Block 1A review and approval. Participate in Production Readiness Reviews. Conduct assessment of production test data. <br> $\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a <br> Footnotes: <br> ${ }^{(1)}$ FY 2021-FY 2027 unit costs based on stepladder pricing, which decreases with increased quantities. OTH missile procurement continues to support Fleet deployments. FY 2022 decrease due to - $\$ 6.954$ Congressional reduction for delay of contract award. NSM procurement quantity decreased from 34 by -2 to 32 . Unit cost decrease due to stepladder price adjustments after USMC and DON combined NSM procurements in FY 2022. Due to a technical error P40 differs from the P5. P5 reflects accurate FY 2023(36), FY 2024(17), FY 2025(16), FY 2026(17) and FY 2027(18)quantities. Quantities will be corrected by next budget cycle. Unit costs remain consistent with stepladder pricing model. <br> ${ }^{(2)}$ Production Engineering Support provides for both the DON and USMC. FY 2023 increase required to support additional DON (36) and USMC (115) NSM missile procurements. <br> ${ }^{(3)}$ Engineering Support Government and Contractor provides for both the DON and USMC. FY 2023 increase required to support DON (36) and USMC (115) NSM missile procurements. |  |  |
|  |  |  |

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Naval Strike Missile |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budg 1507N / 02 / 2 |  | ty / Bu | et Sub Activity: | P-1 Line Item Number / Title: 2292 / Naval Strike Missile (NSM) |  |  |  |  |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost <br> (s) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) Naval Strike Missile ${ }^{(t)}$ |  | 2019 | Raytheon CO / Tucson AZ | C/FFP | NAVSEA | Dec 2018 | Dec 2020 | 8 | 2,462K | Y |  | Feb 2017 |
| 1.1.1) Naval Strike Missile ${ }^{(t)}$ |  | 2020 | Raytheon CO / Tucson AZ | C/FFP | NAVSEA | Feb 2020 | Feb 2022 | 18 | 1,909K | Y |  | Feb 2017 |
| 1.1.1) Naval Strike Missile ${ }^{(+)}$ |  | 2021 | Raytheon CO / Tucson AZ | C/FFP | NAVSEA | Mar 2021 | Mar 2023 | 15 | 1,854K | Y |  | Feb 2017 |
| 1.1.1) Naval Strike Missile ${ }^{(t)}$ |  | $2022{ }^{(4)}$ | Raytheon CO / Tucson AZ | C/FFP | NAVSEA | May 2022 | May 2024 | 32 | 1,524K | Y |  | Feb 2017 |
| 1.1.1) Naval Strike Missile ${ }^{(t)}$ |  | $2023{ }^{(5)}$ | Raytheon CO / Tucson AZ | C/FFP | NAVSEA | Dec 2022 | Dec 2024 | 36 | 1,516K | Y |  | Feb 2017 |

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

## Footnotes:

${ }^{(4)}$ NSM procurements award immediately upon funds availability
${ }^{(5)}$ NSM procurements award immediately upon funds availability

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2292 / Naval Strike Missile (NSM) |  |  |  |  |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 1 / Naval Strike Missile |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  | FY | SERVICE | $\stackrel{\text { PROC }}{\text { OTY }}$ | ACCEPT <br> PRIOR <br> TO 1 <br> OCT <br> 2020 | $\begin{array}{\|c\|c} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{array}$ |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A P R | M | J U N | J | A U G | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | $\xrightarrow{\text { M }}$ | J U | J | A U G | $\underset{\mathrm{E}}{\mathrm{S}}$ |  |
| 1.1.1) Naval Strike Missile ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2019 | NavY | 8 | 0 | 8 | - | - | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  | 2020 | NavY | 18 | 0 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 18 |  |  |  |  |  |  |  | 0 |
|  | 2021 | NavY | 15 | 0 | 15 |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | 15 |
|  | 2022 | NavY | 32 | 0 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - |  | - | - | 32 |
|  | 2023 | NavY | 36 | 0 | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 36 |
|  |  |  |  |  |  | O c T | N | ( | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A P R | $\xrightarrow{\text { M }}$ | J | J | A | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | $\xrightarrow{\text { M }}$ | J U N | ${ }_{\text {J }}$ | A U G | $\xrightarrow{\text { E }}$ |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: 1 / Naval Strike Missile |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2292 / Naval Strike Missile (NSM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  | SERVICE | $\stackrel{\text { PROC }}{\text { OTY }}$ | ACCEPT <br> PRIOR <br> TO <br> OCT <br> OCT <br> 2022 | $\begin{array}{\|c\|c} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{array}$ |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
|  | FY |  |  |  |  | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A <br>  <br> $\mathbf{P}$ <br> R | M | J U N | J L | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { v } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br>  <br> $\mathbf{R}$ <br> $\mathbf{R}$ | M A Y | J |  | A | S E P |  |
| 1.1.1 | Naval S | trike Missile |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2019 | NavY | 8 | 8 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  | 2020 | NavY | 18 | 18 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  | 2021 | NavY | 15 | 0 | 15 | - | - | - | - | - | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  | 2022 | NAVY | 32 | 0 | 32 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |  |  |  |  | 0 |
|  | 2023 | NAVY | 36 | 0 | 36 |  |  | A - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - |  |  |  |  |  | - | 36 |
|  |  |  |  |  |  | O c T | N V V | D D C c | J A N | $\underset{\mathrm{E}}{\mathrm{F}}$ | $\begin{aligned} & \hline \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br> P <br> R | $\xrightarrow{\text { M }}$ | J U N | J | A | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br>  <br> P <br> R | M A Y | N |  | A U G | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 2292 / Naval Strike Missile (NSM) |  |  |  |  | Item Number / Title [DODIC]: 1 / Naval Strike Missile |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 |
| 1 | Raytheon CO- Tucson AZ |  |  | 250 | 0 | 0 | 24 | 24 | 0 | 0 | 24 | 24 |

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

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification of Missiles

|  |  | 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 2021 | FY 2022 | $\text { FY } 2023$ Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 143.563 | 172.074 | 435.308 | 0.000 | 435.308 | 403.892 | 412.658 | 438.281 | 440.911 | 3,660.347 | 6,107.034 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 143.563 | 172.074 | 435.308 | 0.000 | 435.308 | 403.892 | 412.658 | 438.281 | 440.911 | 3,660.347 | 6,107.034 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 143.563 | 172.074 | 435.308 | 0.000 | 435.308 | 403.892 | 412.658 | 438.281 | 440.911 | 3,660.347 | 6,107.034 |
| (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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Tactical Tomahawk (TACTOM) provides an attack capability against fixed and mobile targets, and can be launched from both surface ships (RGM) and submarines (UGM). The TACTOM Modernization profile includes Recertification, Navigation Communication Modernization upgrades (NAVCOMMs), Maritime Strike Tomahawk (MST), Military Code (M-CODE) and Joint Multiple Effects Warhead System (JMEWS). Initial procurement of TACTOM, as well as modification funds executed in FY 2020 and prior, are budgeted under BLI 2101.

The TACTOM service life for RGM109E and UGM109E Block IV/V Tomahawk cruise missiles is 30 years with a 15 -year deployment and recertification cycle. During the Recertification availability period, Block IV TACTOMS will undergo their 15 -year service life extension activities, and then updated to a modernized Block $V$ configuration with the installation of a NAVCOMM kit.

Recertification is an ACAT II program to recertify the RGM109E and UGM109E Block IV/V Tomahawk cruise missiles service life subsequent to a 15 -year deployment. Inventory objective is 3992 . Recertification activity include the costs associated with the Raytheon labor, vendor recertification of specific components (i.e. mechanical and electrical components), recertification of the MK 45 submarine capsule, missile consumables, fuze recertification, Armed Firing Device (AFD) recertification, installation of Advanced Communication Package (ACP), shipping assets to and from weapon stations, and fuel. Recertification is planned to occur concurrently with installation of NAVCOMMs Modernization Kits, which will replace the existing SDLT radio and antenna

The TACTOM NAVCOMMs upgrades consist of the Integrated Single Box Solution (ISBS) radio, two new antennas and associated cabling, a new mid-body cover, and changes to the aft-body structure and aft-body cover. The ISBS radio is replacing the existing Satelite Data Link Terminal (SDLT), and two new antennas are added to replace the previous antenna. The changes to the missile are driven by the obsolescence of the SDLT hardware and the obsolescence of the UHF Demand Assigned Multiple Access (DAMA) communications infrastructure that is being phased out of service.

MST is a Rapid Deployment Capability that includes seeker kit hardware, assemblies/subassemblies, packaging and storage. Seeker kit hardware procurement includes the sensors, nosecone, ULTRA processor, cooling pump and plumbing, bulkhead, power and signal harnesses, power supply, plumbing and electrical chase insulators, telemetry unit, wiring, hybrid homopolar permanent magnet generator, and Primary Power Interface Unit. Includes modifying existing missile infrastructure to accept/install seeker kit components and assemblies into a modernized Block $V$ missile during the Recertification availability period.

M-CODE is an ACAT IV program that upgrades the TACTOM missile with the next generation, modernized Global Positioning System (GPS) capability. TACTOM M-CODE kits consist of new Anti-Jam GPS Receiver (AGR) hardware/software and installation of the upgrade kit into TACTOM Block V AURs. Fielding of M-Code equipped AURs, enable TACTOM to be compliant with Public Law 111-38, sec 913. MCODE kits will be installed into modernized Block $\vee$ missiles during the Recertification availability.


## Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification

P-1 Line Item Number / Title: of Missiles

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

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Co } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-3a | 1 / TACTOM NAVCOMMs Modernization and Recertification Kits (Increase Capability and Extend Missile Service Life) |  |  | 289 | - 10.000 | - / 143.563 | - / 172.074 | - $/ 435.308$ | - 10.000 | - $/ 435.308$ |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 10.000 | - / 143.563 | - / 172.074 | - 1435.308 | - 10.000 | - 1435.308 |
| Exhibits Schedule |  |  |  |  | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Con } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-3a | 1 / TACTOM NAVCOMMs Modernization and Recertification Kits (Increase Capability and Extend Missile Service Life) |  |  | 289 | - / 403.892 | - / 412.658 | - / 438.281 | - / 440.911 | - / 3,660.347 | - / 6,107.034 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1403.892 | - 1412.658 | - 1438.281 | - $/ 440.911$ | - 13,660.347 | /6,107.034 |

*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:

 supports the procurement of 274 TACTOM NAVCOMMs modernization kits in FY 2023 to be installed in FY 2024 into the 274 missiles undergoing Recertification in FY 2024.

 to meet the planned IOC date of 4QFY27.

Increase from 2022 to 2023 due to a reallocation of funds, there is no cost increase - details held at a higher classification.

Exhibit P-3a, Individual Modification: PB 2023 Navy

| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  | P-1 Line Item Number / Title: 2301 / Tomahawk Mods |  |  |  |  |  | Modification Number / Title: <br> 1 / TACTOM NAVCOMMs Modernization and Recertification Kits |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  | MDAP/MAIS Code: 289 |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 143.563 | 172.074 | 435.308 | 0.000 | 435.308 | 403.892 | 412.658 | 438.281 | 440.911 | 3,660.347 | 6,107.034 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Mililions) | 0.000 | 143.563 | 172.074 | 435.308 | 0.000 | 435.308 | 403.892 | 412.658 | 438.281 | 440.911 | 3,660.347 | 6,107.034 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 143.563 | 172.074 | 435.308 | 0.000 | 435.308 | 403.892 | 412.658 | 438.281 | 440.911 | 3,660.347 | 6,107.034 |
| (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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Tactical Tomahawk (TACTOM) provides an attack capability against fixed and mobile targets, and can be launched from both surface ships (RGM) and submarines (UGM). The TACTOM Modernization profile includes Recertification, Navigation Communication Modernization upgrades (NAVCOMMs), Maritime Strike Tomahawk (MST), Military Code (M-CODE) and Joint Multiple Effects Warhead System (JMEWS). Initial procurement of TACTOM, as well as modification funds executed in FY 2020 and prior, are budgeted under BLI 2101.

The TACTOM service life for RGM109E and UGM109E Block IV/V Tomahawk cruise missiles is 30 years with a 15 -year deployment and recertification cycle. During the Recertification availability period, Block IV TACTOMS will undergo their 15 -year service life extension activities, and then be updated to a modernized Block $V$ configuration with the installation of a NAVCOMM kit.

Recertification is an ACAT II program to recertify the RGM109E and UGM109E Block IV/V Tomahawk cruise missiles service life subsequent to a 15-year deployment. Inventory objective is 3992. The yearly recertification profile will limit the missile backlog within the Fleet due to the expiration of life limiting components. Recertification activity include the costs associated with the Raytheon labor, vendor recertification of specific components (i.e. mechanical and electrical components), recertification of the MK 45 submarine capsule, missile consumables, fuze recertification, Armed Firing Device (AFD) recertification, installation of Advanced Communication Package (ACP), shipping assets to and from weapon stations, and fuel. Recertification is planned to occur concurrently with installation of NAVCOMMs Modernization Kits, which will replace the existing SDLT radio and antenna.

The TACTOM NAVCOMMs upgrades consist of the Integrated Single Box Solution (ISBS) radio, two new antennas and associated cabling, a new mid-body cover, and changes to the aft-body structure and aft-body cover. The ISBS radio is replacing the existing Satellite Data Link Terminal (SDLT), and two new antennas are added to replace the previous antenna. The changes to the missile are driven by the obsolescence of the SDLT hardware and the obsolescence of the UHF Demand Assigned Multiple Access (DAMA) communications infrastructure that is being phased out of service.

MST is a Rapid Deployment Capability that includes seeker kit hardware, assemblies/subassemblies, packaging and storage. Seeker kit hardware procurement includes the sensors, nosecone, ULTRA processor, cooling pump and plumbing, bulkhead, power and signal harnesses, power supply, plumbing and electrical chase insulators, telemetry unit, wiring, hybrid homopolar permanent magnet generator, and Primary Power Interface Unit. Includes modifying existing missile infrastructure to accept/install seeker kit components and assemblies into a modernized Block V missile during the Recertification availability period.

M-CODE is an ACAT IV program that upgrades the TACTOM missile with the next generation, modernized Global Positioning System (GPS) capability. TACTOM M-CODE kits consist of new Anti-Jam GPS Receiver (AGR) hardware/software and installation of the upgrade kit into TACTOM Block V AURs. Fielding of M-Code equipped AURs, enable TACTOM to be compliant with Public Law 111-38, sec 913. MCODE kits will be installed into modernized Block $V$ missiles during the Recertification availability.

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| Exhibit P-3a, Individual Modification: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 | P-1 Line Item Number / Title: 2301 / Tomahawk Mods | Modification Number / Title: <br> 1 / TACTOM NAVCOMMs Modernization and Recertification Kits |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) |  | MDAP/MAIS Code: 289 |
| JMEWS is an ACAT III program to develop, produce and field a new warhead for the Block V Tomahawk Cruise Missile. JMEWS will greatly expand the land target set that the Tomahawk missile is capable of defeating, by combining the blast and fragmentation capabilities of the current warhead with a new penetration capability and improved mission planning. JMEWS will also be compliant with Insensitive Munitions requirements, which improve safety during transportation and storage on land and aboard ships and submarines. JMEWS program includes upgrades to the AUR missile, and upgrades to the Tactical Tomahawk Weapons Control System. Theatre Mission Planning Center program upgrades are required and will be completed as part of Other Procurement, Navy budget BLI 5253. JMEWS warheads will be installed into modernized Block V missiles during the Recertification availability. |  |  |

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| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  | P-1 Line Item Number / Title: 2301 / Tomahawk Mods |  |  |  |  |  | Modification Number / Title: <br> 1 / TACTOM NAVCOMMs Modernization and Recertification Kits |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: 289 |  |  |  |  |  |  |  |  |  |  |  |
| Models of Systems Affected: TACTOM | Modification Type: Increase Capability and Extend Missile Service Life |  |  |  |  |  |  | Related RDT\&E PEs: 0204229N |  |  |  |  |
|  | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \hline \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Financial Plan | $\begin{array}{\|c\|} \hline \text { Cty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{c\|} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ |
| Subtotal: Installation | - 10.000 | - /42.438 | - /45.007 | - /47.135 | 1. | - /47.135 | - 164.692 | - 173.302 | - 175.890 | - 173.721 | - 1792.871 | - 11,215.056 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 143.563 | 172.074 | 435.308 | 0.000 | 435.308 | 403.892 | 412.658 | 438.281 | 440.911 | 3,660.347 | 6,107.034 |

## UNCLASSIFIED



## UNCLASSIFIED



## UNCLASSIFIED



## UNCLASSIFIED



## Exhibit P-3a, Individual Modification: PB 2023 Navy <br> Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3

## P-1 Line Item Number / Title: 2301 / Tomahawk Mods

## Date: April 2022

## Modification Number / Title:

1 / TACTOM NAVCOMMs Modernization and Recertification Kits

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

MDAP/MAIS Code: 289

## Modification Item 5 of 5: JMEWS

## Manufacturer Information

| Manufacturer Name: RAYTHEON Company |  |  |  |  |  |  | Manufacturer Location: Not Specified.. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 9 |  |  |  |  |  |  | Production Leadtime (in Months): 12 |  |  |  |  |  |  |
| Dates | FY 2021 |  | FY 2022 |  | FY 2023 | FY 2024 |  | FY 2025 |  | FY 2026 |  | FY 2027 |  |
| Contract Dates |  |  |  |  |  | Jun 2024 |  | Dec 2025 |  | Dec 2026 |  | Dec 2027 |  |
| Delivery Dates |  |  |  |  |  | Jun 2025 |  | Dec 2026 |  | Dec 2027 |  | Dec 2028 |  |
| Installation Information |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Method of Implementation: Contractor:: Installation Name: JMEWS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Cost |  | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | $\text { FY } 2026$ | FY 2027 | To Complete | Total |
|  |  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years |  | - 1- | - 1- | - 1- | - 1- | - 1- | 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- |
| FY 2021 |  | - 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1- |
| FY 2022 |  | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- |
| FY 2023 |  | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- |
| FY 2024 |  | - 1 - | - 1- | - 1 - | - 1- | - 1- | - 1 - | - 1- | $12 / 0.643$ | - 1- | - 1 - | $0 / 0.000$ | $12 / 0.643$ |
| FY 2025 |  | - 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1 - | 40/2.080 | - 1 - | $0 / 0.000$ | 40/2.080 |
| FY 2026 |  | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1 - | 40/2.122 | 0/0.000 | 40/2.122 |
| FY 2027 |  | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | 40/2.411 | 40/2.411 |
| To Complete |  | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1- | - 1 - | 1,198/58.865 | 1,198/58.865 |
| Total |  | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | 12/0.643 | 40/2.080 | 40/2.122 | 1,238/61.276 | 1,330/66.121 |

## Installation Schedule

|  | PYS | FY 2021 |  |  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 1,238 | 1,330 |
| Out | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 3 | 13 | 13 | 10 | 10 | 10 | 10 | 1,258 | 1,330 |

## Footnotes:

${ }^{(1)}$ Cost Element Recertification Kits - Entries for this Cost Code prior to FY 2021 are documented in BLI 2101. Learning curve, quantity variations affecting economy of scale, escalation rates, and costs related to equipment upgrades to prepare missile for Block V upgrades account for the variation in Recertification kit costs across the FYDP. Cost Element Recertification Installs - Induction schedule reflects a six-month production lead-time.

Exhibit P-3a, Individual Modification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity: $1507 \mathrm{~N} / 02$ / 3 <br> P-1 Line Item Number / Title: <br> 2301 / Tomahawk Mods

Date: April 2022

## Modification Number / Title:

1 / TACTOM NAVCOMMs Modernization and Recertification Kits

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

## MDAP/MAIS Code: 289

${ }^{(2)}$ Cost Element NAVCOMMs - Beginning in FY 2021, this Cost Code moved from BLI 2101 to BLI 2301. FY 2021 Installation funding is associated with NAVCOMM Kits procured in FY 2020 with funds budgeted in BLI 2101. Learning curve, quantity variations affecting economy of scale, and escalation rates account for the variation in NAVCOMM kit costs across the FYDP. Production lead-time drives NAVCOMMs kit procurements to occur one year ahead of install into a recertified missile. NAVCOMMs kits are treated as Government Furnished Property (GFP) to recertification and have to be available for missile recertification prior to missile induction. Unit cost increase from FY 2022 to FY 2023 due to economy of scale effects; fewer Nav/Comms Kit components (Radios, Antennas) are being procured for new production TACTOMs, across all services, than in FY2022.
${ }^{(3)}$ Cost Element MST Kits - FY 2023 is the third year of procurement, reduction in kit quantities from PB22 request is due to $\$ 10 \mathrm{M}$ reduction in FY 2022 enactment. Increased cost is largely driven by sub-supplier component cost increases. MST kits are treated as GFP to recertification and must be available for missile recertification prior to missile induction.
${ }^{(4)}$ Cost Element JMEWS Kits: Due to long lead time of 18 months on energetic fills, WPN funding required in FY 2023 to support Kit procurements starting in FY 2024.
${ }^{(5)}$ Cost Element Other Production Support- NAVCOMMS - Unique government and contractor production support and recurring fixed costs that is required per lot of NAVCOMMs Modernization kit. Funding includes engineering support to include hardware repairs, software upgrades and crypto support.
${ }^{(6)}$ Cost Element Support Equipment- NAVCOMMs - Includes unique support and test equipment required to support the integration of the NAVCOMMs Modernization Kits during recertification. Funding includes planning, resourcing and implementing management actions to acquire and support the equipment required to sustain and validate the NAVCOMMs capability/functionality ensuring that TACTOM is available to the warfighter when it is needed.
${ }^{(7)}$ Cost Element Integrated Logistics Support- NAVCOMMs - Includes costs for support equipment management, computer resources support, training and training support, ILS program management, and packaging, handling, storage and transportation as associated with the NAVCOMMs Modernization Kit.
${ }^{(8)}$ Cost Element Other Production Support- Recertification - Unique government and contractor production support and recurring fixed costs that are required per lot of recertification kit. Funding reflects required obsolescence mitigation including avionic, electrical, structures bill of material development, and obsolescence Engineering Change Proposal forecasting in order to support the extended end of service date. During recertification, missiles will not be under warranty and treated as Government Furnished Material (GFM). Therefore, funding also reflects replacement/repair damage to of components, components that fail testing, are damaged and other non-warrantied items replaced at the cost of the Government. Funding increase in FY23 is due to the increase in quantities.
${ }^{(9)}$ Cost Element Support Equipment- Recertification - Costs include modifications/procurement of unique support and test equipment required to enable/support the integration and test of the recertification kit. Funding includes the planning, resourcing, and implementing management actions to acquire and support the equipment required to sustain and validate the capability/functionality ensuring that the TACTOM is available to the warfighter when needed. FY23 increase in cost is to fund an obsolescence re-design of the Mid-Body Range Safety Sub-system (MRSS) Kits necessary to meet program test requirements.
${ }^{(10)}$ Cost Element Integrated Logistics Support- Recertification - Costs include support equipment management, computer resources support, training and training support, ILS program management, and packaging, handling, storage and transportation as associated with the recertification kit.
${ }^{(11)}$ Cost Element MK-45 Support- Recertification - Funding is required to recertify and fund for Non-Recurring Engineering (NRE) associated with recertification and to address obsolescence related to extending the service life of the Composite Capsule Launching System (CCLS) barrels and associated hardware. Funding also reflects procurement of replacement Capsule Launching System (CLS) hardware, support for CLS test equipment parts, and associated CLS maintenance. Funding increase in FY23 is due to the increase in quantities.
${ }^{(12)}$ Cost Element Other Production Support MST - Increase in FY 2023 is due to requirement to fund efforts to support updates on the RECERT line in order to begin MST Kit installation, and to complete nonrecurring engineering in support of increased MST Kit procurement rates across the FYDP. The increased funding also supports updating the RECERT technical data package to accommodate MST Kits to begin installation on the production line including work instructions, test requirements documentation, drawings, process \& article prove-ins, and first article inspections. Updates to MST Kit production required to support increased production rates across the FYDP include kit test requirement document updates, work flow procedures, production line station updates, and increased automation of MST Kit testing. Updates to the MST Kit Technical Data Package (TDP) as required to incorporate changes found during qualification testing, developmental and operational test, and learning from initial low rate production. During recertification, MST kits will not be under warranty and treated as Government Furnished Material (GFM), therefore funding also reflects initial capability set up for replacement/repair of damage to components that fail testing during recertification or in the fleet.
${ }^{(13)}$ Cost Element Support Equipment-MST - Funding increase in FY23 is to perform engineering updates and procurement of MST Kit automated test equipment (ATE) and tooling in order to support increased Kit production rates across the FYDP. This includes adjusting work flow and procedures to support increased throughput.
${ }^{(14)}$ Cost Element Support Equipment - Classified - Increase from 2022 to 2023 due to a reallocation of funds, there is no cost increase - details held at a higher classification.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification of Missiles

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | nts for Cod | B Items: N/A |  |  | Other Related | Program E | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 197 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\text { FY } 2023$ Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | 1,076 | 99 | 108 | 136 | - | 136 | 146 | 280 | 286 | 293 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 1,596.166 | 212.637 | 248.619 | 282.035 | 0.000 | 282.035 | 308.103 | 542.367 | 555.245 | 562.940 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,596.166 | 212.637 | 248.619 | 282.035 | 0.000 | 282.035 | 308.103 | 542.367 | 555.245 | 562.940 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,596.166 | 212.637 | 248.619 | 282.035 | 0.000 | 282.035 | 308.103 | 542.367 | 555.245 | 562.940 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | 1,483K | 2,148K | 2,302K | 2,074K | - | 2,074K | 2,110K | 1,937K | 1,941K | 1,921K | Continuing | Continuing |

## Description:



 missiles.


 conducted in June 2017 onboard the Self Defense Test Ship at
 are being conducted throughout 2020 and into 2021 from AEGIS destroyers and the Self Defense Test Ship.
 platforms in 2025.

Production deliveries began in 2021 with Full Rate Production rounds delivering to the Fleet in 2025. IOC was successfully completed in December 2021.

 yearly missile quantities and the amount of production support necessary for Blk2, an increase in missile quantity will drive some increase in production support.

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification of Missiles

| 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: 197

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1 / Evolved Sea Sparrow Missile (ESSM) | P-5a, P-21 |  |  | 1,076 / 1,596.166 | $99 / 212.637$ | $108 / 248.619$ | 136 / 282.035 | - 10.000 | $136 / 282.035$ |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1,076 / 1,596.166 | 99/212.637 | $108 / 248.619$ | 136/282.035 | - 10.000 | 136/282.035 |

*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:

Program was able to procure an additional 11 ESSM BIk 2 AURs in FY21 due to favorable negotiations for unit cost. The P-5 is updated to reflect actuals and does not match the P-40.
 in the total amount of overall missiles due to the Consortium quantities. FY23 AUR unit costs are based on current Government Cost Estimates.

 AURs (containers).


 Frequency (RF).




 testing and recertification at NMC/Seal Beach is approximately $\$ 5 \mathrm{~K}$ per missile, while the cost at Raytheon is approximately $\$ 25 \mathrm{~K}$ per missile.
 the Production MOU) are based on the updated life-cycle cost estimate completed during MS C (March 2019).
FY23 Production Support details are below:


 service life.
2.) Security and Infrastructure Support (\$8.899M): Costs required for the shared (across multiple DOD missiles) production facility in Tucson, AZ.
3.) Configuration Management (\$570K): Support for the system performance per the Navy weapon specifications.

| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy | Date: April 2022 |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification <br> of Missiles | P-1 Line Item Number / Title: <br> 2307 / Evolved Sea Sparrow Missile (ESSM) |

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

## Line Item MDAP/MAIS Code: 197

4.) Hardware/Maintenance Support (\$2.282M): Support for the IOM in the production line.

 production quantities in FY25 and beyond.

## UNCLASSIFIED

## Exhibit P-5, Cost Analysis: PB 2023 Navy <br> Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 3
## P-1 Line Item Number / Title: 2307 / Evolved Sea Sparrow Missile (ESSM)

## Date: April 2022

Item Number / Title [DODIC]:
1 / Evolved Sea Sparrow Missile (ESSM)

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


Hardware - ESSM MISSILES Cost

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.1.1) MK 41 AEGIS ALL UP ROUND MISSILE HARDWARE ${ }^{(\dagger)}$ | 876,463.10 | 542 | 475.043 | - | - | - |
| 2.1.2) MK 29 ALL UP ROUNDS MISSILE HARDWARE ${ }^{(\dagger)}$ | 817,624.73 | 461 | 376.925 | - | - | - |
| 2.1.3) MK 57 ALLUP ROUNDS MISSILE HARDWARE ${ }^{(\dagger)}$ | 1,215K | 30 | 36.455 | - | - | - |

Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 3
## P-1 Line Item Number / Title:

 2307 / Evolved Sea Sparrow Missile (ESSM)Date: April 2022

## Item Number / Title [DODIC]:

1 / Evolved Sea Sparrow Missile (ESSM)

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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$) | $\underset{(\text { Each }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 2.1.4) MK 41 X-BAND ALL UP ROUNDS MISSILE HARDWARE | 858,500.00 | 20 | 17.170 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { 2.1.5) ESSM BLOCK } \\ & 2^{(\dagger)(3)} \end{aligned}$ | 1,737K | 126 | 218.918 | 1,577K | 110 | 173.494 | 1,660K | 108 | 179.231 | 1,615K | 136 | 219.626 | - | - | - | 1,615K | 136 | 219.626 |
| 2.1.6) WARHEAD COMPATIBLE TELEMETER | 70,647.54 | 244 | 17.238 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.1.7) Missile Obsolescence ${ }^{(4)}$ | - | - | 3.131 | - | - | 1.043 | - | - | 3.686 | - | - | 10.604 | - | - | - | - | - | 10.604 |
| Subtotal: Recurring Cost | - | - | 1,144.880 | - | - | 174.537 | - | - | 182.917 | - | - | 230.230 | - | - | - | - | - | 230.230 |
| Subtotal: Hardware - ESSM MISSILES Cost | - | - | 1,144.880 | - | - | 174.537 | - | - | 182.917 | - | - | 230.230 | - | - | - | - | - | 230.230 |

## MISSILES Cost

Hardware - SHIPPING CONTAINERS Cost
Recurring Cost

| 3.1.1) CMBRE <br> Procurement ${ }^{(\dagger)(5)}$ | - | - | - | 154,151.00 | 20 | 3.083 | - | - | - | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3.1.2) CMBRE <br> Adaptors ${ }^{(\dagger)}$ | - | - | - | 91,800.00 | 20 | 1.836 | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.1.3) CMBRE SPARES ${ }^{(\dagger)}$ | - | - | - | 61,951.00 | 3 | 0.186 | - | - | - | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { 3.1.4) CMBRE Power } \\ & \text { Supply }{ }^{(\dagger)} \end{aligned}$ | - | - | - | 18,360.00 | 10 | 0.184 | 18,727.00 | 10 | 0.187 | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { 3.1.5) CMBRE } \\ & \text { Cables }^{(\dagger)} \end{aligned}$ | - | - | - | 5,100.00 | 10 | 0.051 | 5,202.00 | 10 | 0.052 | - | - | - | - | - | - | - | - | - |
| 3.1.6) MK 852 Mod 0 (BLK 2) Shipping Containers ${ }^{(\dagger)}$ | 56,000.00 | 10 | 0.560 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.1.7) ROCKET MOTORS (SEASPARROW) | - | - | 6.396 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.1.8) Test Equipment (6) | - | - | - | - | - | - | - | - | 2.454 | - | - | 7.994 | - | - | - | - | - | 7.994 |
| $\begin{aligned} & \text { 3.1.9) Production } \\ & \text { Capacity }{ }^{(7)} \end{aligned}$ | - | - | - | - | - | - | - | - | 31.420 | - | - | - | - | - | - | - | - | - |
| 3.1.10) ESSM SHIPPING CONTAINERS ${ }^{(\dagger)}$ | 9,092.08 | 467 | 4.246 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 11.202 | - | - | 5.340 | - | - | 34.113 | - | - | 7.994 | - | - | - | - | - | 7.994 |

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Evolved Sea Sparrow Missile (ESSM) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 2307 / Evolved Sea Sparrow Missile (ESSM) |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Subtotal: Hardware SHIPPING CONTAINERS Cost | - | - | 11.202 | - | - | 5.340 | - | - | 34.113 | - | - | 7.994 | - | - | - | - | . | 7.994 |
| Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1) PROCUREMENT SUPPORT | - | - | 268.796 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.2) TOOLING AND TEST SUPPORT | - | - | 42.734 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.3) DIMINISHING MANUFACTURING SERVICES | - | - | 8.531 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.4) PERFORMANCE CHARACTERIZATION | - | - | 29.924 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.5) ILS/FLEET DOCUMENTATION | - | - | 4.024 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.6) COMPONENT IMPROVEMENT/ECPS | - | - | 12.150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.7) PRODUCIBILITY/ PROCUREMENT SUPPORT ${ }^{(8)}$ | - | - | - | - | - | 9.675 | - | - | 9.869 | - | - | 11.545 | - | - | - | - | - | 11.545 |
| 4.8) SECURITY/ INFRASTRUCTURE SUPPORT ${ }^{(9)}$ | - | - | - | - | - | 7.020 | - | - | 7.160 | - | - | 8.899 | - | - | - | - | - | 8.899 |
| 4.9) CONFIGURATION MANAGEMENT ${ }^{(10)}$ | - | - | - | - | - | 0.450 | - | - | 0.459 | - | - | 0.570 | - | - | - | - | - | 0.570 |
| 4.10) HARDWARE/ MAINTENANCE SUPPORT ${ }^{(11)}$ | - | - | - | - | - | 1.800 | - | - | 1.836 | - | - | 2.282 | - | - | - | - | - | 2.282 |
| Subtotal: Support Cost | - | - | 366.159 | - | - | 18.945 | - | - | 19.324 | - | - | 23.296 | - | - | - | - | - | 23.296 |
| Gross/Weapon System Cost | 1,483K | 1,076 | 1,596.166 | 2,148K | 99 | 212.637 | 2,302K | 108 | 248.619 | 2,074K | 136 | 282.035 | - | - | 0.000 | 2,074K | 136 | 282.035 |

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

## Footnotes:

${ }^{(1)}$ There are four (4) missiles per MK 25 Quadpack Canister. Unit prices were updated in FY 2022 \& FY 2023 based upon the fully negotiated contract with options in FY 2022 \& FY 2023.
 BIk 2 AURs in FY24.

Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 3
## P-1 Line Item Number / Title: <br> 2307 / Evolved Sea Sparrow Missile (ESSM)

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

## MDAP/MAIS Code:


 FY21 due to favorable negotiations for unit cost. The P-5 is updated to reflect actuals.


${ }^{(5)}$ CMBRE requirement (power supply, and cables) ends in FY 2022. This was used to reprogram ESSM BIk 2 AURs in deployed locations.




 and recertification at NMC/Seal Beach is approximately $\$ 5 \mathrm{~K}$ per missile, while the cost at Raytheon is approximately $\$ 25 \mathrm{~K}$ per missile.
${ }^{(7)}$ Funding to be awarded to Raytheon to procure production line test equipment required to increase missile production capacity from 25 AURs to 45 AURs per month.




 the amount of production support necessary for Blk2, an increase in missile quantity will generally drive some increase in production support.



 quantity will generally drive some increase in production support.


 drive some increase in production support.


 increase in production support.

| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  |  | Line Item Nu 07 / Evolved Se | er / Title: <br> Sparrow Missi | SM) |  | Item <br> 1 / E | Number / volved Sea | Title Spa | DODIC] <br> row Miss | (ESSM) |
| Cost Elements | 0 C O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty <br> (Each) | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) MK 25 QUADPACK CANISTERS ${ }^{(\dagger)}$ |  | 2016 | BAE / ABERDEEN, SD | SS / FFP | NAVSEA | Mar 2016 | Jun 2017 | 3 | 419,200.00 | Y |  | Feb 2014 |
| 1.1.1) MK 25 QUADPACK CANISTERS ${ }^{(\dagger)}$ |  | 2017 | BAE / ABERDEEN, SD | SS / FFP | NAVSEA | May 2017 | Aug 2018 | 19 | 374,064.00 | Y |  | Feb 2015 |
| 1.1.1) MK 25 QUADPACK CANISTERS ${ }^{(\dagger)}$ |  | 2018 | BAE / ABERDEEN, SD | C/FFP | NAVSEA | Jul 2019 | Oct 2020 | 11 | 480,000.00 | Y |  | Feb 2016 |
| 1.1.1) MK 25 QUADPACK CANISTERS ${ }^{(\dagger)}$ |  | 2019 | BAE / ABERDEEN, SD | C/FFP | NAVSEA | Jul 2019 | Oct 2020 | 11 | 489,600.00 | Y |  |  |
| 1.1.1) MK 25 QUADPACK CANISTERS ${ }^{(\dagger)}$ |  | 2020 | BAE / ABERDEEN, SD | C/FFP | NAVSEA | Feb 2020 | May 2021 | 8 | 608,798.00 | Y |  |  |
| 1.1.1) MK 25 QUADPACK CANISTERS ${ }^{(\dagger)}$ |  | 2021 | BAE / ABERDEEN, SD | C/FFP | NAVSEA | Mar 2021 | Jun 2022 | 20 | 596,386.00 | Y |  |  |
| 1.1.1) MK 25 QUADPACK CANISTERS ${ }^{(\dagger)}$ |  | 2022 | BAE / ABERDEEN, SD | C/FFP | NAVSEA | Mar 2022 | Jun 2023 | 17 | 616,083.00 | Y |  |  |
| 1.1.1) MK 25 QUADPACK CANISTERS ${ }^{(\dagger)}$ |  | 2023 | BAE / ABERDEEN, SD | C/FFP | NAVSEA | Mar 2023 | Jun 2024 | 30 | 634,525.00 | Y |  |  |
| 1.1.3) MK 852 Mod 0 (BIk2 Shipping) |  | 2018 | Raytheon CO / Tucson AZ | SS / FFP | NAVSEA | Aug 2019 | Aug 2019 | 7 | 56,000.00 | Y |  | Oct 2017 |
| 1.1.3) MK 852 Mod 0 (Bik2 Shipping) |  | 2019 | Raytheon CO / Tucson AZ | SS / FFP | NAVSEA | Aug 2019 | Aug 2019 | 5 | 57,680.00 | Y |  | Oct 2018 |
| 1.1.3) MK 852 Mod 0 (BIk2 <br> Shipping) |  | 2021 | Raytheon CO / Tucson AZ | C / TBD | NAVSEA | Oct 2020 | Oct 2020 | 30 | 41,712.00 | N |  |  |
| 1.1.3) MK 852 Mod 0 (BIk2 Shipping) |  | 2022 | Raytheon CO / Tucson AZ | C / TBD | NAVSEA | Oct 2021 | Oct 2021 | 31 | 41,713.00 | N |  |  |
| 1.1.3) MK 852 Mod 0 (BIk2 Shipping) |  | 2023 | Raytheon CO / Tucson AZ | C / TBD | NAVSEA | Oct 2022 | Oct 2022 | 16 | 41,714.00 | N |  |  |
| 2.1.1) MK 41 AEGIS ALL UP ROUND MISSILE HARDWARE |  | 2015 | Raytheon CO ${ }^{(12)}$ / Tucson, AZ | SS / FFP | NAVSEA | Mar 2015 | Mar 2017 | 41 | 1,023K | Y |  | Oct 2013 |
| 2.1.1) MK 41 AEGIS ALL UP ROUND MISSILE HARDWARE |  | 2016 | Raytheon CO ${ }^{(12)}$ / Tucson, AZ | SS / FFP | NAVSEA | Mar 2016 | Mar 2018 | 12 | 1,038K | Y |  | Oct 2014 |
| 2.1.1) MK 41 AEGIS ALL UP ROUND MISSILE HARDWARE |  | 2017 | Raytheon CO ${ }^{(12)}$ / Tucson, AZ | SS / FFP | NAVSEA | May 2017 | May 2019 | 49 | 1,201K | Y |  | Oct 2015 |
| 2.1.2) MK 29 ALL UP ROUNDS MISSILE HARDWARE |  | 2015 | Raytheon CO / Tucson, AZ | SS / FFP | NAVSEA | Mar 2015 | Mar 2017 | 63 | 898,825.40 | Y | Mar 2000 | Jun 2013 |
| 2.1.2) MK 29 ALL UP ROUNDS MISSILE HARDWARE |  | 2016 | Raytheon CO / Tucson, AZ | SS / FFP | NAVSEA | Mar 2016 | Mar 2018 | 18 | 971,944.44 | Y | Mar 2000 | Jun 2014 |
| 2.1.3) MK 57 ALLUP ROUNDS MISSILE HARDWARE |  | 2017 | Raytheon CO / Tucson, AZ | SS / FFP | NAVSEA | Oct 2016 | Oct 2018 | 24 | 1,277K | Y |  |  |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  |  | P-1 Line Item Number / Title: <br> 2307 / Evolved Sea Sparrow Missile (ESSM) |  |  |  | Item Number / Title [DODIC]: <br> 1 / Evolved Sea Sparrow Missile (ESSM) |  |  |  |  |
| Cost Elements | O c 0 | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\underset{\text { (Each) }}{\text { Qty }}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 2.1.5) ESSM BLOCK $2^{(+)}$ |  | 2018 | Raytheon $\mathrm{CO}^{(13)} /$ Tucson, AZ | SS/FFP | NAVSEA | Jul 2019 | Jan 2021 | 31 | 1,748K | Y |  | Oct 2017 |
| 2.1.5) ESSM BLOCK $2^{(+)}$ |  | 2019 | Raytheon $\mathrm{CO}^{(13)} /$ Tucson, AZ | SS/FFP | NAVSEA | Jul 2019 | Jul 2021 | 45 | 1,728K | $Y$ |  | Oct 2018 |
| 2.1.5) ESSM BLOCK $2^{(+)}$ |  | 2020 | Raytheon $\mathrm{CO}^{(13)} /$ Tucson, AZ | SS/FPIF | NAVSEA | Oct 2019 | Oct 2021 | 50 | 1,727K | Y |  | Oct 2019 |
| 2.1.5) ESSM BLOCK $2^{(+)}$ |  | 2021 | Raytheon $\mathrm{CO}^{(13)} /$ Tucson, AZ | SS/FPIF | NAVSEA | Sep 2021 | Sep 2023 | 110 | 1,577K | N | Oct 2020 |  |
| 2.1.5) ESSM BLOCK $2^{(+)}$ |  | 2022 | Raytheon $\mathrm{CO}^{(13)} /$ Tucson, AZ | SS/FPIF | NAVSEA | Nov 2021 | Nov 2023 | 108 | 1,660K | N | Oct 2021 |  |
| 2.1.5) ESSM BLOCK $2^{(+)}$ |  | 2023 | Raytheon $\mathrm{CO}^{(13)} /$ Tucson, AZ | SS/FPIF | NAVSEA | Oct 2022 | Oct 2024 | 136 | 1,615K | N | Oct 2022 |  |
| 3.1.1) CMBRE Procurement |  | 2021 | Northrop Grumman I Huntsville, Alabama | C/TBD | NAVAIR | Nov 2020 | Nov 2020 | 20 | 154,151.00 | N |  |  |
| 3.1.2) CMBRE Adaptors |  | 2021 | Northrop Grumman / Huntsville, Alabama | C/TBD | NAVAIR | Nov 2020 | Nov 2020 | 20 | 91,800.00 | N |  |  |
| 3.1.3) CMBRE SPARES |  | 2021 | Northrop Grumman I Huntsville, Alabama | C/TBD | NAVAIR | Nov 2020 | Nov 2020 | 3 | 61,951.00 | N |  |  |
| 3.1.4) CMBRE Power Supply |  | 2021 | Northrop Grumman / Huntsville, Alabama | C/TBD | NAVAIR | Oct 2020 | Oct 2020 | 10 | 18,360.00 | N |  |  |
| 3.1.4) CMBRE Power Supply |  | 2022 | Northrop Grumman / Huntsville, Alabama | C/TBD | NAVAIR | Oct 2021 | Oct 2021 | 10 | 18,727.00 | N |  |  |
| 3.1.5) CMBRE Cables |  | 2021 | Northrop Grumman / Huntsville, Alabama | C/TBD | NAVAIR | Oct 2020 | Oct 2020 | 10 | 5,100.00 | N |  |  |
| 3.1.5) CMBRE Cables |  | 2022 | Northrop Grumman / Huntsville, Alabama | C/TBD | NAVAIR | Oct 2021 | Oct 2021 | 10 | 5,202.00 | N |  |  |
| $\text { 3.1.6) MK } 852 \text { Mod } 0 \text { (BLK 2) }$ <br> Shipping Containers ${ }{ }^{(\dagger)}$ |  | 2018 | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Sep 2018 | Sep 2019 | 10 | 56,000.00 | Y |  |  |
| 3.1.10) ESSM SHIPPING CONTAINERS |  | 2015 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Mar 2015 | May 2017 | 63 | 6,031.75 | Y | Mar 2000 | Oct 2014 |
| 3.1.10) ESSM SHIPPING CONTAINERS |  | 2016 | Raytheon CO / Tucson, AZ | SS/FFP | NAVSEA | Dec 2016 | Feb 2019 | 18 | 6,166.67 | Y | Mar 2000 | Oct 2015 |

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

## Footnotes:

${ }^{(12)}$ ESSM is a cooperative effort among twelve NATO SEASPARROW nations which contributes to MSR.
${ }^{(13)}$ FRP Test Equipment on contract- won't be available until after FY 2022. MSR Total Quantity includes Consoritum. MSR, 1-8-5, and MAX quantities updated for FY 2022 based on experience from initial production and transition to production progress.

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| Exh | bit P | -21, Prod | ducti | ion Sc | hedul | P | 202 | Nav |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dat | Ap | 20 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { App } \\ & 1507 \end{aligned}$ | ropri $7 \mathrm{~N} /$ | iation / <br> 2 / 3 | Budg | et Acti | vity I |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { I } \\ & \text { ved } \end{aligned}$ |  | Spa |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { Nun } \\ & \text { olve } \end{aligned}$ | $\begin{aligned} & \text { oer } \\ & 1 \mathrm{Se} \end{aligned}$ | Title <br> Spa | DO | IC]: <br> issi | (ES |  |
|  |  | Cost (Units | ements <br> in Each) |  |  |  |  |  |  |  | iscal | 20 |  |  |  |  |  |  |  |  |  |  |  | Fiscal | 202 |  |  |  |  |  | B |
|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  |  | endar | ar 202 |  |  |  |  |  |  |  |  |  | Tr | 2022 |  |  |  | L |
|  | FY | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { QTY } \end{aligned}$ | $\begin{gathered} \text { TO } 1 \\ \text { OCT } \\ 2020 \end{gathered}$ | $\begin{aligned} & \text { DUE } \\ & \text { DS OF } \\ & 1 \text { OCT } \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | J A N | F E B | M A R | A P R | M A Y |  | J | $\mathrm{J}_{\mathrm{u}}^{\mathrm{u}}$ | A U G | S E P | O c T | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | M A Y | J | ${ }_{\text {J }}^{\text {u }}$ | A | S E P | N c c E |
| 1.1.1) | MK 25 | QUADPACK | CANISTER | Rs ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | ears D | eliveries: 145 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2016 | NavY | 3 | 3 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2017 | NavY | 19 | 19 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | NAVY | 11 | 0 | 11 | 1 | - | - | 3 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | NAVY | 11 | 0 | 11 | 1 | 1 | 1 | 1 | 1 |  |  |  | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | NavY | 8 | 0 | 8 | - | - | - | - | - | - | - |  | 1 | - | - | - | 1 | 2 | 2 | 1 |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | NavY | 20 | 0 | 20 |  |  |  |  |  | A - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 1 | 2 | 12 |
| 1 | 2022 | NavY | 17 | 0 | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 17 |
| 1 | 2023 | NavY | 30 | 0 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 |
| 2.1.5) | EsSm | BLOCK $2^{(3)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2018 | NAVY | 31 | 0 | 31 | - | - | - | 4 | - | - | - |  | - | 4 | - | - | - | - | - | 23 |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2019 | NAVY | 45 | 0 | 45 | - | - | - | - | - | - |  |  | - | - | 3 |  | 3 | 4 | 4 | 4 |  | 4 | 4 |  |  | 4 |  |  |  | 0 |
| 2 | 2020 | NAVY | 50 | 0 | 50 | - | - | - | - | - | - | - |  | - | - | - | - | - | 4 | 4 | 4 |  | 4 | 4 |  |  | 4 | 4 | 5 | 5 | 0 |
| 2 | 2021 | NavY | 110 | 0 | 110 |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | 110 |
| 2 | 2022 | NavY | 108 | 0 | 108 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | 108 |
| 2 | 2023 | NavY | 136 | 0 | 136 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 136 |
| 3.1.6) | MK 852 | Mod 0 (BLK | 2) Shipping | g Containe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2018 | NavY | 10 | 10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | - | N | D | A | F | M | A | M |  | u | u | A | S | - | N | D | ${ }_{\text {J }}{ }^{\text {a }}$ | F | M | A <br> P | M A | u | ${ }^{\text {J }}$ | A | $\stackrel{\text { S }}{\text { E }}$ |  |
|  |  |  |  |  |  |  |  | c | N | B | R | R |  |  | $N$ | L | G | P | T | v | c | N | B | R | R | Y | N | L | G | P |  |

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| Exh | bit P | -21, Prod | ducti | ion Sc | hedul | : PB | 202 | Na |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Dat | Apr | 202 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|l\|} \text { App } \\ 150 \end{array}$ | ropr | $\begin{aligned} & \text { iation / } \\ & 02 \text { / } 3 \end{aligned}$ | Budge | et Acti | vity / |  |  |  | vity |  |  | _ine |  | Num Sea |  |  | ssile |  |  |  |  |  |  | Nu | ber $\mathrm{Se}$ | Title <br> Spa | DO | C]: <br> issi | (ES |  |
|  |  | $\begin{aligned} & \hline \text { Cost E } \\ & \text { (Units } \end{aligned}$ | $\begin{aligned} & \text { lements } \\ & \text { in Each } \end{aligned}$ |  |  |  |  |  |  |  | iscal Y | 202 |  |  |  |  |  |  |  |  |  |  | Fiscal | 2024 |  |  |  |  |  | B |
|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  | endar | ar 20 |  |  |  |  |  |  |  |  | Cale | ar Yea | 2024 |  |  |  | L |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|} \hline \mathrm{O} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{o} & \mathrm{O} \\ \hline \end{array}$ | FY | SERVICE | proc QTY | PRIOR <br> TO 1 <br> OCT <br> 2022 | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | 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 | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | A | S | - | N O v | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br> P <br> R | M A Y | J | J | A | S <br>  <br> $\mathbf{E}$ <br> $\mathbf{P}$ | A N C E |
| 1.1.1) | MK 25 | QUADPACK | CANISTER | Rs ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | ears D | eliveries: 145 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2016 | Navy | 3 | 3 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2017 | NAVY | 19 | 19 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | NAVY | 11 | 11 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | NAVY | 11 | 11 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | NAVY | 8 | 8 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | NAVY | 20 | 8 | 12 | 3 | - | - | 3 | 2 | 3 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2022 | NAVY | 17 | 0 | 17 | - | - | - | - | - | - | - | - | 1 | - |  | 4 | 4 |  | 4 |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2023 | NAVY | 30 | 0 | 30 |  |  |  |  |  | A - | - |  | - | - |  | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 22 |
| 2.1.5) | ESSM | BLOCK $2^{(3)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2018 | NAVY | 31 | 31 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2019 | NAVY | 45 | 45 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2020 | NAVY | 50 | 50 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2021 | NAVY | 110 | 0 | 110 | - | - | - | - | - | - | - |  | - | - |  | 9 | 9 |  | 9 | 9 | 9 | 9 | 9 |  | 9 | 10 | 10 |  | 0 |
| 2 | 2022 | NAVY | 108 | 0 | 108 | - | - | - | - | - | - | - |  | - | - |  | - | - |  | 9 | 9 | 9 | 9 | 9 |  | 9 | 9 | 9 | 9 | 9 |
| 2 | 2023 | NAVY | 136 | 0 | 136 | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 136 |
| 3.1.6) | MK 852 | Mod 0 (BLK | 2) Shipping | g Containe |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2018 | Navy | 10 | 10 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | $\bigcirc$ |  | D | J | F | M | A | m | J | J | A | s | $\bigcirc$ | N | D | J | F | M | A | M | J | J | A | s |  |
|  |  |  |  |  |  | $\mathrm{c}_{\mathrm{c}}^{\mathrm{T}}$ | $\stackrel{\text { - }}{ }$ | ${ }_{\text {E }}^{\text {c }}$ | ${ }_{\text {A }} \mathrm{N}$ | ${ }_{\text {E }}$ | A | P P | ${ }_{\text {r }} \mathrm{A}$ | ${ }_{\text {U }}$ | L | ${ }_{\text {u }}$ | $\underset{\text { e }}{\text { E }}$ | ${ }_{\text {c }}^{\text {c }}$ | - | $\begin{aligned} & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | A | $\begin{aligned} & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | A | P | $\stackrel{\text { A }}{\text { ¢ }}$ | ${ }_{\text {U }}$ | ${ }_{\text {L }}$ | ${ }_{\text {U }}^{\text {U }}$ | $\underset{\mathrm{E}}{\mathrm{E}}$ |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  |  |  | P-1 Line Item Number / Title: <br> 2307 / Evolved Sea Sparrow Missile (ESSM) |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Evolved Sea Sparrow Missile (ESSM) |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT <br> After Oct 1 | $\begin{gathered} \text { Manufacturing } \\ \text { PLT } \end{gathered}$ | Total After Oct 1 |
| 1 | BAE - AbERDEEN, SD | 45 | 48 | 72 | 0 | 5 | 15 | 20 | 5 | 5 | 15 | 20 |
| 2 | $\begin{aligned} & \text { Raytheon CO }{ }^{(13)} \text { - Tucson, } \\ & \text { AZ } \end{aligned}$ | 144 | 144 | 300 | 8 | 2 | 24 | 26 | 2 | 2 | 24 | 26 |
| 3 | Raytheon CO - Tucson AZ |  |  | TBD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

" 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:

 production progress.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification of Missiles
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
2327 I AARGM

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

| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | FY 2023 Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 16 | 54 | 69 | - | 69 | 97 | 185 | 204 | 190 | 1,265 | 2,080 |
| Gross/Weapon System Cost (\$ in Millions) | 1,386.011 | 123.650 | 109.835 | 131.275 | 0.000 | 131.275 | 179.671 | 269.832 | 278.237 | 281.751 | 1,922.544 | 4,682.806 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,386.011 | 123.650 | 109.835 | 131.275 | 0.000 | 131.275 | 179.671 | 269.832 | 278.237 | 281.751 | 1,922.544 | 4,682.806 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,386.011 | 123.650 | 109.835 | 131.275 | 0.000 | 131.275 | 179.671 | 269.832 | 278.237 | 281.751 | 1,922.544 | 4,682.806 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 3.640 | 0.445 | 2.763 | - | 2.763 | 4.707 | 5.337 | 5.563 | 5.569 | Continuing | Continuing |
| Flyaway Unit Cost (\$ in Dollars) | - | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | 7,728K | 2,034K | 1,903K | - | 1,903K | 1,852K | 1,459K | 1,364K | 1,483K | 1,520K | 2,251K |

## Description:





 States of America and the Ministry of Defence of the Republic of Italy.


 ER production units will prosecute Integrated Air Defense Systems (IADS) supporting Suppression of Enemy Air Defensed (SEAD)/DEAD missions.

The Procurement Quantity on the P-40 is reflective of AARGM-ER AUR Quantities only.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification of Missiles
ID Code (A=Service Ready, B=Not Service Ready): A $\quad$ Program Elements for Code B Items: N/A $\quad$ Other Related Program Elements: 0205601N

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

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | 1 / AARGM (Added Capability) |  |  | 368 | /1,386.011 | - 178.992 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | $2 /$ AARGM-ER (Added Capability) |  |  | 607 | - 10.000 | - 144.658 | - / 109.835 | - / 131.275 | - 10.000 | / 131.275 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /1,386.011 | 16/123.650 | 54 / 109.835 | 69/131.275 | 10.000 | 69 / 131.275 |
| Exhibits Schedule |  |  |  |  | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | 1 / AARGM (Added Capability) |  |  | 368 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - /1,465.003 |
| P-3a | $2 /$ AARGM-ER (Added Capability) |  |  | 607 | / 179.671 | - 1269.832 | - 1278.237 | - 1281.751 | - /1,922.544 | 13,217.803 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 97/179.671 | 185/269.832 | $204 / 278.237$ | 190/281.751 | 1,265 / 1,922.544 | 2,080/4,682.806 |

*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:

 FTS), support equipment, engineering and logistics support, Engineering Change Orders, Special Tooling/Special Test Equipment (ST/STE), and Diminishing Manufacturing Sources (DMS).
 the LRIP 3 contract. The AARGM-ER LRIP 3 contract will be the first year without cost synergies with the AARGM (AGM-88E) program.

AGM-88G AARGM-ER CATM funding and quantities in FY 2023 are to support fleet training. A quantity of 6 CATMs is planned to award on the LRIP 3 contract.
 containers are planned to award on the LRIP 3 contract.
 testing and provide the flight termination capability required for range safety during live firings.

FY 2023 Support equipment funding includes Common Munitions Bit/Reprogramming Equipment (CMBRE) and unique support equipment.
FY 2023 funding for Engineering Change Orders is required for Cost Improvement Initiatives (CII), safety, and engineering changes (ECPs) to reduce missile cost and improve producibility.
FY 2023 Production Engineering Support funding is required as the program continues to ramp up to full rate production and nears completion of the development program.
 management, Packaging, Handling, Storage and Transportation (PHS\&T), and Dummy Air Training Missiles (DATMs).

| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy |  |  | Date: April 2022 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification of Missiles | P-1 Li <br> 2327 I |  |  |
|  | Program Elements for Code B Items: N/A |  | gram Elements: 02 |
| Line Item MDAP/MAIS Code: N/A |  |  |  |
| FY 2023 funding for Special Tooling/Special Test Equipment (ST/STE) is required to support FY 2024 for AARGM-ER missile components and the fully assembled missile. ST/STE cost supports planning, building, installing, and replacing of ST/STE and production equipment for the common and new component hardware as the program continues to ramp up to meet full rate production capacity requirements. |  |  |  |
| FY 2023 funding for DMS is required to support life-of-type buys due to obsolescent parts and components and other obsolescence issue resolutions. This will be the first year without the shared cost of DMS funding with the AARGM (AGM-88E) program. |  |  |  |
| FY 2023 reduction since the prior President's Budget Submission is due to other miscellaneous/rate adjustments and the USMC deferring procurement until FY 2025 resulting from JSF integration delays. CATM and TM/FTS quantities were reduced in FY23 to prioritize procurement of AGM-88G AARGM-ER Installation Kits. |  |  |  |
| FY 2023- FY 2026 unit cost assumes USAF concurrent procurement of 300 AGM-88G AARGM-ER AURs, which is reflected in USAF PE 0207328F. |  |  |  |

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| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  | P-1 Line Item Number / Title: 2327 I AARGM |  |  |  |  |  | Modification Number / Title: 1 / AARGM |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : |  |  |  |  |  | MDAP/MAIS Code: 368 |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 1,386.011 | 78.992 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1,465.003 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,386.011 | 78.992 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1,465.003 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,386.011 | 78.992 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1,465.003 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

AARGM is an ACAT-1C acquisition program to upgrade the Legacy AGM-88 HARM missile with multi-mode/multi-spectral guidance and enhanced targeting. Full-Rate Production (FRP) decision was granted on 4 September 2012. FRP Lot 10 awarded August 3, 2021 and deliveries commence in April 2023. FY21 is the last year of production for the AGM-88E.

Exhibit P-3a, Individual Modification: PB 2023 Navy

Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3

## P-1 Line Item Number / Title: 2327 I AARGM

Date: April 2022

## Modification Number / Title:

1 / AARGM

ID Code (A=Service Ready, B=Not Service Ready) :
MDAP/MAIS Code: 368

| Models of Systems Affected: AGM-88E |  | Modification Type: Added Capability |  |  |  | Related RDT\&E PEs: 0205601N |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \hline \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2023 \\ & \text { Total } \end{aligned}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
|  | $\begin{array}{\|c\|} \hline \text { Oty (Each)I } \\ \text { Total Cost (\$M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{array}$ | $\begin{gathered} \text { Oty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: AARGM |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) ES010 AUR Installation Kits - Organic ${ }^{(1)}$ | 1,568 / 984.588 | 87/51.421 | 1. | 1. | 1. | 1. | 1. | - | 1. | 1. | 1 - | $\begin{array}{r} 1,6551 \\ 1,036.009 \end{array}$ |
| 1.1.2) ES990 Training Equipment (CATMs) - Organic | $121 / 85.434$ | 1 | - 1- | $1-$ | 1 - | 1 - | 1 - | - 1- | - 1 - | - 1 - | 1. | 121/85.434 |
| Subtotal: Recurring | - 11,070.022 | - /51.421 | 1. | 1. | 1. | 1. | 1. | 1. | . 1 - | - 1- | - 10.000 | - 11,121.443 |
| Subtotal: AARGM | $\begin{array}{r} 1,689 / \\ 1,070.022 \\ \hline \end{array}$ | 87/51.421 | 1. | 1. | 1 | 1 | 1 - | - / - | - / - | 1. | 1 | $\begin{array}{r} 1,776 / \\ 1,121.443 \end{array}$ |
| Subtotal: Procurement, All Modification Items | - 11,070.022 | - /51.421 | 1. | 1. | 1. | - 1- | - 1- | - 1- | - 1- | - 1- | 10.000 | - 11,121.443 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1) ES960 Containers | 845/9.083 | $44 / 0.216$ | 1 - | 1 - | 1 - | 1 - | 1 - | 1 - | 1. | 1. | 1. | $889 / 9.299$ |
| 2.2) Telemetry Sections | 51/21.649 | - 1- | 1. | 1. | 1 - | 1 | 1 | 1. | 1 | - 1 - | - 1- | 51/21.649 |
| 2.3) ES970 Support Equipment | - 18.901 | 1 | $1-$ | $1-$ | $1-$ | $1-$ | $1-$ | $1-$ | 1. | 1. | 1 - | - 18.901 |
| 2.4) ES700 Engineering Change Orders | - 144.428 | - 1 - | 1 | - 1 - | 1 | - 1- | - 1 - | - 1 - | - 1 - | - 1. | - 1 - | - 144.428 |
| 2.5) ES930 Production Engineering Support ${ }^{(2)}$ | 169.009 | - /13.859 | - 1- | - 1- | - 1- | - 1- | 1 - | 1 - | 1 - | 1. | 1 - | - 182.868 |
| 2.6) Non-Recurring Engineering | - 14.111 | - 1- | 1 | $1-$ | 1. | $1-$ | 1 - | 1 - | 1 - | 1 - | 1 - | 14.111 |
| 2.7) ES970 Integrated Logistics Support ${ }^{(3)}$ | - 123.423 | - 13.810 | - 1- | - 1 - | $1-$ | - 1- | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | 127.233 |
| 2.8) ES950 Other Production Support | - 181.275 | - 16.279 | 1 - | 1 - | 1 - | 1 - | 1 - | - 1- | - 1- | 1 - | - 1- | - 187.554 |
| 2.9) ES400 ST/STE for Production Facilitization | - 143.578 | - 12.472 | 1 | 1 - | 1 - | 1. | 1 - | 1 - | 1. | 1. | 1 - | - 146.050 |
| 2.10) ES260 Diminishing Manufacturing Sources (DMS) ${ }^{(4)}$ | - 110.532 | - 10.935 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1- | - 1- | - 1 - | - 111.467 |
| Subtotal: Support | - /315.989 | - /27.571 | - / - | - / - | - / - | - / - | - 1. | - / - | - | 1. | - 10.000 | 1343.560 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | $1 \cdot$ | 1. | 1. | 1. | 1. | 1. | - / - | - 1. | 1. | - 1 - | - 1 - | - 1- |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 1,386.011 | 78.992 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1,465.003 |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  | Date: April 2022 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  | P-1 Line Item Number / Title: 2327 I AARGM |  |  | Modification Number / Title: 1 / AARGM |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : |  |  |  | MDAP/MAIS Code: 368 |  |  |  |
| Modification Item 1 of 1: AARGM |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Northrup Grumman Corporation Defense Systems |  |  |  | Manufacturer Location: Northridge, CA |  |  |  |
| Administrative Leadtime (in Months): 9 |  |  |  | Production Leadtime (in Months): 20 |  |  |  |
| Dates | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
| Contract Dates | Aug 2021 |  |  |  |  |  |  |
| Delivery Dates | Apr 2023 |  |  |  |  |  |  |

## Footnotes:

${ }^{(1)}$ Cost Element 1.1.1 AUR Installation kits budget reflects requirements and updates based on contract actuals and unit costs. FY 2021 is the final procurement lot for the AGM-88E AARGM as priority shifts to investment in the AGM-88G AARGM-ER program.
${ }^{(2)}$ Cost Element 2.5 Production Engineering Support (PES) funding in FY2021 is to support final procurement of FRP-10 through completion of deliveries in 2 nd QTR 2024.
${ }^{(3)}$ Cost Element 2.7 Integrated Logistics Support (ILS) budget line supports costs of maintenance, supply support, support equipment management, computer resources support, training and training support, ILS program management, and Packaging, Handling, Storage and Transportation (PHS\&T). Funding in FY 2021 to support final procurement of FRP-10 through completion of deliveries in 2 nd QTR 2024.
${ }^{(4)} 2.10$ Diminishing Manufacturing Sources (DMSMS) Funding in FY21 is for final Life of Type buys to support baseline AARGM last production lot.

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| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  | P-1 Line Item Number / Title: 2327 I AARGM |  |  |  |  |  | Modification Number / Title: 2 I AARGM-ER |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  | MDAP/MAIS Code: 607 |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | FY 2023 Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 44.658 | 109.835 | 131.275 | 0.000 | 131.275 | 179.671 | 269.832 | 278.237 | 281.751 | 1,922.544 | 3,217.803 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 44.658 | 109.835 | 131.275 | 0.000 | 131.275 | 179.671 | 269.832 | 278.237 | 281.751 | 1,922.544 | 3,217.803 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 44.658 | 109.835 | 131.275 | 0.000 | 131.275 | 179.671 | 269.832 | 278.237 | 281.751 | 1,922.544 | 3,217.803 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Advanced Anti-Radiation Guided Missile Extended Range (AARGM-ER) upgrade includes hardware and software improvements to AARGM's operational capabilities, including extended range, survivability, and effectiveness against complex, new and emerging threats. Planned Initial Operating Capability (IOC) is 4Q FY 2023. The AARGM-ER Low Rate Initial Production (LRIP) 1 awarded in 4Q FY 2021 with expected deliveries beginning in 4Q FY 2023. The AARGM-ER Low Rate Initial Production (LRIP) 2 awarded in 1Q FY 2022 with LRIP 3 expected to award in 1Q FY 2023.

Exhibit P-3a, Individual Modification: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3
ID Code (A=Service Ready, B=Not Service Ready) :

## P-1 Line Item Number / Title: 2327 / AARGM

Date: April 2022
Modification Number / Title:
$2 /$ AARGM-ER

| MDAP/MAIS Code: 607 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Models of Systems Affected: AGM-88G |  | Modification Type: Added Capability |  |  |  |  | Related RDT\&E PEs: 0205601N |  |  |  |  |  |
|  | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | Qty (Each) I Total Cost (\$ M) | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ |  | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | Qty (Each) I Total Cost (\$ M) | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: AARGM-ER |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) ES010 AGM-88G Installation Kits - Organic ${ }^{(5)}$ | 1 - | 16/31.553 | $54 / 86.158$ | $69 / 106.998$ | 1 | 69/106.998 | 97/146.063 | 185/216.707 | 204/229.728 | 190/234.562 | $\begin{array}{\|r\|} \hline 1,265 I \\ 1,613.565 \\ \hline \end{array}$ | $\begin{array}{r} 2,0801 \\ 2,665.334 \end{array}$ |
| 1.1.2) ES990 Training Equipment (CATMs) - Organic ${ }^{(6)}$ | - 1 - | 6/9.660 | 6/9.424 | 6/7.932 | 1 | 6/7.932 | 6/7.584 | $12 / 11.710$ | 12/11.068 | 12/11.966 | $61 / 61.805$ | 121 / 131.149 |
| Subtotal: Recurring | - 10.000 | - /41.213 | - 195.582 | /114.930 | 1 | - 1114.930 | - /153.647 | - /228.417 | - /240.796 | - /246.528 | - /1,675.370 | - /2,796.483 |
| Subtotal: AARGM-ER | - / - | 22/41.213 | 60/95.582 | 75/114.930 | - / - | 75/114.930 | 103/153.647 | 197/228.417 | 216/240.796 | 202/246.528 | $\begin{array}{r} 1,326 / \\ 1,675.370 \\ \hline \end{array}$ | $\begin{array}{r} 2,201 / \\ 2,796.483 \end{array}$ |
| Subtotal: Procurement, All Modification Items | - 10.000 | - /41.213 | - /95.582 | - /114.930 | / - | - /114.930 | - /153.647 | - /228.417 | - /240.796 | - /246.528 | - /1,675.370 | - /2,796.483 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1) ES960 Containers ${ }^{(7)}$ | 1 - | $22 / 0.660$ | $60 / 1.835$ | 75/2.340 | - 1- | $75 / 2.340$ | 103/3.285 | $197 / 6.426$ | $216 / 7.348$ | 20217.055 | 1,326 / 51.845 | 2,201/80.794 |
| 2.2) ES995 Telemetry Sections ${ }^{(8)}$ | 1 - | 1 - | 8/4.584 | 8/4.685 | 1 | 8/4.685 | 8/4.774 | 8/4.864 | 8/4.957 | 8/5.051 | 77/49.229 | $125 / 78.144$ |
| 2.3) ES940 Support Equipment | - 1 - | - 10.948 | - 11.268 | - 10.479 | 1 | - 10.479 | - 10.388 | - 10.755 | - 10.849 | - 10.807 | - 15.994 | - /11.488 |
| 2.4) ES700 Engineering Change Orders ${ }^{(9)}$ | - 1 - | - 1 - | - 10.521 | - 12.719 | 1 | - 12.719 | - 14.834 | - 16.959 | - 16.990 | - 16.526 | - 148.861 | - 177.410 |
| 2.5) ES930 Production Engineering Support ${ }^{(10)}$ | - 1 - | - 10.575 | - 12.415 | - 12.916 | 1 | - 12.916 | - 14.995 | - 17.322 | - 17.440 | - 17.581 | - 144.930 | - 178.174 |
| 2.6) ES970 Integrated Logistics Support ${ }^{(11)}$ | - 1 - | - 10.618 | - 11.719 | - 11.124 | - 1- | - 11.124 | - 11.142 | - 17.182 | - 11.094 | - 11.116 | - / 19.085 | - 133.080 |
| 2.7) ES050 ST/STE for Production Facilitization ${ }^{(12)}$ | 1 | - 10.644 | - /1.791 | - 10.770 | - 1- | - 10.770 | - 15.227 | - 15.000 | - 15.798 | - 14.063 | - 19.544 | - 132.837 |
| 2.8) ES060 Diminishing Manufacturing Sources (DMS) ${ }^{(13)}$ | - 1 - | - 1 - | - 10.120 | - 11.312 | - 1- | 11.312 | - 11.379 | - 12.907 | - 12.965 | - 13.024 | - /17.686 | - 129.393 |
| Subtotal: Support | - 10.000 | - 13.445 | - /14.253 | - /16.345 | 1 | - /16.345 | - /26.024 | - /41.415 | - /37.441 | - /35.223 | - /247.174 | - /421.320 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 44.658 | 109.835 | 131.275 | 0.000 | 131.275 | 179.671 | 269.832 | 278.237 | 281.751 | 1,922.544 | 3,217.803 |


| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  | Date: April 2022 <br> Modification Number / Title: 2 I AARGM-ER |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  | P-1 Line Item Number / Title: 2327 I AARGM |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  | MDAP/MAIS Code: 607 |  |  |  |
| Modification Item 1 of 1: AARGM-ER |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Northrop Grumman Corporation Defense Systems ${ }^{(14)}$ |  |  |  | Manufacturer Location: Northridge, CA |  |  |  |
| Administrative Leadtime (in Months): 3 |  |  |  | Production Leadtime (in Months): 24 |  |  |  |
| Dates | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
| Contract Dates | Sep 2021 | Dec 2021 | Dec 2022 | Dec 2023 | Dec 2024 | Dec 2025 | Dec 2026 |
| Delivery Dates | Sep 2023 | Dec 2023 | Dec 2024 | Dec 2025 | Dec 2026 | Dec 2027 | Dec 2028 |

## Footnotes:

${ }^{(5)}$ Cost Element 1.1.1 AGM-88G AARGM-ER Installation Kits unit cost changed due to USMC procurement phasing changes and inclusion of USAF procurement quantities in FY 2023-FY 2026. The AARGMER LRIP 3 contract, planned to award 1QTR FY 2023, will be the first year without cost synergies with the AARGM (AGM-88E) program.
${ }^{(6)}$ Cost Element 1.1.2 AGM-88G Training Equipment (CATMs) unit cost is correlated with AGM-88G AARGM-ER Installation Kit unit cost due to combined pricing of common hardware and have changed as a result of procurement phasing changes. CATM quantities were reduced in FY 2023 to prioritize procurement of AGM-88G AARGM-ER Installation Kits.
${ }^{(7)}$ Cost Element 2.1 Containers are required one per AUR and one per CATM.
${ }^{(8)}$ Cost Element 2.2 Telemetry Sections quantities were reduced in FY 2023 to prioritize the procurement of AGM-88G AARGM-ER Installation Kits.
${ }^{(9)}$ Cost Element 2.4 Engineering change orders (ECO) increase in FY 2023 supports the qualification of additional material supply sources to mitigate risks driven by the elevated quantity of weapons to be built in production. Additionally, as the program moves from Development and into Full Rate Production a new production facility will be brought on line. This move from hand built units to an assembly line approach will drive changes to process, procedure and material approaches that will need to be resolved.
${ }^{(10)}$ Cost Element 2.5 Production Engineering Support (PES) increases in FY 2023 as the program continues to ramp up to full rate production and nears completion of the development program.
${ }^{(11)}$ Cost Element 2.6 Integrated Logistics Support (ILS) includes costs of maintenance, supply support, support equipment management, computer resources support, training and training support, ILS program management, Packaging, Handling, Storage and Transportation (PHS\&T), and Dummy Air Training Missiles (DATMs).
${ }^{(12)}$ Cost Element 2.7 Special Tooling/Special Test Equipment (ST/STE) funding is for production facilitization that includes rate tooling for AARGM-ER new component hardware to meet production ramp. Production facilitization decreases in FY 2023 and out-year phasing was adjusted to account for USMC procurement phasing changes.
${ }^{(13)}$ Cost Element 2.8 Diminishing Manufacturing Sources funding increases in FY 2023 as it is the first year without the concurrent production and obsolescence mitigation of the baseline AARGM program. The AARGM-ER program will be completely responsible for the purchase of Life-Of-Type Buys (LOTBs) and replacement of parts in varying quantities, inherited from AARGM Guidance and Control Section electronics, which have become obsolete. Funds are required to allow the program to buy LOTB parts and components as well as resolve other obsolescence issues, including updating circuit boards and electronics, which are required for production of AARGM-ER AURs and CATMs until replacement parts are qualified.
${ }^{(14)}$ The program has negotiated to align deliveries to the baseline AARGM Trimester Schedule. All IOC assets and operational test assets will be delivered to meet IOC in September 2023, with remaining LRIP-1 deliveries continuing through December 2023.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification of Missiles

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: N/ |  |  | Other Relate | Program El | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 27.851 | 66.981 | 130.482 | 71.198 | 0.000 | 71.198 | 89.078 | 101.246 | 148.126 | 200.378 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 27.851 | 66.981 | 130.482 | 71.198 | 0.000 | 71.198 | 89.078 | 101.246 | 148.126 | 200.378 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 27.851 | 66.981 | 130.482 | 71.198 | 0.000 | 71.198 | 89.078 | 101.246 | 148.126 | 200.378 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:


 compatible with the new (non-AEGIS) DDG 1000 radar, combat system, X-band link and interrupted continuous wave illumination.


 SM-2 inventory and common technology to provide an affordable mix of complimentary weapons to meet a broad range of mission requirements. The inventory objective is 1,000 units.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity:
$1507 \mathrm{~N}:$ Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification
of Missiles

## P-1 Line Item Number / Title: <br> 2356 / Standard Missiles Mods

 of Missiles| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1/Standard Missiles Mods | P-5a, P-21 |  |  | - / 27.851 | - $/ 66.981$ | - / 130.482 | - 171.198 | - 10.000 | 171.198 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 127.851 | - 166.981 | - / 130.482 | - 171.198 | - 10.000 | 171.198 |

*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 2023 funding request was adjusted by $\$ 2.089 \mathrm{M}$ to account for the availability of prior year execution balances.
 throughout the
Future Years Defense Plan (FYDP).
 required to return
 production line.
 capabilities and the
 IIIC in FY2023
will incorporate lessons learned from the first two low rate initial productions
 prime contractor/
 as the predecessor
 components, and
increased requirements due to SM-2 BLKIIIC specific items, such as jet tab assemblies.
 quality and safety
assurance, documentation, and production test support for SM-2 BLKIIIC. SM-2 BLK IIIC increases in FY2023 to incorporate lessons learned and investigate efficiencies.

## UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  |  |  |  | P-1 Line Item Number / Title: 2356 / Standard Missiles Mods |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Standard Missiles Mods |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2021 |  | FY 2022 |  | FY 2023 Base |  |  | FY 2023 OCO |  | FY 2023 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 27.851 |  | 66.981 |  | 130.482 |  |  | 198 |  | 0.000 |  | 71.198 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 27.851 |  | 66.981 |  | 130.482 |  |  | 198 |  | 0.000 |  | 71.198 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 27.851 |  | 66.981 |  | 130.482 |  |  | 198 |  | 0.000 |  | 71.198 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
|  | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\underset{(\text { Each })}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\underset{(\text { Each })}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\underset{(E a c h)}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | Qty (Each) | Total Cost (\$ M) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 1.1.1) FK007 SM-2 } \\ & \text { BLK IIIC }{ }^{(t)(1)} \end{aligned}$ | - | - | - | 2,163K | 20 | - 43.259 | 1,949K | 40 | 77.952 | 2,146K | 20 | 42.910 | - |  | - | 2,146K | K 20 | 42.910 |
| 1.1.2) FK007 SM-2 BLK IIIC CANISTERS ${ }^{(t)(2)}$ | - | - | - | 184,600.00 | 20 | - 3.692 | 130,150.00 | 40 | 5.206 | 261,800.00 | 20 | 5.236 | - |  | - | 261,800.00 | 20 | 5.236 |
| 1.1.3) FK007 <br> SM-2 BLK IIIAZ <br> MODIFICATION ${ }^{(t)(3)}$ | 581,825.00 | 40 | 23.273 | 850,000.00 | 14 | - 11.900 | 722,925.00 | 40 | 28.917 | - | - | - | - |  | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 23.273 | - | - | 58.851 | - | - | 112.075 | - | - | 48.146 | - |  | - | - | - | 48.146 |
| Subtotal: Hardware HARDWARE Cost | - | - | 23.273 | - | - | 58.851 | - | - | 112.075 | - | - | 48.146 | - |  | - | - | - | 48.146 |
| Hardware - PRODUCTION Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.1) FK830 SM-2 BLK IIIAZ PRODUCTION ENGINEERING/ SUPPORT | - | - | 2.904 | - | - | 0.420 | - | - | 0.420 | - | - | 0.420 | - |  | - | - | - | 0.420 |
| 2.1.3) FK950 SM-2 TOOLS AND TEST EQUIPMENT | - | - | 1.674 | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - |
| 2.1.4) FK957 SM-2 CONTAINERS ${ }^{(4)}$ | - | - | - | - | - | 0.565 | - | - | 1.153 | - | - | 1.763 | - |  | - | - | - | 1.763 |

Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 $1507 \mathrm{~N} / 02$ / 3ID Code (A=Service Ready, B=Not Service Ready) :

| ID Code (A=Service Rea | $B=$ Not Ser | Ready) : |  |  |  |  |  |  |  | /MA | Code: |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Note: Subtotals or Totals | this Exhib | P-5 may | exact | r sum exactly | due to r | ing. |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | ior Yea |  |  | FY 2021 |  |  | FY 2022 |  |  | 2023 B |  |  | 2023 OC |  |  | 2023 To |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 2.1.6) FK980 SM-2 BLK IIIC ILS/FLEET DOCUMENTATION | - | - | - | - | - | 0.510 | - | - | 0.720 | - | - | 0.734 | - | - | - | - | - | 0.734 |
| 2.1.7) FK850 DIMINISHING MANUFACTURING RESOURCES ${ }^{(5)}$ | - | - | - | - | - | - | - | - | 8.283 | - | - | 12.085 | - | - | - | - | - | 12.085 |
| 2.1.8) FK830 SM-2 BLK IIIC PRODUCTION ENGINEERING/ SUPPORT | - | - | - | - | - | 6.555 | - | . | 7.751 | - | - | 8.050 | - | - | - | - | - | 8.050 |
| 2.1.9) FK980 SM-2 BLK IIIAZ ILS/FLEET DOCUMENTATION | - | - | - | - | - | 0.080 | - | - | 0.080 | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 4.578 | - | - | 8.130 | - | - | 18.407 | - | - | 23.052 | - | - | - | - | - | 23.052 |
| Subtotal: Hardware PRODUCTION Cost | - | - | 4.578 | - | - | 8.130 | - | - | 18.407 | - | - | 23.052 | - | - | - | - | - | 23.052 |
| Gross/Weapon System Cost | - | - | 27.851 | - | - | 66.981 | - | - | 130.482 | - | - | 71.198 | - | - | 0.000 | - | - | 71.198 |

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

## Footnotes:

 pending contract award.
 using already fired refurbished canisters to reduce costs. There are currently no more fired canisters to refurbish supporting AUR production.
${ }^{(3)}$ FY 2022 is the last year of BLK IIIAZ procurement
${ }^{(4)}$ Containers increased above inflation from FY22 to FY23 due to the need to procure an extra container to have a spare to handle loss, damaged or destroyed containers





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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Standard Missiles Mods |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  |  | P-1 Line Item Number / Title: 2356 / Standard Missiles Mods |  |  |  |  |  |  |  |  |
| 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 <br> (s) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) FK007 SM-2 BLK IIIC ${ }^{(+)}$ |  | 2021 | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Jun 2021 | Jun 2023 | 20 | 2,163K | Y |  | Jan 2018 |
| 1.1.1) FK007 SM-2 BLK IIIC ${ }^{(+)}$ |  | 2022 | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Jun 2022 | Aug 2024 | 40 | 1,949K | Y |  | Jan 2018 |
| 1.1.1) FK007 SM-2 BLK IIIC ${ }^{(+)}$ |  | 2023 | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Mar 2023 | May 2025 | 20 | 2,146K | Y |  | Oct 2022 |
| 1.1.2) FK007 SM-2 BLK IIIC CANISTERS ${ }^{(\dagger)}$ |  | 2021 | BAE / MINNEAPOLIS, MN | SS/FP | NAVSEA | Aug 2021 | Oct 2022 | 20 | 184,600.00 | Y |  | Mar 2021 |
| 1.1.2) FK007 SM-2 BLK IIIC CANISTERS ${ }^{(\dagger)}$ |  | 2022 | BAE / MINNEAPOLIS, MN | SS/FP | NAVSEA | Mar 2022 | Jun 2023 | 40 | 130,150.00 | Y |  | Oct 2021 |
| 1.1.2) FK007 SM-2 BLK IIIC CANISTERS ${ }^{(\dagger)}$ |  | $2023{ }^{(6)}$ | BAE / MINNEAPOLIS, MN | TBD | NAVSEA | Mar 2023 | Jun 2024 | 20 | 261,800.00 | Y |  | Feb 2022 |
| 1.1.3) FK007 SM-2 BLK IIIAZ MODIFICATION ${ }^{(\dagger)}$ |  | 2017 | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Aug 2017 | Sep 2021 | 7 | 562,454.00 | Y |  | Dec 2015 |
| 1.1.3) FK007 SM-2 BLK IIIAZ MODIFICATION ${ }^{(\dagger)}$ |  | $2018{ }^{(7)}$ | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Dec 2018 | Sep 2021 | 33 | 540,488.00 | Y |  | Dec 2015 |
| 1.1.3) FK007 SM-2 BLK IIIAZ MODIFICATION ${ }^{(\dagger)}$ |  | $2021{ }^{(8)}$ | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Dec 2021 | Jun 2026 | 14 | 850,000.00 | Y |  | Aug 2020 |
| 1.1.3) FK007 SM-2 BLK IIIAZ MODIFICATION ${ }^{(\dagger)}$ |  | $2022{ }^{(9)}$ | Raytheon CO / Tucson AZ | SS/FPIF | NAVSEA | Dec 2021 | Aug 2026 | 40 | 722,925.00 | Y |  | Aug 2020 |

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

## Footnotes:

${ }^{(6)}$ Sole source Compeditive award
${ }^{(7)}$ Lines 1.1.1-1.1.3: P-21 Delivery schedule, reflects contracted delivery dates.
${ }^{(8)}$ Current through P0002
${ }^{(9)}$ Current through P0002

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Standard Missiles Mods |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2356 / Standard Missiles Mods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{aligned} & \text { PROR } \\ & \text { TO } 1 \\ & \text { OCT } \\ & 2018 \end{aligned}$ | $\begin{aligned} & \text { BAL } \\ & \text { DUE } \\ & \text { AS OF } \\ & 1 \text { OCT } \end{aligned}$ | - | N | D E C | J A N | F E B | M A R | A <br>  <br> R | M | J u N | ${ }_{\text {J }}^{\text {J }}$ | A U G | S | O c T | N | D E C | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | F E B | M A R | $\begin{aligned} & \mathrm{A} \\ & \mathbf{P} \\ & \mathbf{R} \end{aligned}$ | M A Y | ${ }_{\text {J }}^{\text {u }}$ | J u L | A U G | S <br> E |  |
| 1.1.1) | FK007 | SM-2 BLK IIIC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2021 | Navy | $20^{(10)}$ | 0 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 20 |
| 1 | 2022 | NavY | 40 | 0 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 40 |
| 1 | 2023 | Navy | 20 | 0 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 20 |
| 1.1.2) | FK007 | SM-2 BLK IIIC | CANISTE | RSS ${ }^{(2)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2021 | NavY | 20 | 0 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 20 |
| 2 | 2022 | Navy | 40 | 0 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 40 |
| 2 | 2023 | NavY | 20 | 0 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 20 |
| 1.1.3) | F007 | SM-2 BLK IIIAZ | z MODIFIC | ICATION ${ }^{(3)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2017 | NavY | 7 | 0 | 7 | - | - | - | - | - | - | - | - | - |  | - |  | - | - | - | - | - | - | - |  | - | - | - | - | 7 |
| 3 | 2018 | NAVY | 33 | 0 | 33 |  |  | A - | - | - | - | - | - | - |  | - |  | - | - | - | - | - | - | - | - | - | - | - | - | 33 |
| 3 | 2021 | NavY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 |
| 3 | 2022 | Navy | 40 | 0 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 40 |
|  |  |  |  |  |  | O c T | N O v | D E c | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A P R | M A Y | J | ${ }_{\text {J }}$ | A | S E P | O c T | N | D E C | J A N | F E B | M A R | A <br> P <br> R | M A Y | ${ }_{\text {J }}^{\text {J }}$ | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Standard Missiles Mods |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2356 / Standard Missiles Mods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC | $\begin{aligned} & \text { TROR } \\ & \text { TOT } \\ & \text { OOT } \\ & \\ & \hline 020 \end{aligned}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | - | 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 | J u N | J u L | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | N | 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 | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J N N | J u L | A | S |  |
| 1.1.1) | FK007 | SM-2 BLK IIIC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2021 | Navy | $20^{(10)}$ | 0 | 20 |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 |
| 1 | 2022 | NavY | 40 | 0 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | 40 |
| 1 | 2023 | Navy | 20 | 0 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 20 |
| 1.1.2) | FK007 | SM-2 BLK IIIC | CANISTE | ERS ${ }^{(2)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 2021 | NavY | 20 | 0 | 20 |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 |
| 2 | 2022 | NAVY | 40 | 0 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 40 |
| 2 | 2023 | NAVY | 20 | 0 | 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 20 |
| 1.1.3) | FK007 | SM-2 BLK IIIAZ | z MODIFII | ICATION ${ }^{(3)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 2017 | NavY | 7 | 0 | 7 | - | - | - | - | - | - | - | - | - | - | - | 7 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2018 | NavY | 33 | 0 | 33 | - | - | - | - | - | - | - | - | - | - | - | 33 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2021 | NavY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | 14 |
| 3 | 2022 | Navy | 40 | 0 | 40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | 40 |
|  |  |  |  |  |  | O c ¢ | N O v | D E C | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \end{aligned}$ | M A R | A P R | M A Y | J | J | A | $\stackrel{\text { S }}{\text { E }}$ | O c T | N | D D E C | J A N | F E B | M <br>  <br> R <br> R | A <br> P <br> R | M A Y | J U N | J | A | S |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 |  |  |  |  | P-1 Line Item Number / Title: <br> 2356 / Standard Missiles Mods |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Standard Missiles Mods |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Raytheon CO - Tucson AZ | 20 | 20 | 120 | 3 | 3 | 24 | 27 | 3 | 3 | 24 | 27 |
| 2 | BAE - MINNEAPOLIS, MN | 20 | 20 | 120 | 3 | 8 | 14 | 22 | 3 | 8 | 14 | 22 |
| 3 | Raytheon CO - Tucson AZ | 7 | 50 | 75 | 3 | 3 | 36 | 39 | 3 | 3 | 30 | 33 |

"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).

## Footnotes:

${ }^{(10)}$ Reflects contractual delivery dates P000015

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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## P-1 Line Item Number / Title:

2420 / Weapons Industrial Facilities

Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 4: Support Equipment \& Facilities

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Code | B Items: N/A |  |  | ther Relate | Program El | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 363.651 | 13.996 | 11.819 | 1.976 | 0.000 | 1.976 | 2.033 | 2.090 | 2.158 | 2.163 | - | 399.886 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 363.651 | 13.996 | 11.819 | 1.976 | 0.000 | 1.976 | 2.033 | 2.090 | 2.158 | 2.163 | - | 399.886 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 363.651 | 13.996 | 11.819 | 1.976 | 0.000 | 1.976 | 2.033 | 2.090 | 2.158 | 2.163 | - | 399.886 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:




 AIM-9M Sidewinder Missile, FMU-143 Penetrating Bomb Fuze System, Hellfire Missile, Guided Multiple-Launch Rocket System (GMLRS), Tomahawk GG and Trident GG.

 fire and security systems, roofs, boilers, electrical distribution systems, bridge crane systems, and other structural repairs essential to maintain the industrial integrity of the plant.

| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 4: Support Equipment \& Facilities |  |  |  |  |  | P-1 Line Item Number / Title: <br> 2420 / Weapons Industrial Facilities |  |  |  |  |
| 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 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I(\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1/Weapons Industrial Facilities |  |  |  | - / 363.651 | - /13.996 | - / 11.819 | - $/ 1.976$ | - 10.000 | - 11.976 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1363.651 | - /13.996 | - /11.819 | - 11.976 | - 10.000 | - 11.976 |

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

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

## Justification:

 of rocket motors and warheads.
 productivity. Funding for FY23 replaces one unit of industrial equipment associated with energetics production and manufacturing for various product lines.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 4: Support

 Equipment \& Facilities
## P-1 Line Item Number / Title:

2433 / Fleet Satellite Comm Follow-On

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303109N, 1203109N |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: 345

| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 2,263.640 | 52.401 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 2,316.041 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 2,263.640 | 52.401 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 2,316.041 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 2,263.640 | 52.401 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 2,316.041 |
| (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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

 communications (SATCOM).
 beyond its design life. MUOS consists of Space, Ground, and User Entry Segments.
 Multiple Access (WCDMA) payload, which provides 3G cellular-like capability.
 the 6 MUOS ground sites within each given year. The MUOS Ground Segment upgrades address cybersecurity and lifecycle management issues at each of the 6 MUOS ground sites.


 (SF). All four RAFs and two Satellite Control Facilities are considered Ground Sites.
 capability transitioned to Early Combatant Command Use in July 2016.

 certification testing.

| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy | Date: April 2022 |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $2433 ~ / ~ F l e e t ~ S a t e l l i t e ~ C o m m ~ F o l l o w-O n ~$ |
| 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 4: Support |  |
| Equipment \& Facilities |  |

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0303109N, 1203109N

## Line Item MDAP/MAIS Code: 345


 MUOS Full Operational Capability October 2019.
 operational deficiency issues.

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*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:
Starting in FY22 funding for the MUOS program has been transferred to the United States Space Force.

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Exhibit P-5, Cost Analysis: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 4

## P-1 Line Item Number / Title: 2433 / Fleet Satellite Comm Follow-On

## Date: April 2022

## Item Number / Title [DODIC]:

1 / Fleet Satellite Comm Follow-On

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

| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2021 |  | FY 2022 |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  | 2,140.281 |  |  | 0.000 | 0.000 |  | 0.000 |  |  | 0.000 |  |  | 0.000 |  |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - | - |  | - |  |  | - |  |  | - |  |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  | 2,140.281 |  |  | 0.000 | 0.000 |  | 0.000 |  |  | 0.000 |  |  | 0.000 |  |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - | - |  | - |  |  | - |  |  | - |  |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  | 2,140.281 |  |  | 0.000 | 0.000 |  | 0.000 |  |  | 0.000 |  |  | 0.000 |  |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  | - |  | - |  | - |  | - |  |  | - |  |  | - |  |
| Gross/Weapon System Unit Cost (\$ in Thousands) |  |  |  |  |  | - |  | - |  | - |  | - |  |  | - |  |  | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $\qquad$ | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ |  | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $\qquad$ |
| Flyaway Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) Ground System Updates | - | - | 204.092 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | 0.000 | - | - | 0.000 |
| Subtotal: Recurring Cost | - | - | 204.092 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | 0.000 | - | - | 0.000 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2.1) Advance Procurement Prior Years (FY2001-2010) | - | - | 118.858 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | 0.000 | - | - | 0.000 |
| 1.2.2) Satellite Procurement (MUOS) | 300,796.667 | 3 | 902.390 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | 0.000 | - | - | 0.000 |
| Subtotal: Non Recurring Cost | - | - | 1,021.248 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | 0.000 | - | - | 0.000 |
| Subtotal: Flyaway Cost | - | - | 1,225.340 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | 0.000 | - | - | 0.000 |
| Hardware Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.1) EELV Launch Vehicles (MUOS) | 147,092.800 | 5 | 735.464 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | 0.000 | - | - | 0.000 |
| Subtotal: Non Recurring Cost | - | - | 735.464 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | 0.000 | - | - | 0.000 |
| Subtotal: Hardware Cost | - | - | 735.464 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | 0.000 | - | - | 0.000 |
| Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) EELV Launch Vehicle Production | - | - | 37.345 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | 0.000 | - | - | 0.000 |
| 3.2) Satellite Production | - | - | 142.132 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | 0.000 | - | - | 0.000 |

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 4 |  |  |  |  |  | P-1 Line Item Number / Title: 2433 / Fleet Satellite Comm Follow-On |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Fleet Satellite Comm Follow-On |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Subtotal: Support Cost | - | - | 179.477 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Gross/Weapon System Cost | - |  | 2,140.281 | - |  | 0.000 | - |  | 0.000 |  |  | 0.000 |  | - | 0.000 |  | . | 0.000 |

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## Description:

Ground Upgrade Modification kits to correct functional and CYBER defects and address HW/SW obsolescence.
[MUOS Upgrade Mod Kits] Funding is for 2 Upgrade Mod Kit deployments for the 6 Ground sites in each fiscal year. Production upgrades of MUOS Mod Kits include defect resolution as well as addressing HW/SW obsolescence issues. Obsolete items being replaced in each fiscal year include DSN Gateway, High Assurance Internet Protocol Encryptors (HAIPE), back up tape drives/storage arrays, and Electromagnetic Interference (EMI) mitigation equipment.
[Tech Refresh] Funding is for engineering analysis of obsolete hardware and software required to determine the necessary upgrade options for HW/SW. Integration and testing of the upgrade options are being done to address system deficiencies.

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| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 4 |  |  | P-1 Line Item Number / Title: 2433 / Fleet Satellite Comm Follow-On |  |  |  |  |  | Modification Number / Title: 1 / MUOS Upgrade |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |
| Models of Systems Affected: [No Model Specified] |  | Modification Type: TBD |  |  | Related RDT\&E PEs: |  |  |  |  |  |  |  |
|  | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2023 \\ \text { OcO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: MUOS Upgrade |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) MUOS Technical Insertion Upgrades NonOrganic | $36 / 38.763$ | 18/14.658 | - 1- | 1. | 1 | 1. | 1 - | 1 | - 1 - | - 1 - | - 1 - | 54/53.421 |
| 1.1.2) MUOS Upgrade Mod Kits - NonOrganic ${ }^{(1)}$ | $24 / 64.413$ | 12/30.112 | -1- | 1 | - 1- | 1 | - 1- | - 1 | - 1 | - 1 | - 1- | $36 / 94.525$ |
| Subtotal: Recurring | - /103.176 | - 144.770 | - 1 - | - 1 - | 1 | - / - | 1 | - 1 | - 1 | - 1 | - 10.000 | - 1147.946 |
| Subtotal: MUOS Upgrade | 60/103.176 | 30/44.770 | $1-$ | - / - | - / - | - / - | 1 - | - 1- | - 1- | - 1 | - 1 - | 90/147.946 |
| Subtotal: Procurement, All Modification Items | - /103.176 | - /44.770 | - $1 \cdot$ | - / - | - 1 - | - / - | 1. | - / - | - / - | - 1. | - 10.000 | - /147.946 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1) Tech Refresh | - /13.755 | - 15.201 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - $1-$ | - /18.956 |
| Subtotal: Support | - /13.755 | - 15.201 | - 1 - | - 1 - | 1. | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 10.000 | - /18.956 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: MUOS Upgrade | - 16.428 | - 12.430 | 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 18.858 |
| Subtotal: Installation | - 16.428 | - 12.430 | 1 - | - 1 - | 1. | 1 - | - 1- | - 1- | - 1- | 1. | - 10.000 | - 18.858 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 123.359 | 52.401 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 175.760 |

## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 02 / 4
## ID Code (A=Service Ready, B=Not Service Ready) :

## Modification Item 1 of 1: MUOS Upgrade



## Footnotes:


 configuration of hardware and software requirements needed to address cybersecurity and lifecycle management issues at each of the 6 ground sites.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment /
BSA 1: Torpedoes and Related Equip

## P-1 Line Item Number / Title:

3113 / Surface Ship Torpedo Def (SSTD)

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: N/ |  |  | Other Related | Program E | ments: 06035 | 06N, 020422 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | FY 2023 Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 51.919 | 5.811 | 4.545 | 3.789 | 0.000 | 3.789 | 4.694 | 4.640 | 5.418 | 5.515 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 51.919 | 5.811 | 4.545 | 3.789 | 0.000 | 3.789 | 4.694 | 4.640 | 5.418 | 5.515 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 51.919 | 5.811 | 4.545 | 3.789 | 0.000 | 3.789 | 4.694 | 4.640 | 5.418 | 5.515 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The FY 2023 funding request was reduced by $\$ 0.502$ million to account for the availability of prior year execution balances.
The Surface Ship Torpedo Defense (SSTD) family of systems includes Acoustic Device Countermeasures (ADCs), Countermeasure Anti-Torpedo (CAT), Torpedo Warning System (TWS) and the AN/ SLQ-25 NIXIE program. The ADC is a 3-inch expendable torpedo countermeasure (CM) that provides an over-the-side soft-kill defense against threat torpedoes. This program provides ongoing production of countermeasure devices needed to sustain fleet inventories, improvements to enhance the readiness and effectiveness of countermeasure devices on all U.S. surface ships. The ADCs onboard ships are adequately stored in Ready and Deep Stowage Lockers also as a requirement for procurement to be installed in DDG, CG, and CVN ships.

TD010 - ADC HARDWARE: Procures surface ship ADCs. Quantity requirements determined by NMRP and shelf life of older units (reaching end of life). These requirements vary by ship type, location and operational posture.

TD020 - ADC READY STOWAGE LOCKER: Procure and install ready service and deep storage lockers to hold ADCs on surface ships.
TD830 - PRODUCTION ENGINEERING - In House: Funding provides specification preparation and validation, government prepared production acceptance procedures, production planning, Integrated Logistics Support (ILS) planning, coordination of government furnished information (GFI) and government furnished equipment (GFE), contract deliverable monitoring and prime contractor monitoring of cost/schedule performance. Also provides in- service engineering agent (ISEA) and technical direction agent (TDA) support for ADCs on surface ships.

TD900 - CONSULTING SERVICES: Funding under this cost code provides fair share of contractor support to the program office, including program, financial, acquisition, contract, administration and engineering management support.

TD905-PRODUCTION ENGINEERING CONTRACTOR: Funding under this cost code provides for production engineering tasks performed by the hardware contractor.

| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / <br> BSA 1: Torpedoes and Related Equip |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3113 / Surface Ship Torpedo Def (SSTD) |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Rea | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: $0603506 \mathrm{~N}, 0204228 \mathrm{~N}$ |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \hline \end{array}$ | $\begin{aligned} & \text { MDAP/I } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Quantity / Total Cos (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1/ Surface Ship Torpedo Def (SSTD) | P-5a |  |  | - /51.919 | - $/ 5.811$ | - 14.545 | - 13.789 | - 10.000 | - 13.789 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 151.919 | - 15.811 | - 14.545 | - 13.789 | - 10.000 | - 13.789 |

${ }^{*}$ 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:
FY23 funding supports procurement of both surface ship Acoustic Device Countermeasures (ADCs) and Ready \& Deep Stowage Lockers.

## UNCLASSIFIED

| Exhibit P-5, Cost | Analysis: | PB 202 | Navy |  |  |  |  |  |  |  |  |  |  | Date: A | April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / 1507N / 03 / 1 | udget Ac | tivity / | udget | Sub Acti |  | $\begin{aligned} & \text { P-1 L } \\ & 3113 \end{aligned}$ | ine Item I Surface | Numbe Ship T | / Title: rpedo D | Def (SSTD) |  |  |  | $\begin{aligned} & \text { Item } \mathrm{N}, \\ & 1 / \text { Surf } \end{aligned}$ | Number / rface Ship | Title [DO <br> Torpedo | DIC]: <br> Def (SS |  |
| ID Code (A=Service Rea | B=Not Servic | Ready) |  |  |  |  |  |  |  | AP/MAIS | Code: |  |  |  |  |  |  |  |
|  | Resource | Summar |  |  |  | Prior Yea |  | FY 20 |  | FY | 2022 | FY 2 | 202 Bas |  | FY 2023 | OCO | FY 2023 | Total |
| Procurement Quantity (Un | s in Each) |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Gross/Weapon System C | st (\$ in Million |  |  |  |  |  | 51.919 |  | 5.811 |  | 4.545 |  |  | 3.789 |  | 0.000 |  | 3.789 |
| Less PY Advance Procur | ment (\$ in Mill |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Net Procurement (P-1) (S | Millions) |  |  |  |  |  | 51.919 |  | 5.811 |  | 4.545 |  |  | 3.789 |  | 0.000 |  | 3.789 |
| Plus CY Advance Procure | ment (\$ in Mill |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Author | y \$ in Millions) |  |  |  |  |  | 51.919 |  | 5.811 |  | 4.545 |  |  | 3.789 |  | 0.000 |  | 3.789 |
|  | he following R | source Su | mary rows | $s$ are for info | mational p | purposes only. | The corresp | ding bu | get requests | are docume | nted elsewhe |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Gross/Weapon System U | it Cost (\$ in D | Ilars) |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals | this Exhibit | -5 may no | exact or | r sum exactly | due to rou | ounding. |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | ior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | 2023 Base |  |  | 2023 O | Oco |  | Y 2023 To |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Hardware Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) $\mathrm{TDO10} \mathrm{ADC}^{(+)}$ <br> (1) | 7,267.17 | 5,300 | 38.516 | 7,553.79 | 316 | $6 \quad 2.387$ | 6,161.43 | 477 | 2.939 | 12,884.00 | 159 | 2.049 | - |  | - - | 12,884.00 | 159 | 2.049 |
| $\begin{aligned} & \text { 1.1.2) TD010 } \\ & \text { SYSTEMS ENG }{ }^{(2)} \end{aligned}$ | - | - | - | - | - | - | - | - | - | - | - | 0.174 | - |  | - - | - | - | 0.174 |
| 1.1.3) TD020 Ready Stowage Locker ${ }^{(+)}$ | 131,551.72 | 29 | 3.815 | 137,821.88 |  | $7 \quad 0.965$ | 140,578.32 | 10 | 1.406 | 143,389.88 | 10 | 1.434 | - |  | - - | 143,389.88 | 10 | 1.434 |
| Subtotal: Recurring Cost | - | - | 42.331 | - | - | 3.352 | - | - | 4.345 | - | - | 3.657 | - |  | - - | - | - | 3.657 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2.1) TD010 ADC Non Recurring Costs (3) | - | - | 1.800 | - | - | 1.672 | - | - | - | - | - | - | - |  | - - | - | - | - |
| 1.2.2) TD020 Ready Stow Lockers | - | - | 1.200 | - | - | - | - | - | - | - | - | - | - |  | - - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 3.000 | - | - | 1.672 | - | - | - | - | - | - | - |  | - - | - | - | - |
| Subtotal: Hardware Cost | - | - | 45.331 | - | - | 5.024 | - | - | 4.345 | - | - | 3.657 | - |  | - - | - | - | 3.657 |
| Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1) TD830 PRODUCTION ENGINEERING INHOUSE | - | - | 4.448 | - | - | 0.098 | - | - | 0.061 | - | - | 0.056 | - |  | - - | - | - | 0.056 |

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3113 / Surface Ship Torpedo Def (SSTD) |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Surface Ship Torpedo Def (SSTD) |  |  |  |  |
| ID Code ( $A=$ Service Ready, $\mathrm{B}=$ Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (s) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (s) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total <br> Cost <br> (\$ M) |
| 2.2) TD905 PRODUCTION ENGCONTRACTOR | - | - | 0.621 | - | - | - | - | . | . | - | - | - | - | . | - | - | - | - |
| $\begin{aligned} & \text { 2.3) TD900 } \\ & \text { CONSULTING } \\ & \text { SERVICES } \end{aligned}$ | - | - | 1.519 | - | - | 0.689 | - | - | 0.139 | - | - | 0.076 | - | - | - | - | - | 0.076 |
| Subtotal: Support Cost | - | - | 6.588 | - | - | 0.787 | - | - | 0.200 | - | - | 0.132 | - | - | - | - | - | 0.132 |
| Gross/Weapon System <br> Cost | . |  | 51.919 | - |  | 5.811 | - |  | 4.545 | - | - | 3.789 | . | - | 0.000 | - | . | 3.789 |

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

## Footnotes:

${ }^{(1)}$ Increase in unit price FY22 to FY23 is due to actual contractor pricing for the new contract. Also funding reduction drove reduction of quantity. Funding reduction due to higher Department priorities.
${ }^{(2)}$ TD010 Systems Engineering covers the contract service fees, engineering, and logistic efforts-including ECP labor and materials cost for ADC MK2 Mod 7 devices.
${ }^{(3)}$ In FY 2021, the follow- on contract was not awarded due to negotiation issues. This effort will be awarded in FY22 and startup for NRE labor and materials are funded. Funds were already taken in FY23 because of this delay.

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  | P-1 Line Item Number / Title: <br> 3113 / Surface Ship Torpedo Def (SSTD) |  |  |  | Item Number / Title [DODIC]: <br> 1 / Surface Ship Torpedo Def (SSTD) |  |  |  |  |
| Cost Elements | \|l| | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost <br> (8) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) TD010 ADC |  | 2020 | ULTRA / Braintree, MA | C/FFP | NUWC Keyport WA | May 2020 | May 2021 | 598 | 6,622.07 | Y |  |  |
| 1.1.1) TD010 ADC |  | 2021 | ULTRA / Braintree, MA | C/FFP | NUWC Keyport WA | May 2021 | May 2022 | 316 | 7,553.79 | Y |  |  |
| 1.1.1) TD010 ADC |  | 2022 | TBD/TBD | C/IDIQ | NUWC Keyport WA | May 2022 | May 2023 | 477 | 6,161.43 | Y |  |  |
| 1.1.1) TD010 ADC |  | 2023 | TBD / TBD | C/IDIQ | NUWC Keyport WA | May 2023 | May 2024 | 159 | 12,884.00 | Y |  |  |
| 1.1.3) TD020 Ready Stowage Locker |  | 2019 | Delphinus / Norfolk, VA | C/ CPIF | NSWC Philadelphia | May 2019 | May 2020 | 14 | 132,428.57 | Y |  |  |
| 1.1.3) TD020 Ready Stowage Locker |  | 2020 | Delphinus / Norfolk, VA | C/ CPIF | NSWC Philadelphia | May 2020 | May 2021 | 9 | 131,222.20 | Y |  |  |
| 1.1.3) TD020 Ready Stowage Locker |  | 2021 | QED Systems, Inc / Virginia Beach, VA | C / CPFF | NSWC Philadelphia | May 2021 | May 2022 | 7 | 137,821.88 | Y |  |  |
| 1.1.3) TD020 Ready Stowage Locker |  | 2022 | QED Systems, Inc / Virginia Beach, VA | C/ CPFF | NSWC Philadelphia | May 2022 | Oct 2022 | 10 | 140,578.32 | Y |  |  |
| 1.1.3) TD020 Ready Stowage Locker |  | 2023 | Delphinus / Norfolk, VA | C/TBD | NSWC Philadelphia | May 2023 | Oct 2023 | 10 | 143,389.88 | Y |  |  |

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| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / |
| BSA 1: Torpedoes and Related Equip |

## P-1 Line Item Number / Title: <br> 3117 / MK-48 Torpedo

| 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

| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\text { FY } 2023$ Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 191 | 105 | 58 | 28 | - | 28 | 56 | 58 | 80 | 65 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 419.014 | 276.844 | 130.972 | 151.128 | 0.000 | 151.128 | 235.692 | 248.987 | 304.291 | 249.557 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |
| Net Procurement (P-1) (\$ in Millions) | 419.014 | 276.844 | 130.972 | 151.128 | 0.000 | 151.128 | 235.692 | 248.987 | 304.291 | 249.557 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 419.014 | 276.844 | 130.972 | 151.128 | 0.000 | 151.128 | 235.692 | 248.987 | 304.291 | 249.557 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | $\square$ | - | 1.378 | 2.901 | - | 2.901 | 2.726 | 2.585 | 2.647 | 2.307 | Continuing | Continuing |
| Flyaway Unit Cost (\$ in Dollars) | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | 2,194K | 2,637K | 2,258K | 5,397K | - | 5,397K | 4,209K | 4,293K | 3,804K | 3,839K | Continuing | Continuing |

## Description:

 ( 2 from FY16 option, 18 from FY17 option, and 37 from FY18 option) per the P-21 G\&C Section delivery schedule.


 Requirement Process (NMRP) requirements gap.
 Warhead Electronic Systems (WES) Sections, and Afterbody Tail Cone \& Fuel Tank Sections. Items in this Cost Code include:
 occurs during the contract performance.
 Manufacturing (POM) units (3) first article testing (4) tooling (5) test equipment (6) procurement of technical data package updates, and (7) start-up costs for production contractors.
 procurement delivery timelines.
 The contractors will be required to procure and deliver DMS material for these obsolete components.





## Appropriation / Budget Activity / Budget Sub Activity: $\quad$ P-1 Line Item Number / Title: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / BSA 1: Torpedoes and Related Equip



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

 meet requirements of the MK 48 Improvements CDD (857-97-12). Other Items in this Cost Code include:
 occurs during the contract performance.
 Manufacturing (POM) units (3) first article testing (4) tooling (5) test equipment (6) procurement of technical data package updates, and (7) start-up costs for production contractors.
 Torpedo. Installation costs match procurement delivery timelines.
 required to procure and deliver DMS material for these obsolete components.

 which were used by the MK 48 MOD 7 Torpedo Program from FY 2016 to FY 2020 to assemble an All-Up Round Torpedo.
 (NUWC) Keyport (KPT) and Newport (NPT), and the contractor facility for assembly, testing and integration.



 and reduction processes to ensure deficiencies are effectively addressed. Funding is also provided for program office acquisition support.
 subcontractor data, review of documentation indicating conformity to product performance requirements, and review of objective quality evidence.


## Exhibit P-40, Budget Line Item Justification: PB 2023 Navy


*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 2023 funding request was adjusted by $\$ 21.0 \mathrm{M}$ to account for the availability of prior year execution balances
ITEM 1.1.1 and 1.1.2 Guidance \& Control (G\&C) section and Afterbody Body/Tail-Cone section: additional funding required for increase in QTY from 25 in FY22 to 28 in FY23
 G\&C Section (2 from FY16, 18 from FY17, and 37 from FY18 options).

ITEM 3.1.1 and 3.1.2 Warhead Electronics / Fuel Tanks: Decreased funding due to reduction in quantities from FY22 to FY23. Warhead electronics (new WES, Exploder, Sources and Sensors, and Cables) and Fuel Tanks are being procured to replace the Warshot Fuel Tanks and Warhead Sections taken from war reserve that were used by the MK 48 MOD 7 Torpedo Program from FY 2016 to FY 2020 to assemble an All-Up Round Torpedo.

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / MK-48 Torpedo |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: 3117 / MK-48 Torpedo |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 3.1.1) Warhead Electronics ${ }^{(\dagger)(4)}$ | - | - | - | - - | - | - | 709,444.44 | 9 | 6.385 | 725,125.00 | 8 | 5.801 | - | - | - | 725,125.00 | 8 | 5.801 |
| 3.1.2) Fuel Tank War Reserve ${ }^{(t)(5)}$ | - | - | - | 188,218.75 | 32 | 6.023 | 243,888.89 | 9 | 2.195 | 252,000.00 | 7 | 1.764 | - | - | - | 252,000.00 | 7 | 1.764 |
| Subtotal: Recurring Cost | - | - | - | - | - | 6.023 | - | - | 8.580 | - | - | 7.565 | - | - | - | - | - | 7.565 |
| Subtotal: Hardware - <br> G5004 - Torpedo Other Procurement Investment Cost | - | - | - | - | - | 6.023 | - | - | 8.580 | - | - | 7.565 | - | - | - | - | - | 7.565 |
| Support - G5003 - Support and Ancillary Equipment Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1) Support and Ancillary Equipment | - | - | 7.012 | - | - | 1.633 | - | - | 1.850 | - | - | 1.881 | - | - | - | - | - | 1.881 |
| Subtotal: Support - G5003 <br> - Support and Ancillary <br> Equipment Cost | - | - | 7.012 | - | - | 1.633 | - | - | 1.850 | - | - | 1.881 | - | - | - | - | - | 1.881 |
| Support - G5830-Production Engineering Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.1) Production <br> Engineering (In-House \& Ctr) | - | - | 28.228 | - | - | 7.218 | - | - | 7.280 | - | - | 7.324 | - | - | - | - | - | 7.324 |
| Subtotal: Support - G5830Production Engineering Cost | - | - | 28.228 | - | - | 7.218 | - | - | 7.280 | - | - | 7.324 | - | - | - | - | - | 7.324 |
| Support - G5840-Quality Assurance Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.1) Quality Assurance | - | - | 6.244 | - | - | 2.076 | - | - | 2.118 | - | - | 2.160 | - | - | - | - | - | 2.160 |
| Subtotal: Support - G5840Quality Assurance Cost | - | - | 6.244 | - | - | 2.076 | - | - | 2.118 | - | - | 2.160 | - | - | - | - | - | 2.160 |
| Support - G5860-Acceptance T\&E Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.1) Acceptance T\&E | - | - | 8.436 | - | - | 5.722 | - | - | 5.765 | - | - | 5.829 | - | - | - | - | - | 5.829 |
| Subtotal: Support - G5860 - <br> Acceptance T\&E Cost | - | - | 8.436 | - | - | 5.722 | - | - | 5.765 | - | - | 5.829 | - | - | - | - | - | 5.829 |
| Gross/Weapon System Cost | 2,194K | 191 | 419.014 | 2,637K | 105 | 276.844 | 2,258K | 58 | 130.972 | 5,397K | 28 | 151.128 | - | - | 0.000 | 5,397K | 28 | 151.128 |

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

## Footnotes:

${ }^{(1)}$ ITEM 1.1.1 and 1.1.2 Guidance \& Control (G\&C) section and Afterbody Body/Tail-Cone section: additional funding required for increase in QTY from 25 in FY22 to 28 in FY23.
${ }^{(2)}$ ITEM 1.1.1 and 1.1.2 Guidance \& Control (G\&C) section and Afterbody Body/Tail-Cone section: additional funding required for increase in QTY from 25 in FY22 to 28 in FY23.

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 | P-1 Line Item Number / Title 3117 / MK-48 Torpedo | Item Number / Title [DODIC]: 1 / MK-48 Torpedo |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) |  | MDAP/MAIS Code: |
| ${ }^{(3)}$ ITEM 1.1.4 Installation: Additional funding requested in FY23 to support 57 MK48 AUR installations that are scheduled to be installed from prior year procurements per the P-21 G\&C Section delivery schedule for G\&C Section (2 from FY16, 18 from FY17, and 37 from FY18 options). <br> ${ }^{(4)}$ ITEM 3.1.1 and 3.1.2 Warhead Electronics / Fuel Tanks: Decreased funding due to reduction in quantities from FY22 to FY23. Warhead electronics (new WES, Exploder, Sources and Sensors, and Cables) and Fuel Tanks are being procured to replace the Warshot Fuel Tanks and Warhead Sections taken from war reserve that were used by the MK 48 MOD 7 Torpedo Program from FY 2016 to FY 2020 to assemble an All-Up Round Torpedo. <br> ${ }^{(5)}$ ITEM 3.1.1 and 3.1.2 Warhead Electronics / Fuel Tanks: Decreased funding due to reduction in quantities from FY22 to FY23. Warhead electronics (new WES, Exploder, Sources and Sensors, and Cables) and Fuel Tanks are being procured to replace the Warshot Fuel Tanks and Warhead Sections taken from war reserve that were used by the MK 48 MOD 7 Torpedo Program from FY 2016 to FY 2020 to assemble an All-Up Round Torpedo. |  |  |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  | P-1 Line Item Number / Title: 3117 / MK-48 Torpedo |  |  |  | Item Number / Title [DODIC]: <br> 1 / MK-48 Torpedo |  |  |  |  |
| 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 | Qty (Each) | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) Guidance \& Control (G\&C) Section ${ }^{(+)}$ |  | 2016 | G\&C Section LMS FY16 ${ }^{(6)}$ / Marion, MA | C/FFP | NAVSEA | May 2016 | Apr 2022 | 8 | 1,418K | Y |  | May 2015 |
| 1.1.1) Guidance \& Control (G\&C) Section ${ }^{(\dagger)}$ |  | 2017 | G\&C Section LMS - FY17 <br> Option $1^{(7)} /$ Marion, MA | C/FFP | NAVSEA | Sep 2017 | Nov 2022 | 18 | 600,930.00 | Y |  |  |
| 1.1.1) Guidance \& Control (G\&C) Section ${ }^{(\dagger)}$ |  | 2018 | G\&C Section LMS - FY18 <br> Option $2{ }^{(8)}$ / Marion, MA | C/FFP | NAVSEA | Aug 2018 | Jul 2023 | 41 | 591,036.44 | Y |  |  |
| 1.1.1) Guidance \& Control (G\&C) Section ${ }^{(+)}$ |  | 2019 | G\&C Section LMS - FY19 Option 3 / Marion, MA | C/FFP | NAVSEA | Jun 2019 | Feb 2024 | 53 | 536,195.85 | Y |  |  |
| 1.1.1) Guidance \& Control (G\&C) Section ${ }^{(\dagger)}$ |  | 2020 | G\&C Section LMS - FY20 Option 4 / Marion, MA | C/FFP | NAVSEA | Sep 2020 | Dec 2024 | 71 | 533,436.62 | Y |  |  |
| 1.1.1) Guidance \& Control (G\&C) Section ${ }^{(\dagger)}$ |  | $2021{ }^{(9)}$ | G\&C Section LMS - FY21 Option 5 / Marion, MA | C/FFP | NAVSEA | Nov 2021 | Oct 2025 | 82 | 1,147K | Y |  |  |
| 1.1.1) Guidance \& Control (G\&C) Section ${ }^{(\dagger)}$ |  | 2022 | G\&C Section + WES + Exploder Arming Device - LMS - FY22 Base Year / Marion, MA | SS/FFP | NAVSEA | Sep 2022 | May 2026 | 25 | 2,408K | Y |  |  |
| 1.1.1) Guidance \& Control (G\&C) Section ${ }^{(+)}$ |  | 2023 | G\&C Section + WES + <br> Exploder Arming Device - LMS <br> - FY23 Option 1 / Marion, MA | SS/FFP | NAVSEA | Jun 2023 | Oct 2026 | 28 | 2,510K | Y |  |  |
| 1.1.2) Afterbody/Tail Cone ${ }^{(\dagger)}$ |  | 2016 | Afterbody/Tail Cone Section SAIC - FY16 / Mclean, VA | C/FFP | NAVSEA | Sep 2016 | Jun 2020 | 8 | 933,250.00 | Y |  | Jul 2015 |
| 1.1.2) Afterbody/Tail Cone ${ }^{(+)}$ |  | 2017 | Afterbody/Tail Cone Section SAIC - FY17 / Mclean, VA | C/FFP | NAVSEA | Sep 2017 | Jul 2020 | 18 | 856,853.00 | Y |  |  |
| 1.1.2) Afterbody/Tail Cone ${ }^{(\dagger)}$ |  | 2018 | Afterbody/Tail Cone Section SAIC - FY18 / Mclean, VA | C/FFP | NAVSEA | Jun 2018 | Feb 2021 | 41 | 803,054.22 | Y |  |  |
| 1.1.2) Afterbody/Tail Cone ${ }^{(\dagger)}$ |  | 2019 | Afterbody/Tail Cone Section SAIC - FY19 / Mclean, VA | C/FFP | NAVSEA | Sep 2019 | Sep 2021 | 53 | 830,309.64 | Y |  |  |
| 1.1.2) Afterbody/Tail Cone ${ }^{(+)}$ |  | 2020 | Afterbody/Tail Cone Section SAIC - FY20 / Mclean, VA | C/FFP | NAVSEA | Aug 2020 | Sep 2022 | 71 | 826,690.14 | Y |  |  |
| 1.1.2) Afterbody/Tail Cone ${ }^{(\dagger)}$ |  | $2021{ }^{(10)}$ | Afterbody/Tail Cone Section + Fuel Tank SAIC - FY21 Base / Reston, VA | C/FFP | NAVSEA | Nov 2021 | Aug 2024 | 82 | 1,021K | Y |  |  |
| 1.1.2) Afterbody/Tail Cone ${ }^{(\dagger)}$ |  | 2022 | Afterbody/Tail Cone Section + Fuel Tank SAIC - FY22 Option 1 / Reston, VA | C/FFP | NAVSEA | Aug 2022 | Oct 2024 | 25 | 1,341K | Y |  |  |
| 1.1.2) Afterbody/Tail Cone ${ }^{(\dagger)}$ |  | 2023 | Afterbody/Tail Cone Section + Fuel Tank SAIC - FY23 Option 2 / Reston, VA | C/FFP | NAVSEA | Jun 2023 | Aug 2025 | 28 | 1,385K | Y |  |  |
| 3.1.1) Warhead Electronics ${ }^{(\dagger)}$ |  | 2022 | WES + Exploder Arming Device <br> - LMS - FY22 Base / Marion, VA | SS/FFP | NAVSEA | Sep 2022 | May 2025 | 9 | 709,444.44 | N |  |  |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  | P-1 Line Item Number / Title: <br> 3117 / MK-48 Torpedo |  |  |  | Item Number / Title [DODIC]: <br> 1 / MK-48 Torpedo |  |  |  |  |
| Cost Elements | \|l| | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty <br> (Each) | Unit Cost (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 3.1.1) Warhead Electronics ${ }^{(\dagger)}$ |  | 2023 | WES + Exploder Arming Device LMS - FY23 Option 1 / Marion, VA | SS/FFP | NAVSEA | Jun 2023 | Jun 2026 | 8 | 725,125.00 | N |  |  |
| 3.1.2) Fuel Tank War Reserve ${ }^{(\dagger)}$ |  | 2021 | Fuel Tank - SAIC- FY21 Base / Reston, VA | C/FFP | NAVSEA | Nov 2021 | Jan 2025 | 32 | 188,218.75 | N |  |  |
| 3.1.2) Fuel Tank War Reserve ${ }^{(\dagger)}$ |  | 2022 | Fuel Tank - SAIC- FY22 Option 1 / Reston, VA | C/FFP | NAVSEA | Aug 2022 | Apr 2025 | 9 | 243,888.89 | N |  |  |
| 3.1.2) Fuel Tank War Reserve ${ }^{(\dagger)}$ |  | 2023 | Fuel Tank - SAIC- FY23 Option $2 /$ Reston, VA | C/FFP | NAVSEA | Jun 2023 | Oct 2025 | 7 | 252,000.00 | N |  |  |

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

## Footnotes:

${ }^{(6)}$ MSR and EOQ have not yet been determined by the contractor.
${ }^{(7)}$ MSR and EOQ have not yet been determined by the contractor.
${ }^{(8)}$ MSR and EOQ have not yet been determined by the contractor.

 AB/TC contract.

 AB/TC contract.

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / MK-48 Torpedo |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 3117 / MK-48 Torpedo |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \hline \text { B } \\ \text { A } \\ \text { L } \\ \text { A } \\ \text { C } \\ \hline \end{gathered}$ |
|  | FY | SERVICE | PROC QTY | $\square$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | $\begin{aligned} & \text { J } \\ & \text { U } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\underset{G}{A}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \\ & \hline \end{aligned}$ | M A Y | J u | J u L | $\begin{aligned} & A \\ & \text { A } \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{p} \end{aligned}$ |  |
| 1.1.1) Guidance \& Control (G\&C) Section ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2016 | Navy | 8 | 0 | 8 | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 2 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2017 | Navy | 18 | 0 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | 4 |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2018 | NAVY | 41 | 0 | 41 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | 15 | 14 | 4 |
| 4 | 2019 | NAVY | 53 | 0 | 53 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 53 |
| 5 | 2020 | NAVY | 71 | 0 | 71 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 71 |
| 6 | 2021 | NAVY | 82 | 0 | 82 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 82 |
| 7 | 2022 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | 25 |
| 8 | 2023 | NAVY | 28 | 0 | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | 28 |
| 1.1.2) Afterbody/Tail Cone ${ }^{(2)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 2016 | NavY | 8 | 8 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 10 | 2017 | NAVY | 18 | 18 | , |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2018 | NAVY | 41 | 41 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 12 | 2019 | NAVY | 53 | 6 | 47 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 13 | 2020 | NAVY | 71 | 0 | 71 | - | - | - | - | - | - | - | - | - | - | - | 7 | 7 | 7 | 7 |  | 7 | 7 |  | 7 | 8 |  |  |  | 0 |
| 14 | 2021 | NAVY | 82 | 0 | 82 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 82 |
| 15 | 2022 | NAVY | 25 | 0 | 25 |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 25 |
| 16 | 2023 | NAVY | 28 | 0 | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | 28 |
| 3.1.1) Warhead Electronics ${ }^{(4)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 2022 | NAVY | 9 | 0 | 9 |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | 9 |
| 18 | 2023 | NAVY | 8 | 0 | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | 8 |
| 3.1.2) Fuel Tank War Reserve ${ }^{(5)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | 2021 | NAVY | 32 | 0 | 32 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 32 |
| 20 | 2022 | NAVY | 9 | 0 | 9 |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 |
| 21 | 2023 | NAVY | 7 | 0 | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | 7 |
|  |  |  |  |  |  | O c T | N O v | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \end{aligned}$ | J A N | F E B | M A R | A P R | M $\begin{gathered}\text { M } \\ \text { Y }\end{gathered}$ | J u N | ${ }_{\text {J }}$ | A | $\begin{aligned} & \hline \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c c | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A Y | J U N | ${ }_{\text {J }}$ | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / MK-48 Torpedo |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 3117 / MK-48 Torpedo |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { B } \\ A \\ \text { L } \\ A \\ \text { N } \\ C \\ E \end{gathered}$ |
| $\begin{aligned} & 0 \\ & \mathrm{c} \\ & \mathrm{o} \end{aligned}$ | FY | SERVICE |  ACCEPT <br>  PRIOR <br> PROC TO <br> OCT  <br> QTY 2023 |  | $\begin{gathered} \mathrm{BAL} \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A <br> P <br> R | M | $\begin{aligned} & \mathrm{J} \\ & \mathbf{U} \\ & \mathrm{~N} \end{aligned}$ | $\underset{\text { u }}{\mathrm{J}}$ | $\begin{aligned} & A \\ & U \\ & G \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A P R | M A Y | J N | J u L | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 1.1.1) Guidance \& Control (G\&C) Section ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2016 | NAVY | 8 | 8 |  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2017 | NAVY | 18 | 18 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2018 | Navy | 41 | 37 | 4 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 4 | 2019 | NAVY | 53 | 0 | 53 | - | - | - | - | 6 | 6 |  | 5 | 5 | 5 | 5 | 5 | 5 | 5 |  |  |  |  |  |  |  |  |  |  | 0 |
| 5 | 2020 | NAVY | 71 | 0 | 71 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | 7 | 7 | 7 | 7 |  | 7 | 7 | 7 | 7 | 0 |
| 6 | 2021 | NAVY | 82 | 0 | 82 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 82 |
| 7 | 2022 | NAVY | 25 | 0 | 25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 25 |
| 8 | 2023 | Navy | 28 | 0 | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 28 |
| 1.1.2) Afterbody /Tail Cone ${ }^{(2)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 2016 | NAVY | 8 | 8 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 10 | 2017 | NAVY | 18 | 18 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2018 | NAVY | 41 | 41 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 12 | 2019 | NAVY | 53 | 53 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 13 | 2020 | NAVY | 71 | 71 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 14 | 2021 | NAVY | 82 | 0 | 82 | - | - | - | - | - | - | - | - | - | - | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 2 |  |  |  |  |  | 0 |
| 15 | 2022 | NAVY | 25 | 0 | 25 | - | . | - | - | - | - | - | - | - | - | . | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  | 2 | 2 | 2 | 2 | 0 |
| 16 | 2023 | NAVY | 28 | 0 | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 26 |
| 3.1.1) Warhead Electronics ${ }^{(4)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 2022 | NAVY | 9 | 0 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | 1 | 1 | 1 | 1 | 4 |
| 18 | 2023 | NAVY | 8 | 0 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 |
| 3.1.2) Fuel Tank War Reserve ${ }^{(5)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | 2021 | NAVY | 32 | 0 | 32 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | 17 | 5 |  |  |  |  |  |  | 0 |
| 20 | 2022 | NAVY | 9 | 0 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |  | 1 | 1 | 1 | 1 | 3 |
| 21 | 2023 | NAVY | 7 | 0 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 |
|  |  |  |  |  |  | 0 <br> 0 | N | D | J A N | $\underset{\mathrm{E}}{\mathrm{F}}$ | M | A <br> P | M | J | u | A U G | S E P | O c ¢ | N | D | A | F | M A R | A P R | M | J | J | A | S |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 3117 / MK-48 Torpedo |  |  |  |  |  |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 1 / MK-48 Torpedo |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2026 |  |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2027 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2026 |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2027 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2025 \end{array}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | - | N | D E c | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br>  <br> $\mathbf{P}$ <br> R | M A Y |  | J u N | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \mathbf{A} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \stackrel{c}{\mathrm{C}} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | F E B | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J u N | ${ }_{\text {J }}^{\text {u }}$ | A | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 1.1.1) Guidance \& Control (G\&C) Section ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2016 | NavY | 8 | 8 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2017 | NavY | 18 | 18 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2018 | NAVY | 41 | 41 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 4 | 2019 | NAVY | 53 | 53 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 5 | 2020 | NavY | 71 | 71 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 6 | 2021 | NAVY | 82 | 0 | 82 | 7 | 7 | 7 | 7 | 7 | 7 |  |  | 7 | 7 | 7 | 6 | 6 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7 | 2022 | NavY | 25 | 0 | 25 | - | - | - | - | - | - | - |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |  |  |  |  |  |  | 0 |
| 8 | 2023 | NAVY | 28 | 0 | 28 | - | - | - | - | - | - | - |  | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 |  |  | 4 | 4 | 0 |
| 1.1.2) Afterbody/Tail Cone ${ }^{(2)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 2016 | NavY | 8 | 8 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 10 | 2017 | NAVY | 18 | 18 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2018 | NAVY | 41 | 41 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 12 | 2019 | NAVY | 53 | 53 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 13 | 2020 | NavY | 71 | 71 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 14 | 2021 | NavY | 82 | 82 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 15 | 2022 | NavY | 25 | 25 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 16 | 2023 | NAVY | 28 | 2 | 26 | 2 | 2 | 2 | 2 | 3 | 3 |  |  | 3 | 3 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3.1.1) Warhead Electronics ${ }^{(4)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 2022 | NAVY | 9 | 5 | 4 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 18 | 2023 | NAVY | 8 | 0 | 8 | - | - | - | $-$ | - | - | - |  | - | 1 | 1 | 1 | 1 | 1 |  | 1 | 1 |  |  |  |  |  |  |  |  | 0 |
| 3.1.2) Fuel Tank War Reserve ${ }^{(5)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | 2021 | NAVY | 32 | 32 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 20 | 2022 | NAVY | 9 | 6 | 3 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 21 | 2023 | NavY | 7 | 0 | 7 | 1 | 1 | 1 | 1 | 1 | , |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & M \\ & A \end{aligned}$ | A <br>  <br> P <br> R | M A Y |  | J | J | A | $\mathrm{S}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \end{aligned}$ | M A R | A P R | M A Y | J U N | ${ }_{\text {J }}$ | A | S E P |  |

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Exhibit P-21, Production Schedule: PB 2023 Navy
 1507N / 03 / 1

|  |  | Production Rates (Each / Year) |
| :--- | :--- | :--- |

P-1 Line Item Number / Title: 3117 / MK-48 Torpedo

Date: April 2022

## Item Number / Title [DODIC]:

1 / MK-48 Torpedo

| MFR Ref \# | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | MSR For 2023 | 1-8-5 For 2023 | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | 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 | G\&C Section LMS - FY16 ${ }^{(6)}$ <br> - Marion, MA |  |  | 50 | 0 | 0 | 71 | 71 | 0 | 0 | 0 | 0 |
| 2 | G\&C Section LMS - FY17 Option $1^{(7)}$ - Marion, MA |  |  | 100 | 0 | 0 | 62 | 62 | 0 | 0 | 0 | 0 |
| 3 | G\&C Section LMS - FY18 Option $2^{(8)}$ - Marion, MA |  |  | 100 | 0 | 0 | 59 | 59 | 0 | 0 | 0 | 0 |
| 4 | G\&C Section LMS - FY19 Option 3 - Marion, MA | 41 | 69 | 100 | 0 | 0 | 56 | 56 | 0 | 0 | 48 | 48 |
| 5 | G\&C Section LMS - FY20 Option 4 - Marion, MA | 41 | 69 | 100 | 0 | 0 | 51 | 51 | 0 | 0 | 0 | 0 |
| 6 | G\&C Section LMS - FY21 Option 5 - Marion, MA |  |  | TBD | 0 | 0 | 47 | 47 | 0 | 0 | 0 | 0 |
| 7 | G\&C Section + WES + Exploder Arming Device LMS - FY22 Base Year Marion, MA |  |  | TBD | 0 | 0 | 44 | 44 | 0 | 0 | 0 | 0 |
| 8 | G\&C Section + WES + Exploder Arming Device - LMS - FY23 Option 1 Marion, MA |  |  | TBD | 0 | 0 | 39 | 39 | 0 | 0 | 0 | 0 |
| 9 | Afterbody/Tail Cone Section SAIC - FY16 - Mclean, VA |  |  | TBD | 0 | 0 | 45 | 45 | 0 | 0 | 0 | 0 |
| 10 | Afterbody/Tail Cone Section SAIC - FY17 - Mclean, VA |  |  | TBD | 0 | 0 | 34 | 34 | 0 | 0 | 0 | 0 |
| 11 | Afterbody/Tail Cone Section SAIC - FY18 - Mclean, VA |  |  | TBD | 0 | 0 | 32 | 32 | 0 | 0 | 32 | 32 |
| 12 | Afterbody/Tail Cone Section SAIC - FY19 - Mclean, VA |  |  | 100 | 0 | 0 | 24 | 24 | 0 | 0 | 0 | 0 |
| 13 | Afterbody/Tail Cone Section SAIC - FY20 - Mclean, VA |  |  | 100 | 0 | 0 | 25 | 25 | 0 | 0 | 0 | 0 |
| 14 | Afterbody/Tail Cone Section + Fuel Tank SAIC - FY21 Base - Reston, VA |  |  | TBD | 0 | 0 | 33 | 33 | 0 | 0 | 0 | 0 |
| 15 | Afterbody/Tail Cone Section + Fuel Tank SAIC - FY22 Option 1 - Reston, VA |  |  | TBD | 0 | 0 | 26 | 26 | 0 | 0 | 0 | 0 |
| 16 | Afterbody/Tail Cone Section + Fuel Tank SAIC - FY23 Option 2 - Reston, VA |  |  | TBD | 0 | 0 | 26 | 26 | 0 | 0 | 0 | 0 |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  |  | P-1 Line Item Number / Title: <br> 3117 / MK-48 Torpedo |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / MK-48 Torpedo |  |  |
| MFR Ref \# | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | ALT <br> Prior to Oct 1 | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT <br> Prior to Oct 1 | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 17 | WES + Exploder Arming Device - LMS - FY22 Base Marion, VA |  |  | TBD | 0 | 0 | 32 | 32 | 0 | 0 | 26 | 26 |
| 18 | WES + Exploder Arming Device - LMS - FY23 Option 1 - Marion, VA |  |  | TBD | 0 | 0 | 36 | 36 | 0 | 0 | 0 | 0 |
| 19 | Fuel Tank - SAIC- FY21 Base - Reston, VA |  |  | TBD | 0 | 0 | 38 | 38 | 0 | 0 | 0 | 0 |
| 20 | Fuel Tank - SAIC- FY22 Option 1 - Reston, VA |  |  | TBD | 0 | 0 | 32 | 32 | 0 | 0 | 0 | 0 |
| 21 | Fuel Tank - SAIC- FY23 Option 2 - Reston, VA |  |  | TBD | 0 | 0 | 28 | 28 | 0 | 0 | 0 | 0 |

" 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:

${ }^{(6)}$ MSR and EOQ have not yet been determined by the contractor.
${ }^{(7)}$ MSR and EOQ have not yet been determined by the contractor.
${ }^{(8)}$ MSR and EOQ have not yet been determined by the contractor.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / |
| BSA 1: Torpedoes and Related Equip |

## P-1 Line Item Number / Title: <br> 3141 / ASW Targets

| 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 2021 | FY 2022 | $\text { FY } 2023$ Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 242.588 | 13.833 | 13.630 | 14.403 | 0.000 | 14.403 | 14.673 | 14.985 | 17.185 | 17.352 | - | 348.649 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 242.588 | 13.833 | 13.630 | 14.403 | 0.000 | 14.403 | 14.673 | 14.985 | 17.185 | 17.352 | - | 348.649 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 242.588 | 13.833 | 13.630 | 14.403 | 0.000 | 14.403 | 14.673 | 14.985 | 17.185 | 17.352 | - | 348.649 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:


 requirements

 pre-programmable run maneuvers emulating threat submarines and is detectable by all current U.S. ASW Platforms.

The MK-30 Service Life Extension Program (SLEP) extends the useful service life of MK-30 ASW Targets to meet annual fleet training requirements.



 can no longer be maintained or that needs updates for cyber vulnerabilities.
 management support, systems engineering, and production engineering.
[P5 / TG842 - MK39 MOD 2/3 EMATT QUALITY ASSURANCE]: Funding under this cost code provides for quality assurance efforts in support of the EMATT program.

| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy | Date: April 2022 |
| :--- | :--- | :--- |

## Appropriation / Budget Activity / Budget Sub Activity: $\quad$ P-1 Line Item Number / Title: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / 3141 / ASW Targets

BSA 1: Torpedoes and Related Equip
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A
[P5 / TG862 - MK39MOD 2/3 EMATT ACCEPTANCE T\&E]: Funding under this cost code provides for production acceptance of contractor hardware for the EMATT program.
[P5 / TG900 - MK39 MOD 2/3 EMATT CONSULTING SERVICES]: Funding under this cost code provides for contractor support services at the program office.

## Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / <br> 3141 / ASW Targets |
| :--- | :--- |
| BSA 1: Torpedoes and Related Equip |  |


*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:


 requirements

Hardware - TG002 - MK39 MOD 3 EMATT Cost
Recurring
 to a lower unit price in FY23 from FY22 due to step ladder pricing and Non-Recurring Cost for procurement of Pre-POM units and POM units are in FY22 only for a new contract award.

 MK39 Mod 3 EMATT production contract


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: 3141 / ASW Targets |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / ASW TARGETS |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Subtotal: Hardware - <br> TG005-MK30 MOD 2 PROCUREMENT Cost | - | - | 53.509 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hardware - TG007-MK30 SLEP Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1.1) MK30 SLEP | - | - | 39.979 | - | - | 4.803 | - | - | 4.428 | - | - | 4.465 | - | - | - | - | - | 4.465 |
| Subtotal: Recurring Cost | - | - | 39.979 | - | - | 4.803 | - | - | 4.428 | - | - | 4.465 | - | - | - | - | - | 4.465 |
| Subtotal: Hardware - TG007 <br> - MK30 SLEP Cost | - | - | 39.979 | - | - | 4.803 | - | - | 4.428 | - | - | 4.465 | - | - | - | - | - | 4.465 |
| Support - TG015 - MK30 SUPPORT \& TEST EQUIPMENT Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1) MK30 SUPPORT \& TEST EQUIPMENT | - | - | 1.122 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - TG015 <br> - MK30 SUPPORT \& TEST <br> EQUIPMENT Cost | - | - | 1.122 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - TG832-MK39 MOD 2/3 EMATT PROD ENG (IN-HOUSE) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.1) MK39 MOD $2 / 3$ EMATT PROD ENG (INHOUSE) | - | - | 18.778 | - | - | 0.720 | - | - | 0.735 | - | - | 0.750 | - | - | - | - | - | 0.750 |
| Subtotal: Support - TG832 <br> - MK39 MOD 2/3 EMATT <br> PROD ENG (IN-HOUSE) Cost | - | - | 18.778 | - | - | 0.720 | - | - | 0.735 | - | - | 0.750 | - | - | - | - | - | 0.750 |
| Support - TG835-MK30 MOD 2 PROD ENG (IN-HOUSE) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.1) MK30 MOD 2 PROD ENG (IN-HOUSE) | - | - | 13.118 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - TG835 <br> - MK30 MOD 2 PROD ENG <br> (IN-HOUSE) Cost | - | - | 13.118 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - TG842 - MK39 MOD 2/3 EMATT QUALITY ASSURANCE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.1) MK39 MOD $2 / 3$ EMATT QUALITY ASSURANCE | - | - | 2.154 | - | - | 0.146 | - | - | 0.149 | - | - | 0.152 | - | - | - | - | - | 0.152 |
| Subtotal: Support - TG842 <br> - MK39 MOD 2/3 EMATT QUALITY ASSURANCE Cost | - | - | 2.154 | - | - | 0.146 | - | - | 0.149 | - | - | 0.152 | - | - | - | - | - | 0.152 |
| Support - TG862-MK39MOD 2/3 EMATT ACCEPTANCE T\&E Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8.1) MK39 MOD $2 / 3$ EMATT ACCEPTANCE T\&E | - | - | 3.280 | - | - | 0.197 | - | - | 0.201 | - | - | 0.205 | - | - | - | - | - | 0.205 |

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 I ASW TARGETS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: 3141 / ASW Targets |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & (\text { Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$) | Qty | Total Cost (\$ M) |
| Subtotal: Support - TG862 - MK39MOD 2/3 EMATT ACCEPTANCE T\&E Cost | - | - | 3.280 | - | - | 0.197 | - | - | 0.201 | - | - | 0.205 | - | - | - | - | - | 0.205 |
| Support - TG865-MK30 MOD 2 ACCEPTANCE TESTING Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.1) MK30 MOD 2 ACCEPTANCE TESTING | - | - | 2.084 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - <br> TG865-MK30 MOD 2 <br> ACCEPTANCE TESTING <br> Cost | - | - | 2.084 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - TG900 - MK39 MOD 2/3 EMATT CONSULTING SERVICES Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10.1) MK39 MOD $2 / 3$ EMATT CONSULTING SERVICES | - | - | 4.920 | - | - | 0.167 | - | - | 0.170 | - | - | 0.173 | - | - | - | - | - | 0.173 |
| Subtotal: Support - TG900 - MK39 MOD 2/3 EMATT consulting services Cost | - | - | 4.920 | - | - | 0.167 | - | - | 0.170 | - | - | 0.173 | - | - | - | - | - | 0.173 |
| Gross/Weapon System Cost | - | - | 242.588 | - | - | 13.833 | - | - | 13.630 | - | - | 14.403 | - | - | 0.000 | - | - | 14.403 |

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

## Footnotes:

 due to step ladder pricing.



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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  | P-1 Line Item Number / Title: 3141 I ASW Targets |  |  |  | Item Number / Title [DODIC]: <br> 1 / ASW TARGETS |  |  |  |  |
| Cost Elements | O C O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) MK39 MOD 3 EMATTs ${ }^{(\dagger)}$ |  | 2017 | LOCKHEED MARTIN/ <br> SIPPICAN FY17 / Marion, MA | C/FFP | NUWC NEWPORT | Nov 2016 | Feb 2018 | 715 | 6,999.00 | Y |  |  |
| 1.1.1) MK39 MOD 3 EMATTs ${ }^{(\dagger)}$ |  | 2018 | LOCKHEED MARTIN/ <br> SIPPICAN FY18 / Marion, MA | C/FFP | NUWC NEWPORT | Nov 2017 | Jan 2019 | 1,017 | 6,925.00 | Y |  |  |
| 1.1.1) MK39 MOD 3 EMATTs ${ }^{(\dagger)}$ |  | 2019 | LOCKHEED MARTIN/ SIPPICAN FY19/20 / Marion, MA | C/FFP | NUWC NEWPORT | Jan 2019 | Nov 2020 | 1,019 | 7,097.00 | Y |  |  |
| 1.1.1) MK39 MOD 3 EMATTs ${ }^{(\dagger)}$ |  | 2020 | LOCKHEED MARTIN/ SIPPICAN FY19/20 / Marion, MA | C/FFP | NUWC NEWPORT | Dec 2019 | Feb 2022 | 964 | 7,273.86 | Y |  |  |
| 1.1.1) MK39 MOD 3 EMATTs ${ }^{(\dagger)}$ |  | 2021 | LOCKHEED MARTIN/ SIPPICAN FY20/21 / Marion, MA | C/FFP | NUWC NEWPORT | Dec 2020 | Jan 2023 | 965 | 7,455.00 | Y |  |  |
| 1.1.1) MK39 MOD 3 EMATTs ${ }^{(\dagger)}$ |  | 2022 | LOCKHEED MARTIN/SIPPICAN FY22/23/MARION, MA | C/FFP | NUWC NEWPORT | May 2022 | Nov 2023 | 550 | 8,474.00 | Y |  |  |
| 1.1.1) MK39 MOD 3 EMATTs ${ }^{(\dagger)}$ |  | 2023 | LOCKHEED MARTIN/SIPPICAN FY22/23 / MARION, MA | C/FFP | NUWC NEWPORT | May 2023 | Jul 2024 | 1,023 | 7,832.00 | Y |  |  |

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

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| Exhibit P-21, Production Schedule: PB 2023 Navy ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 1 |  |  |  |  | P-1 Line Item Number / Title: <br> 3141 / ASW Targets |  |  |  |  | Item Number / Title [DODIC]: <br> 1 I ASW TARGETS |  |  |
| $\begin{array}{\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2023 1-8-5 For 2023 |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | LOCKHEED MARTIN/ SIPPICAN FY17 - Marion, MA | 300 | 1,000 |  | 1,800 | 0 | 0 | 21 | 21 | 0 | 0 | 15 | 15 |
| 2 | LOCKHEED MARTIN/ SIPPICAN FY18 - Marion, MA | 300 | 1,000 | 1,800 | 0 | 0 | 21 | 21 | 0 | 0 | 14 | 14 |
| 3 | LOCKHEED MARTIN/ SIPPICAN FY19/20 - Marion, MA | 300 | 1,000 | 1,800 | 0 | 0 | 25 | 25 | 0 | 0 | 22 | 22 |
| 4 | LOCKHEED MARTIN/ <br> SIPPICAN FY20/21 - Marion, MA | 300 | 1,000 | 1,800 | 0 | 0 | 25 | 25 | 0 | 0 | 18 | 18 |
| 5 | LOCKHEED MARTIN/ SIPPICAN FY22/23MARION, MA | 300 | 1,000 | 1,800 | 0 | 0 | 18 | 18 | 0 | 0 | 14 | 14 |

" 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: |
| :--- |
| 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / |
| BSA 2: Mod of Torpedoes and Related Equip |

## P-1 Line Item Number / Title: <br> 3215 / MK-54 Torpedo Mods

ID Code ( $A=$ Senice Ready, $B=$ Not Serice 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 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 651 | - | - | - | - | - | 20 | 12 | 6 | 6 | - | 695 |
| Gross/Weapon System Cost (\$ in Millions) | 1,373.552 | 103.441 | 94.168 | 106.772 | 0.000 | 106.772 | 162.338 | 145.541 | 136.013 | 137.681 | - | 2,259.506 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,373.552 | 103.441 | 94.168 | 106.772 | 0.000 | 106.772 | 162.338 | 145.541 | 136.013 | 137.681 | - | 2,259.506 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,373.552 | 103.441 | 94.168 | 106.772 | 0.000 | 106.772 | 162.338 | 145.541 | 136.013 | 137.681 | - | 2,259.506 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 1.404 | 1.288 | 1.494 | - | 1.494 | 1.506 | 1.538 | 1.574 | 1.597 | Continuing | Continuing |
| Flyaway Unit Cost (\$ in Dollars) | 0.00 | - | - | - | - | - | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | 2,110K | - | - | - | - | - | 8,117K | 12,128K | 22,669K | 22,947K | - | $3,251 \mathrm{~K}$ |

## Description:

 threat countermeasures



 provides the P-8A MPRA with the ability to release LWTs from high altitude to prosecute enemy submarine threats.

 contracts were competitively awarded. Other Items funded under this Cost Code include:

- Engineering Services / Engineering Change Proposals (ECPs)
 data package updates and startup costs for production contractors.
- Installation funding for government installation of the kits into All Up Rounds (AUR).


 and Processor Group Assembly (PGA). Other items in this Cost Code include:
 occurs during the
contract performance.


## Appropriation / Budget Activity / Budget Sub Activity: <br> P-1 Line Item Number / Title: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment /

 BSA 2: Mod of Torpedoes and Related Equip|  | ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
| :---: | :---: | :---: | :---: |

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

 and start-up costs for production contractors.

- Installation funding for government installation of the kits into All Up Rounds(AUR).
- Diminishing Manufacturing Sources (DMS) funding for the procurement of obsolete commercial material to avoid redesign and requalification of the electronics during the production cycle.

 and deeper diving. Other items funded under this cost code include:
 occurs during the
contract performance.
 exercises and developmental and operational testing


 equipment, procurement of technical data package updates, start-up costs, and other one-time costs in the first year of the production contract.
 and the contractor facility for assembly, testing, and integration.


 matter experts to support root cause analysis of failed contractor hardware and monitor contractor defect resolution and reduction processes to ensure deficiencies are effectively addressed.
 quality assurance reviews of the contractor and subcontractors, documentation indicating contractor conformity to product performance requirements, and review of objective quality evidence.
 hardware, including in-water testing of the torpedoes on department ranges.
[P5 / F5900 PRODUCTION ENGINEERING CONTRACTOR]: Funding under this cost code provides for contractor support to the program office.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment /
BSA 2: Mod of Torpedoes and Related Equip

## P-1 Line Item Number / Title: <br> 3215 / MK-54 Torpedo Mods


${ }^{*}$ 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:

FY23 program funding changes:
 102 kits budgeted in FY22.
 Common Parts Contract. Unit cost increase in FY23 due to lower MK54 Mod 1 Kit procurement quantities from 91 in FY22 to 82 in FY23 based on budgeted stepladder pricing.


 for obsolescence, and start-up costs for the new MK54 Mod 0/1 production contract. The new competitive contract will be managed by NUWC Keyport.


 FY21 option awards) versus 30 kit installs budgeted in FY22.

- COST CODE F5109 ITEM 7.1.1 HAAWC Kits: Increase for procurement of QTY 44 HAAWC Kits. There were no procurements in FY22.


Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity

 1507N / 03 / 2
## P-1 Line Item Number / Title: 3215 / MK-54 Torpedo Mods

Date: April 2022

## Item Number / Title [DODIC]:

1 / MK-54 Torpedo Mods

ID Code (A=Service Ready, B=Not Service Ready) :
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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| 2.1.1) MK-54 KITS MOD $1^{(\dagger)}{ }^{(2)}$ | 556,741.18 | 170 | 94.646 | 604,434.78 | 69 | 41.706 | 574,462.00 | 91 | 52.276 | 627,426.83 | 82 | 51.449 | - | - | - | 627,426.83 | 82 | 51.449 |
| 2.1.2) DIMINISHING MANUFACTURING SOURCES | - | - | 3.790 | - | - | 2.334 | - | - | 2.381 | - | - | 2.428 | - | - | - | - | - | 2.428 |
| 2.1.3) MK-54 ENGINEERING SERVICES / ECPS FOR KITS ${ }^{(3)}$ | - | - | 33.038 | - | - | 18.142 | - | - | 10.145 | - | - | 3.781 | - | - | - | - | - | 3.781 |
| 2.1.4) MK-54 MOD 1 INSTALLATION ${ }^{(4)}$ | - | - | 5.494 | - | - | 1.624 | - | - | 1.539 | - | - | 3.480 | - | - | - | - | - | 3.480 |
| Subtotal: Recurring Cost | - | - | 136.968 | - | - | 63.806 | - | - | 66.341 | - | - | 61.138 | - | - | - | - | - | 61.138 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.2.1) MK-54 NRE ${ }^{(5)}$ | - | - | 10.314 | - | - | - | - | - | - | - | - | 8.100 | - | - | - | - | - | 8.100 |
| Subtotal: Non Recurring Cost | - | - | 10.314 | - | - | - | - | - | - | - | - | 8.100 | - | - | - | - | - | 8.100 |
| Subtotal: Hardware - F5110 MK-54 MOD 1 HARDWARE Cost | - | - | 147.282 | - | - | 63.806 | - | - | 66.341 | - | - | 69.238 | - | - | - | - | - | 69.238 |

Hardware - F5105 FLEET EXERCISE SYSTEMS Cost
Recurring Cost

| 4.1.1) FLEET EXERCISE SYSTEMS ${ }^{(\dagger)}$ | 154,322.58 | 62 | 9.568 | 96,900.00 | 6 | 0.581 | 98,838.00 | 6 | 0.593 | 100,815.00 | 6 | 0.605 | - | - | - | 100,815.00 | 6 | 0.605 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Recurring Cost | - | - | 9.568 | - | - | 0.581 | - | - | 0.593 | - | - | 0.605 | - | - | - | - | - | 0.605 |
| Subtotal: Hardware - <br> F5105 FLEET EXERCISE <br> SYSTEMS Cost | - | - | 9.568 | - | - | 0.581 | - | - | 0.593 | - | - | 0.605 | - | - | - | - | - | 0.605 |

Hardware - F5107 MK-54/ VLA KITS Cost

| Recurring Cost |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 5.1.1) MK-54 / VLA KITS $^{(\dagger)}$ | 99,680.18 | 222 | 22.129 | - |
| 5.1.2) MK-54 / VLA HARDWARE OBSOLESCENCE | - | - | 1.343 | - |
| 5.1.3) MK-54 / VLA INSTALLATION | - | - | 13.308 | - |
| Subtotal: Recurring Cost | - | - | 36.780 | - |
| Subtotal: Hardware - F5107 MK-54/ VLA KITS Cost | - | - | 36.780 | - |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |
| :--- | :--- | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $1507 \mathrm{~N} / 03 / 2$ | P-1 Line Item Number / Title: <br> $3215 /$ MK-54 Torpedo Mods |  |  |

Date: April 2022

## Item Number / Title [DODIC]:

1 / MK-54 Torpedo Mods

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

|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |


| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6.1.1) VLA COMPONENT SETS | 2,255K | 22 | 49.606 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6.1.2) VLA ENGINEERING SVCS/ECPS | - | - | 3.889 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6.1.3) VLA CANISTERS | 216,636.36 | 22 | 4.766 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6.1.4) VLA AUR BUILDUP / INSTALLATION | - | - | 1.527 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 59.788 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware - F5108 VLA COMPONENTS Cost | - | - | 59.788 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hardware - F5109 HAAWC Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.1.1) HAAWC Kits $^{(\dagger)}$ (6) | 82,171.05 | 152 | 12.490 | - | - | - | - | - | - | 189,000.00 | 44 | 8.316 | - | - | - | 189,000.00 | 44 | 8.316 |
| 7.1.2) TM kits $^{(+)}$ | 180,000.00 | 36 | 6.480 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7.1.3) HAAWC <br> Engineering Services/ ECPs | - | - | 4.245 | - | - | 1.409 | - | - | - | - | - | 1.354 | - | - | - | - | - | 1.354 |
| 7.1.4) HAAWC ALA Containers | - | - | 0.966 | - | - | 0.912 | - | - | - | - | - | 1.128 | - | - | - | - | - | 1.128 |
| 7.1.5) HAAWC All Up Round Containers | - | - | 3.183 | - | - | 0.583 | - | - | - | - | - | - | - | - | - | - | - | - |
| 7.1.6) DIMINISHING MANUFACTURING SOURCES | - | - | 0.620 | - | - | 0.260 | - | - | - | - | - | 0.286 | - | - | - | - | - | 0.286 |
| 7.1.7) HAAWC IN-HOUSE PRODUCTION ENGINEERING SUPPORT | - | - | 5.024 | - | - | 2.302 | - | - | - | - | - | 2.456 | - | - | - | - | - | 2.456 |
| Subtotal: Recurring Cost | - | - | 33.008 | - | - | 5.466 | - | - | - | - | - | 13.540 | - | - | - | - | - | 13.540 |
| Subtotal: Hardware - F5109 HAAWC Cost | - | - | 33.008 | - | - | 5.466 | - | - | - | - | - | 13.540 | - | - | - | - | - | 13.540 |

Hardware - F5CA1 CONGRESSIONAL ADDS- TECHNOLOGY INSERTIONS Cost Non Recurring Cost

| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / MK-54 Torpedo Mods |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 3215 / MK-54 Torpedo Mods |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| 8.1.1) CONGRESSIONAL ADDS TECHNOLOGY INSERTIONS | - | - | 4.400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 4.400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware F5CA1 CONGRESSIONAL ADDS- TECHNOLOGY INSERTIONS Cost | - | - | 4.400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hardware - F5CA2 CONGRESSIONAL ADDS - TORPEDO TEST HARDWARE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9.1.1) CONGRESSIONAL ADDS - TORPEDO TEST HARDWARE | - | - | 1.600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 1.600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware F5CA2 CONGRESSIONAL ADDS - TORPEDO TEST HARDWARE Cost | - | - | 1.600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hardware - F5CA3 CONGRESSIONAL ADD Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10.1.1) INTELLIGENT GRAPHICS TORPEDO TEST SET TROUBLESHOOTING MAINTENERS AID | - | - | 4.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 4.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware - F5CA3 CONGRESSIONAL ADD Cost | - | - | 4.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hardware - F5CA4 CONGRESSIONAL ADDS Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11.1.1) LIGHTWEIGHT TORPEDO PSU TEST EQUIPMENT MODERNIZATION | - | - | 3.840 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / MK-54 Torpedo Mods |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 3215 / MK-54 Torpedo Mods |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$M) |
| Subtotal: Non Recurring Cost | - | . | 3.840 | - | - | . | - | - | . | - | - | . | - | - | . | - | - | . |
| Subtotal: Hardware - F5CA4 CONGRESSIONAL ADDS Cost | - | - | 3.840 | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - |
| Support - F5003 SUPPORT EQUIPMENT Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12.1) SUPPORT EQUIPMENT | - | . | 26.493 | - | - | 1.875 | - | - | 1.913 | - | - | 1.951 | - | - | - | - | - | 1.951 |
| Subtotal: Support - F5003 SUPPORT EQUIPMENT Cost | $\square$ | - | 26.493 | - | - | 1.875 | - | - | 1.913 | - | - | 1.951 | - | - | - | - | - | 1.951 |
| Support - F5830 PRODUCTION ENGINEERING IN-HOUSE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13.1) PRODUCTION ENGINEERING INHOUSE ${ }^{(7)}$ | - | - | 119.323 | - | - | 7.376 | - | - | 7.359 | - | - | 7.362 | - | - | - | - | - | 7.362 |
| Subtotal: Support F5830 PRODUCTION ENGINEERING IN-HOUSE Cost | $\cdots$ | - | 119.323 | - | - | 7.376 | - | - | 7.359 | - | - | 7.362 | - | - | - | - | - | 7.362 |
| Support - F5840 QUALITY ASSURANCE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14.1) QUALITY ASSURANCE | - | - | 47.263 | - | - | 4.852 | - | - | 4.797 | - | - | 4.892 | - | - | - | - | - | 4.892 |
| $\qquad$ QUALITY ASSURANCE Cost | - | - | 47.263 | - | - | 4.852 | - | - | 4.797 | - | - | 4.892 | - | - | - | - | - | 4.892 |
| Support - F5860 ACCEPT TEST \& EVALUATIO Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.1) ACCEPT TEST \& EVALUATION | - | - | 73.671 | - | - | 4.062 | - | - | 3.959 | - | - | 4.038 | - | - | - | - | - | 4.038 |
| Subtotal: Support F5860 ACCEPT TEST \& EVALUATION Cost | - | - | 73.671 | - | - | 4.062 | - | - | 3.959 | - | - | 4.038 | - | - | - | - | - | 4.038 |
| Support - F5900 PRODUCTION ENGINEERING CONTRACTOR Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.1) PRODUCTION ENGINEERING CONTRACTOR ${ }^{(8)}$ | - | - | 12.966 | - | - | 0.720 | - | - | 0.734 | - | - | 0.762 | - | - | - | - | - | 0.762 |
| Subtotal: Support- F5900 PRODUCTION ENGINEERNG CONTRACTOR Cost | - | - | 12.966 | - | - | 0.720 | - | - | 0.734 | - | - | 0.762 | - | - | - | - | - | 0.762 |
| Support - WAXXX ACQUISITION WORKFORCE FUNDING - 2009 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-5, Cost Analysis: PB 2023 Navy


## P-1 Line Item Number / Title: 3215 / MK-54 Torpedo Mods

Date: April 2022

## Item Number / Title [DODIC]:

1 / MK-54 Torpedo Mods

MDAP/MAIS Code:

| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| 17.1) ACQUISITION WORKFORCE FUNDING - 2009 | - | - | 0.287 | - | - | - | - - | - | - | - - | - | - | - | - | - | - | - | - |
| Subtotal: Support - <br> WAXXX ACQUISITION WORKFORCE FUNDING 2009 Cost | - | - | 0.287 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - F5103 FIELD SUPPORT OPERATIONS Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18.1) MK-46 MOD 5A (SW) SLEP KITS | - | - | 1.561 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support F5103 FIELD SUPPORT OPERATIONS Cost | - | - | 1.561 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - F5106 MK-54 PLATFORM INTEGRATION Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19.1) MK-54 PLATFORM INTEGRATION | - | - | 0.697 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - F5106 MK-54 PLATFORM INTEGRATION Cost | - | - | 0.697 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | 2,110K | 651 | 1,373.552 | - | - | 103.441 | - | - | 94.168 | - | - | 106.772 | - | - | 0.000 | - | - | 106.772 |

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

## Footnotes:

${ }^{(1)}$ ITEM 1.1.3 MK 54 MOD 0 Kit Installation: FY23 funding requests supports 39 kits scheduled to be delivered and installed from prior year procurements (from FY20 option award) versus 102 kits budgeted in FY22.
${ }^{(2)}$ F5110 ITEM 2.1.1 MK 54 MOD 1 Kit Procurement: Quantity in FY23 was reduced due to a one-time Non-Recurring Engineering (NRE) cost to support award of a new competitive MK 54 MOD $0 / 1$ Common Parts Contract. Unit cost increase in FY23 due to lower MK 54 Mod 1 Kit procurement quantities from 91 in FY22 to 82 in FY23 based on budgeted stepladder pricing.
${ }^{(3)}$ ITEM 2.1.3 MK 54 ENGINEERING SERVICES / ECPS FOR KITS: FY23 Engineering Services funding decreases from FY22 because the MOD 1 obsolescence redesign work is transitioning from design and build into testing effort in FY23. The funding level in FY23 for MK 54 MOD 1 production engineering service/ECPs is the annualized contract engineering services support required.
${ }^{(4)}$ ITEM 2.1.4 MK 54 MOD 1 INSTALLATION: Funding provides for government installation of the MK54 Mod 1 Kits and Afterbodies into All Up Rounds (AUR) as shown on the P-21. Installation occurs one month after delivery and the installation is budgeted for in the year the installation is planned to occur. FY23 funding requests supports 64 kits scheduled to be delivered and installed from prior year procurements (9 from FY20 option and 55 from FY21 option awards) versus 30 kit installs budgeted in FY22.
${ }^{(5)}$ ITEM 2.2.1 MK 54 Non-Recurring Engineering (NRE): Funding increases to $\$ 8.1 \mathrm{M}$ in FY23 since there was not a requirement for NRE in FY22. NRE is required to support the award of a new competitive MK 54 MOD 0 Kits Contract which provides the afterbody upgrade components, Inertial Measurements Unit (IMU) and Control Group Assembly (CGA) for the MK 54 MOD 1 Kit. Non-Recurring Engineering (NRE) funds the procurement of Proof Of Manufacturing units for the MK 54 Mod 0/1 Common Afterbody for Design Verification Testing, first article testing, tooling and test equipment, design updates for obsolescence, and start-up costs for the new MK 54 Mod 0/1 production contract. The new competitive contract will be managed by NUWC Keyport.

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 2 | P-1 Line Item Number / Title: 3215 / MK-54 Torpedo Mods | Item Number / Title [DODIC]: 1 / MK-54 Torpedo Mods |
| ID Code (A=Service Ready, B=Not Service Ready) : |  | MDAP/MAIS Code: |
| ${ }^{(6)}$ ITEM 7.1.1 HAAWC Kits: Increase for procurement of QTY 44 HAAWC Kits. there were no procurements in FY22. <br> ${ }^{(7)}$ The FY23 funding request is slightly above inflation due to additional hours required to support the new sole source contract award to Progeny and a new Common Parts competitive contract award. <br> ${ }^{(8)}$ The FY23 funding request is slightly higher than inflation due to additional hours required for Program Office support of the new sole source contract award to Progeny and a new Common Parts competitive award. |  |  |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / MK-54 Torpedo Mods |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 2 |  |  |  | Line Item Nu 5 / MK-54 Torp | er / Title: <br> do Mods |  |  |  |  |  |  |  |
| Cost Elements | O O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty <br> (Each) | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) MK-54 KITS - MOD $0^{(\dagger)}$ |  | 2013 | RAYTHEON/NORTHROP GRUMMAN I PORTSMOUTH, RHODE ISLAND/ANNAPOLIS, MD | C / FFP | NAVSEA | Sep 2013 | Jul 2018 | 150 | 311,000.00 | Y |  |  |
| 1.1.1) MK-54 KITS - MOD $0^{(\dagger)}$ |  | 2014 | RAYTHEON/NORTHROP GRUMMAN / PORTSMOUTH, RHODE ISLAND/ANNAPOLIS, MD | C/FFP | NAVSEA | Aug 2014 | Sep 2019 | 214 | 256,532.71 | Y |  |  |
| 1.1.1) MK-54 KITS - MOD $0^{(\dagger)}$ |  | 2015 | RAYTHEON/NORTHROP GRUMMAN / PORTSMOUTH, RHODE ISLAND/ANNAPOLIS,MD | C / FFP | NAVSEA | Aug 2015 | Apr 2020 | 100 | 325,000.00 | Y |  |  |
| 1.1.1) MK-54 KITS - MOD $0^{(\dagger)}$ |  | 2016 | RAYTHEON/NORTHROP GRUMMAN. I PORTSMOUTH, RHODE ISLAND/ANNAPOLIS, MD | C/FFP | NAVSEA | Aug 2016 | Jul 2020 | 78 | 292,367.00 | Y |  |  |
| 1.1.1) MK-54 KITS - MOD $0^{(\dagger)}$ |  | 2017 | RAYTHEON/NORTHROP GRUMMAN. I PORTSMOUTH, RHODE ISLAND/ANNAPOLIS, MD | C/ FFP | NAVSEA | Aug 2017 | Oct 2020 | 116 | 304,732.76 | Y |  |  |
| 1.1.1) MK-54 KITS - MOD $0^{(\dagger)}$ |  | 2018 | RAYTHEON /ULTRA / PORTSMOUTH, RI / BRAINTREE, MA | C/FFP | NAVSEA | Aug 2018 | Feb 2021 | 104 | 335,625.00 | Y |  |  |
| 1.1.1) MK-54 KITS - MOD $0^{(\dagger)}$ |  | 2019 | RAYTHEON /ULTRA / PORTSMOUTH, RI / BRAINTREE, MA | C/FFP | NAVSEA | Jul 2019 | Jul 2021 | 66 | 371,969.70 | Y |  |  |
| 1.1.1) MK-54 KITS - MOD $0^{(\dagger)}$ |  | 2020 | RAYTHEON /ULTRA / PORTSMOUTH, RI / BRAINTREE, MA | C/FFP | NAVSEA | Jul 2020 | Jul 2022 | 43 | 372,116.28 | Y |  |  |
| 2.1.1) MK-54 KITS - MOD $1^{(\dagger)}$ |  | 2014 | PROGENY/RAYTHEON - FY14 I MANASSAS VA/PORTSMOUTH, RI | SS / FFP | NAVSEA | Jul 2016 | Jan 2018 | 40 | 510,000.00 | Y |  | Jun 2014 |
| 2.1.1) MK-54 KITS - MOD $1^{(\dagger)}$ |  | 2016 | PROGENY / RAYTHEON - FY16 I MANASSAS VA /PORTSMOUTH,RI | SS/FFP | NAVSEA | Jul 2016 | Nov 2018 | 40 | 525,000.00 | Y |  |  |
| 2.1.1) MK-54 KITS - MOD $1^{(\dagger)}$ |  | 2017 | PROGENY/RAYTHEON - FY17 I MANASSAS VA/PORTSMOUTH,RI | SS /FFP | NAVSEA | Aug 2018 | Jan 2020 | 30 | 533,000.00 | Y |  |  |
| 2.1.1) MK-54 KITS - MOD $1^{(\dagger)}$ |  | 2018 | PROGENY/RAYTHEON- FY18 I MANASSAS VA / Portsmith RI | SS /FFP | NAVSEA | Aug 2018 | Jan 2021 | 30 | 615,733.33 | Y |  |  |
| 2.1.1) MK-54 KITS - MOD $1^{(\dagger)}$ |  | 2020 | PROGENY/RAYTHEON - FY20 I MANASSAS VA / Portsmith RI | SS/FFP | NAVSEA | Dec 2019 | Jan 2022 | 30 | 626,133.33 | Y |  |  |
| 2.1.1) MK-54 KITS - MOD $1^{(\dagger)}$ |  | 2021 | PROGENY/Raytheon - FY21 I MANASSAS VA / Portsmith RI | SS /FFP | NAVSEA / KPT | Dec 2020 | Jan 2023 | 69 | 604,434.78 | Y |  |  |
| 2.1.1) MK-54 KITS - MOD $1^{(\dagger)}$ |  | 2022 | $\begin{aligned} & \text { PROGENY/Raytheon - FY22 } \\ & \text { / MANASSAS VA / TBD } \end{aligned}$ | SS / FFP | NAVSEA / KPT | Dec 2021 | Jan 2024 | 91 | 574,462.00 | Y |  |  |
| 2.1.1) MK-54 KITS - MOD $1^{(\dagger)}$ |  | 2023 | PROGENY/CTR TBD - FY23 <br> / MANASSAS VA / TBD | SS / FFP | NAVSEA / KPT | Feb 2023 | Mar 2025 | 82 | 627,426.83 | Y |  |  |
| 4.1.1) FLEET EXERCISE SYSTEMS |  | 2015 | NUWC KEYPORT I KEYPORT WASHINGTON | C/FFP | NUWC,KPT | Jan 2015 | Jan 2016 | 6 | 88,000.00 | Y |  |  |
| 4.1.1) FLEET EXERCISE SYSTEMS |  | 2016 | NUWC KEYPORT I KEYPORT WASHINGTON | C/FFP | NUWC, KPT | Jan 2016 | Jan 2017 | 6 | 89,000.00 | Y |  |  |

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 2 |  |  |  | P-1 Line Item Number / Title: 3215 / MK-54 Torpedo Mods |  |  |  | Item Number / Title [DODIC]: <br> 1 / MK-54 Torpedo Mods |  |  |  |  |
| Cost Elements | O C O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 4.1.1) FLEET EXERCISE SYSTEMS |  | 2017 | NUWC KEYPORT I KEYPORT WASHINGTON | C/FFP | NUWC, KPT | Sep 2017 | Sep 2018 | 6 | 90,000.00 | Y |  |  |
| 4.1.1) FLEET EXERCISE SYSTEMS |  | 2018 | NUWC KEYPORT I KEYPORT WASHINGTON | C/FFP | NUWC, KPT | Sep 2018 | Sep 2019 | 2 | 91,666.67 | Y |  |  |
| 4.1.1) FLEET EXERCISE SYSTEMS |  | 2019 | NUWC KEYPORT I KEYPORT WASHINGTON | C/FFP | NUWC, KPT | Sep 2019 | Sep 2020 | 6 | 93,333.33 | Y |  |  |
| 4.1.1) FLEET EXERCISE SYSTEMS |  | 2020 | NUWC KEYPORT I KEYPORT WASHINGTON | C/FFP | NUWC, KPT | Sep 2020 | Sep 2021 | 6 | 95,000.00 | Y |  |  |
| 4.1.1) FLEET EXERCISE SYSTEMS | $\checkmark$ | 2020 | NUWC KEYPORT I KEYPORT WASHINGTON | C/FFP | NUWC, KPT | Sep 2020 | Sep 2021 | 6 | 0.00 | Y |  |  |
| 4.1.1) FLEET EXERCISE SYSTEMS |  | 2021 | NUWC KEYPORT I KEYPORT WASHINGTON | C/FFP | NUWC, KPT | Sep 2021 | Sep 2022 | 6 | 96,900.00 | Y |  |  |
| 4.1.1) FLEET EXERCISE SYSTEMS |  | 2022 | NUWC KEYPORT I KEYPORT WASHINGTON | C/FFP | NUWC, KPT | Sep 2022 | Sep 2023 | 6 | 98,838.00 | Y |  |  |
| 4.1.1) FLEET EXERCISE SYSTEMS |  | 2023 | NUWC KEYPORT I KEYPORT WASHINGTON | C/FFP | NUWC, KPT | Sep 2023 | Sep 2024 | 6 | 100,815.00 | Y |  |  |
| 5.1.1) MK-54 / VLA KITS |  | 2016 | LOCKHEED MARTIN / OWEGO NY | SS/FP | NAVSUP, WSS | Jul 2016 | Nov 2017 | 32 | 48,968.75 | Y |  |  |
| 5.1.1) MK-54 / VLA KITS |  | 2017 | LOCKHEED MARTIN / AKRON OH | SS/FFP | NAVSUP,WSS | Jul 2017 | Nov 2018 | 40 | 49,750.00 | Y |  |  |
| 7.1.1) HAAWC Kits ${ }^{(+)}$ |  | 2019 | BOEING INC FY19 / ST LOUIS, MO | SS/FP | NAVSEA | Jan 2019 | Jul 2021 | 117 | 52,012.00 | $Y$ |  |  |
| 7.1.1) HAAWC Kits ${ }^{(+)}$ |  | 2020 | BOEING INC / ST LOUIS, MO | SS/FFP | NAVSEA | May 2022 | Mar 2024 | 35 | 183,000.00 | Y |  |  |
| 7.1.1) HAAWC Kits ${ }^{(+)}$ |  | 2023 | BOEING INC / ST LOUIS, MO | SS/FFP | NAVSEA | May 2023 | Mar 2025 | 44 | 189,000.00 | Y |  |  |
| 7.1.2) TM kits |  | 2019 | FY19 BOEING INC. I ST LOUIS, MO | C/FFP | NAVSEA | Nov 2019 | Nov 2020 | 36 | 180,000.00 | Y |  |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / MK-54 Torpedo Mods |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 3215 / MK-54 Torpedo Mods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { Cost Elements } \\ & \text { (Units in Each) } \\ & \hline \end{aligned}$ |  |  |  |  |  | Fiscal Year 2017 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2018 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2017 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2018 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | PRIOR TO 1 OCT 2016 | $\begin{array}{\|c\|} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{array}$ | $\begin{aligned} & 0 \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | J A N | $\begin{aligned} & F \\ & E \\ & E \end{aligned}$ | M A R | A <br>  <br> P <br> R | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J u L | A U G | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J U N | J U L | A U G | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 1.1.1) MK-54 KITS - MOD 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 713 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2013 | NAVY | 150 | 0 | 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 31 | 29 | 1 | 89 |
| 1 | 2014 | NAVY | 214 | 0 | 214 | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 214 |
| 2 | 2015 | NAVY | 100 | 0 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 100 |
| 4 | 2016 | NAVY | 78 | 0 | 78 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 78 |
| 4 | 2017 | NAVY | 116 | 0 | 116 |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 116 |
| 3 | 2018 | NavY | 104 | 0 | 104 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | 104 |
| 3 | 2019 | NAVY | 66 | 0 | 66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 66 |
| 3 | 2020 | NAVY | 43 | 0 | 43 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 43 |
| 2.1.1) MK-54 KITS - MOD $1^{(2)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 2014 | NAVY | 40 | 0 | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 6 | 2016 | NAVY | 40 | 0 | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 40 |
| 7 | 2017 | NAVY | 30 | 0 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | 30 |
| 8 | 2018 | NAVY | 30 | 0 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | 30 |
| 9 | 2020 | NavY | 30 | 0 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 |
| 10 | 2021 | NAVY | 69 | 0 | 69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 69 |
| 11 | 2022 | NAVY | 91 | 0 | 91 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 91 |
| 12 | 2023 | NavY | 82 | 0 | 82 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 82 |
| 7.1.1) HAAWC Kits ${ }^{(6)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ${ }^{13}$ | 2019 | NAVY | 117 | 0 | 117 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 117 |
| 14 | 2020 | NAVY | 35 | 0 | 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 35 |
| 14 | 2023 | NavY | 44 | 0 | 44 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 44 |
|  |  |  |  |  |  | O c T | N V v | D E c | J A N | F E B | M <br>  <br> R | A P R | M A Y | J N N | ${ }_{\text {J }}^{\text {u }}$ | A U G | S E P | O c T | N | D E c | J A N | F E B | M A R | A P R | M A Y | J | ${ }_{\text {J }}^{\text {u }}$ | A U G | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 3215 / MK-54 Torpedo Mods |  |  |  |  |  |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 1 / MK-54 Torpedo Mods |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2026 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \\ & \mathbf{E} \\ & \hline \end{aligned}$ |
|  | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \hline \text { ACCEPT } \\ \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ \text { 2024 } \\ \hline \end{array}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ |  |  |  |  |  |  |  |  | endar | ear 20 |  |  |  |  |  |  | Calendar Year 2026 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> R | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | A | S |  | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> R | M A Y | J U | J | A | S E P |  |
| 1.1.1) MK-54 KITS - MOD 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 713 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2013 | Navy | 150 | 150 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2014 | NAVY | 214 | 214 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2015 | NAVY | 100 | 100 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 4 | 2016 | NAVY | 78 | 78 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 4 | 2017 | NAVY | 116 | 116 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2018 | NAVY | 104 | 104 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2019 | NAVY | 66 | 66 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 3 | 2020 | NAVY | 43 | 43 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2.1.1) MK-54 KITS - MOD $1^{(2)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 2014 | NAVY | 40 | 40 | , |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 6 | 2016 | NAVY | 40 | 40 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7 | 2017 | NAVY | 30 | 30 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 8 | 2018 | Navy | 30 | 30 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 9 | 2020 | NAVY | 30 | 30 | , |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 10 | 2021 | NAVY | 69 | 69 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 11 | 2022 | NAVY | 91 | 73 | 18 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 12 | 2023 | NAVY | 82 | 0 | 82 | - | - | - | - | - |  |  |  | 7 | 7 |  |  | 7 | 7 |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7.1.1) HAAWC Kits ${ }^{(6)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 2019 | NAVY | 117 | 117 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 14 | 2020 | NAVY | 35 | 21 | 14 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 14 | 2023 | Navy | 44 | 0 | 44 | - | - | - |  |  |  |  |  | 4 | 4 |  |  | 4 | 4 |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

UNCLASSIFIED

| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 1507N / } 03 \text { / } 2$ |  |  |  |  | P-1 Line Item Number / Title: <br> 3215 / MK-54 Torpedo Mods |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / MK-54 Torpedo Mods |  |  |
| MFR Ref \# | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  |  | ALT <br> Prior to Oct 1 | 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 | RAYTHEON/NORTHROP GRUMMAN - <br> PORTSMOUTH, RHODE ISLAND/ANNAPOLIS, MD | 120 | 216 | 312 | 0 | 0 | 41 | 41 | 0 | 0 | 23 | 23 |
| 2 | RAYTHEON/NORTHROP GRUMMAN - <br> PORTSMOUTH, RHODE ISLAND/ANNAPOLIS,MD | 120 | 216 | 312 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 24 |
| 3 | RAYTHEON /ULTRA - PORTSMOUTH, RI / BRAINTREE, MA | 120 | 216 | 312 | 0 | 0 | 21 | 21 | 0 | 0 | 24 | 24 |
| 4 | RAYTHEON/NORTHROP GRUMMAN. - <br> PORTSMOUTH, RHODE ISLAND/ANNAPOLIS, MD | 120 | 216 | 312 | 0 | 0 | 28 | 28 | 0 | 0 | 24 | 24 |
| 5 | PROGENY/RAYTHEON - FY14 - MANASSAS VA/ PORTSMOUTH, RI |  |  | TBD | 0 | 0 | 18 | 18 | 0 | 0 | 18 | 18 |
| 6 | PROGENY / RAYTHEON - FY16 - MANASSAS VA / PORTSMOUTH,RI |  |  | TBD | 0 | 0 | 28 | 28 | 0 | 0 | 28 | 28 |
| 7 | PROGENY/RAYTHEON - FY17 - MANASSAS VA/ PORTSMOUTH,RI |  |  | TBD | 0 | 0 | 17 | 17 | 0 | 0 | 17 | 17 |
| 8 | PROGENY/RAYTHEONFY18 - MANASSAS VA / Portsmith RI | 24 | 51 | TBD | 0 | 0 | 29 | 29 | 0 | 0 | 29 | 29 |
| 9 | PROGENY/RAYTHEON FY20 - MANASSAS VA / Portsmith RI | 24 | 51 | TBD | 0 | 0 | 25 | 25 | 0 | 0 | 25 | 25 |
| 10 | PROGENY/Raytheon - FY21 - MANASSAS VA / Portsmith RI | 24 | 51 | 200 | 0 | 0 | 25 | 25 | 0 | 0 | 25 | 25 |
| 11 | PROGENY/Raytheon - FY22 <br> - MANASSAS VA / TBD |  |  | TBD | 0 | 0 | 25 | 25 | 0 | 0 | 25 | 25 |
| 12 | PROGENY/CTR TBD - FY23 <br> - MANASSAS VA / TBD |  |  | TBD | 0 | 0 | 25 | 25 | 0 | 0 | 0 | 0 |
| 13 | BOEING INC FY19-ST LOUIS, MO |  |  | TBD | 0 | 0 | 30 | 30 | 0 | 0 | 9 | 9 |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 3215 / MK-54 Torpedo Mods |  |  |  |  | Item Number / Title [DODIC]: 1 / MK-54 Torpedo Mods |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | der |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 | MAX For 2023 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ |  | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 14 | BOEING INC - ST LOUIS, мо |  |  | TBD | 0 | 0 | 22 | 22 | 0 | 0 | 0 | 0 |

## "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:
1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment /
BSA 2: Mod of Torpedoes and Related Equip

## P-1 Line Item Number / Title:

3225 / MK-48 Torpedo ADCAP Mods

| 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 2021 | FY 2022 | $\text { FY } 2023$ <br> Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 58 | - | - | - | - | - | - | - | - | - | - | 58 |
| Gross/Weapon System Cost (\$ in Millions) | 1,304.305 | 55.699 | 27.987 | 18.502 | 0.000 | 18.502 | 19.862 | 61.631 | 62.181 | 63.152 | - | 1,613.319 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,304.305 | 55.699 | 27.987 | 18.502 | 0.000 | 18.502 | 19.862 | 61.631 | 62.181 | 63.152 | - | 1,613.319 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,304.305 | 55.699 | 27.987 | 18.502 | 0.000 | 18.502 | 19.862 | 61.631 | 62.181 | 63.152 | - | 1,613.319 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 1.398 | 0.244 | - | - | - | - | - | - | - | - | 1.642 |
| Flyaway Unit Cost (\$ in Dollars) | 0.00 | - | - | - | - | - | - | - | - | - | - | 0.00 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | $22,488 \mathrm{~K}$ | - | - | - | - | - | - | - | - | - | - | 27,816K |

## Description:

 from FY19 option and 4 from FY20) for Heavyweight Torpedo upgrades.

The CBASS torpedo kit consists of three major components: Guidance \& Control Box (GCB), a Broadband Sonar Analog Receiver (BSAR), and preamplifier. Procurement of GCB continues from Mods in production since FY 2002 and procurement of the BSAR began in FY 2004. The BSAR is a CBASS specific item, which consists of a preamplifier, receiver, and interfacing hardware that provides the capability to transmit and receive over a wide frequency band; taking advantage of broadband signal processing techniques. This provides for improvements in advanced threat countermeasures (CMs) capabilities.
[P5 / D1001 Hardware]: Funding under this cost code provides for the procurement of CBASS hardware kits from the contractor.

- Engineering Services / Engineering Change Proposals (ECP) funding for (1)studies, (2)plans, (3)design changes, and (4)implementation of design changes by the contractor; primarily due to obsolescence that occurs during the contract performance.
- Non-Recurring Engineering (NRE) funding to resolve production issues, including obsolescence. Non-Recurring Engineering (NRE) funds the procurement of Proof of Manufacturing (POM) units for government testing, first article testing, tooling and test equipment, procurement of technical data package updates, and start-up costs for the production contract.
- Installation funding for government installation of kits procured in prior years. The installation includes required upgrades to convert the MK 48 MOD 6 Torpedo into a MK 48 MOD 7 Torpedo. The pre-amp, guidance control box, EMI filter, and Broadband Sonar Analog Receiver (BSAR) are installed at the government Intermediate Maintenance Activity.
- Diminishing Manufacturing Sources (DMS) funds are provided to procure electronic parts, which are declared obsolete by the original equipment manufacturing. This is done to avoid the cost of an expensive redesign in the CBASS kit during execution of the production contract. The contractor will be required to procure, deliver, and store the MK 48 Mod 7 DMS material for these obsolete components.
[P5 / D1002 - MK 48 MOD 8 Hardware]: This cost code provides for the procurement of the MK 48 MOD 8 Guidance \& (G\&C) Section upgrade, which will supply a new G\&C section, including new Sonar Assembly (higher density array, transmitter, receiver), Guidance and Control Box (GCB), Tuning Box, and an Ethernet device switch. In addition to the G\&C section, the MOD 8 upgrade will also feature a new Warhead Electronics System (WES) to support improved fuzing and the Improved Post Launch Communications System (IPLCS), which will replace the existing copper guidance wire with fiber optics. Improvements are needed in the presence of advanced countermeasures, shallow water, low Doppler targets, Very Shallow Water (VSW), improved fuzing and Anti Surface Warfare (ASuW) performance. MK 48 MOD 8 upgrade allows full fleet introduction of the APB-6 and to meet requirements of MK 48 Improvements CDD (857-97-12). Other Items in this Cost Code include:
-Engineering services / Engineering Change Proposals (ECPs) funding for (1)studies, (2)plans, (3)design changes, and (4)implementation of design changes by the contractor(s), primarily due to obsolescence that occurs during the


## Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / <br> BSA 2: Mod of Torpedoes and Related Equip

P-1 Line Item Number / Title:
ID Code (A=Service Ready, B=Not Service Ready): A $\quad$ Program Elements for Code B Items: N/A $\quad$ Other Related Program Elements: N/A

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

contract performance.


 the contractor facility for assembly, testing, and integration.



 are effectively addressed. Funding is also provided for program office acquisition support.
 review of the documentation indicating conformity to product performance requirements, and review of objective quality evidence.
[P5 / D1860-Acceptance T\&E (Contractor \& In-House)]: Funding under this cost code provides for Government production acceptance testing of contractor hardware.
[P5 / D1CA1 - Congressional Add - Obsolescence]: Funding under this cost code provides for production engineering tasks associated with MK-48 hardware obsolescence.
 cards.


| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / BSA 2: Mod of Torpedoes and Related Equip |  |  |  |  |  | P-1 Line Item Number / Title: 3225 / MK-48 Torpedo ADCAP Mods |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1/ MK-48 Torpedo ADCAP Mods | P-5a, P-21 |  |  | 58/1,304.305 | - 155.699 | - 127.987 | - /18.502 | - 10.000 | - 118.502 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 58/1,304.305 | - 155.699 | - /27.987 | - /18.502 | - 10.000 | - 118.502 |

*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:
FY23 Program Changes:
The FY 2023 funding request was adjusted by $\$ 2.0 \mathrm{M}$ to account for the availability of prior year execution balances.
D1001: CBASS Kits 1.1.2: No procurement funding required in FY23, FY22 is the last year of CBASS kits procurements.
D1001 Engineering Services 1.1.3: FY23 funding request decreases from FY22 to support contractor engineering services and ECPs due to FY22 Prior Year Carryover.
 kits installed in FY22.

Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 03 / 2
## P-1 Line Item Number / Title: 3225 / MK-48 Torpedo ADCAP Mods

Date: April 2022

## Item Number / Title [DODIC]:

1 / MK-48 Torpedo ADCAP Mods

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

| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 58 | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 1,304.305 | 55.699 | 27.987 | 18.502 | 0.000 | 18.502 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,304.305 | 55.699 | 27.987 | 18.502 | 0.000 | 18.502 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,304.305 | 55.699 | 27.987 | 18.502 | 0.000 | 18.502 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 1.398 | 0.244 | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | 22,488K | - | - | - | - | - |

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

|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |

## Hardware - D1001 Hardware Cost

| Recurring Cost |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1.1) ADCAP Mod Kits | - | - | 228.988 | - | - |
| 1.1.2) CBASS Kits $^{(+)}$ <br> (1) | 283,909.09 | 1,111 | 315.423 | 346,558.82 | 34 |
| 1.1.3) CBASS Engineering Services/ ECPs ${ }^{(2)}$ | - | - | 44.350 | - | - |
| $\begin{aligned} & \text { 1.1.4) CBASS } \\ & \text { Installation }^{(3)} \end{aligned}$ | - | - | 52.044 | - | - |
| 1.1.5) Diminishing Manufacturing Sources | - | - | 1.722 | - | - |
| Subtotal: Recurring Cost | - | - | 642.527 | - | - |


| - | - | - | - | - | - |
| ---: | ---: | ---: | ---: | ---: | ---: |
| 11.783 | $374,800.00$ | 20 | 7.496 | - | - |
| 4.864 | - | - | 2.360 | - | - |
| 5.310 | - | - | 3.360 | - | - |
| 0.206 | - | - | 0.210 | - | - |
| 22.163 | - | - | 13.426 | - | - |


| - | - | - | - | - | - | - |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| - | - | - | - | - | - | - |
| 1.103 | - | - | - | - | - | 1.103 |
| 3.599 | - | - | - | - | - | 3.599 |
| - | - | - | - | - | - | - |
| 4.702 | - | - | - | - | - | 4.702 |


| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.2.1) CBASS NRE | - | - | 50.497 | - | - | 18.407 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 50.497 | - | - | 18.407 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware - D1001 <br> Hardware Cost | - | - | 693.024 | - | - | 40.570 | - | - | 13.426 | - | - | 4.702 | - | - | - | - | - | 4.702 |
| Support - D1003-Support and Ancillary Equipment Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) Support \& Ancillary Equipment | - | - | 58.162 | - | - | 1.718 | - | - | 1.752 | - | - | 1.420 | - | - | - | - | - | 1.420 |



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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 2 |  |  |  | P-1 Line Item Number / Title: 3225 / MK-48 Torpedo ADCAP Mods |  |  |  |  | Item Number / Title [DODIC]: 1 / MK-48 Torpedo ADCAP Mods |  |  |  |  |
| Cost Elements | \|l| | 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 <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.2) CBASS Kits ${ }^{(\dagger)}$ |  | 2018 | LOCKHEED MARTIN/SIPPICAN FY18 Option / Marion, MA |  | C/FFP | NAVSEA | Aug 2018 | Jul 2021 | 53 | 204,193.00 | Y |  |  |
| 1.1.2) CBASS Kits ${ }^{(\dagger)}$ |  | 2019 | LOCKHEED MARTIN/SIPPICAN FY19 Option / Marion, MA |  | C/FFP | NAVSEA | Jun 2019 | Jul 2022 | 79 | 205,964.00 | Y |  |  |
| 1.1.2) CBASS Kits ${ }^{(\dagger)}$ |  | 2020 | LOCKHEED MARTIN/SIPPICAN <br> FY20 Option / Marion, MA |  | C/FFP | NAVSEA | Sep 2020 | Jun 2023 | 54 | 231,462.96 | Y |  |  |
| 1.1.2) CBASS Kits ${ }^{(\dagger)}$ |  | $2021{ }^{(4)}$ | LOCKHEED MARTIN SIPPICAN / FY21 Option / Marion, MA |  | C/FFP | NAVSEA | Nov 2021 | Jun 2024 | 34 | 346,558.82 | Y |  |  |
| 1.1.2) CBASS Kits ${ }^{(+)}$ |  | $2022{ }^{(5)}$ | LOCKHEED MARTIN SIPPICAN / FY22 Base Year / Marion, MA |  | SS/FFP | NAVSEA | Sep 2022 | Jun 2025 | 20 | 374,800.00 | Y |  |  |

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

## Footnotes:

${ }^{(4)}$ A new competitive contract awards in FY21. Longer lead time due to delivery of Proof of Manufacturing (POM) units prior to FRP.
${ }^{(5)}$ FY22 Unit Price is in the same stair step pricing as FY21, so the increase in FY22 unit price is due to inflation of 2\%.

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / MK-48 Torpedo ADCAP Mods |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3225 / MK-48 Torpedo ADCAP Mods |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | $\begin{aligned} & \text { PROC } \end{aligned}$ | $\begin{array}{\|c\|} \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2021 \end{array}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & F \\ & E \\ & E \\ & B \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \mathrm{R} \end{aligned}$ | A P R | M A Y | J | J | A U G | S E P | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A $\mathbf{p}$ R | M A Y | J ${ }_{\text {J }}^{\text {U }}$ | J u L | A u G | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 1.1.2) | CBASS | Kits ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | ears D | eliveries: 925 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | NavY | 53 | 21 | 32 | 3 |  | 3 | 4 | 4 | 4 |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 2 | 2019 | NavY | 79 | 0 | 79 | - | - | - | - | - | - | - | - | - |  |  |  | 7 |  | 6 | 6 | 6 | 6 |  |  | 6 |  |  |  | 0 |
| 3 | 2020 | NavY | 54 | 0 | 54 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 50 |
| 4 | 2021 | NAVY | 34 | 0 | 34 |  | A - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - |  | - | - | - | - | 34 |
| 5 | 2022 | NavY | 20 | 0 | 20 |  |  |  |  |  |  |  |  |  |  |  | A - | - |  | - | - | - | - | - |  | - | - | - | - | 20 |
|  |  |  |  |  |  | O c T | N | D E c | $\begin{aligned} & \hline \text { J } \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \hline F \\ & \hline \\ & E \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br> P <br> R | M A Y | J | J | A | S <br>  <br> E <br> P | $\begin{aligned} & \hline \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br> P <br> R | M A Y | J U N | J | A | S <br>  <br> E <br> P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 1507N / } 03 \text { / } 2$ |  |  |  |  | P-1 Line Item Number / Title: <br> 3225 / MK-48 Torpedo ADCAP Mods |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / MK-48 Torpedo ADCAP Mods |  |  |
| MFR Ref \# | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | 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/ SIPPICAN FY18 Option Marion, MA | 30 | 50 | 90 | 0 | 0 | 35 | 35 | 0 | 0 | 35 | 35 |
| 2 | LOCKHEED MARTIN/ SIPPICAN FY19 Option Marion, MA | 30 | 50 | 90 | 0 | 0 | 37 | 37 | 0 | 0 | 37 | 37 |
| 3 | LOCKHEED MARTIN/ SIPPICAN FY20 Option Marion, MA | 30 | 50 | 90 | 0 | 0 | 28 | 28 | 0 | 0 | 33 | 33 |
| 4 | LOCKHEED MARTIN SIPPICAN / FY21 Option Marion, MA |  |  | TBD | 0 | 0 | 31 | 31 | 0 | 0 | 31 | 31 |
| 5 | LOCKHEED MARTIN SIPPICAN / FY22 Base Year - Marion, MA |  |  | TBD | 0 | 0 | 33 | 33 | 0 | 0 | 33 | 33 |

"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 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment /
P-1 Line Item Number / Title:
BSA 2: Mod of Torpedoes and Related Equip

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

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\text { FY } 2023$ <br> Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 81.070 | 5.832 | 8.567 | 9.282 | 0.000 | 9.282 | 45.229 | 46.551 | 47.479 | 48.330 | - | 292.340 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 81.070 | 5.832 | 8.567 | 9.282 | 0.000 | 9.282 | 45.229 | 46.551 | 47.479 | 48.330 | - | 292.340 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 81.070 | 5.832 | 8.567 | 9.282 | 0.000 | 9.282 | 45.229 | 46.551 | 47.479 | 48.330 | - | 292.340 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | $\square$ | - | - | $\square$ | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

 Launched Mobile Mine (SLMM), the MK 68 Clandestine Delivered Mine (CDM), and the Hammerhead Encapsulated Effector.

QS is a family of shallow water, aircraft laid mines used against surface and subsurface targets. The QS family of mines has 3 variants based on size - the MK 62 , MK 63 , and MK 65 . The MK 62 and MK 63 ( 500 lb . and 1000 lb ., respectively) QS are created by adding mine hardware to the MK 82 and MK 83 general purpose bombs. The MK 65 ( 2400 lb .) QS consists entirely of hardware designed for use as a mine. The MOD 0,1 , and 3 variants utilize various Target Detecting Devices (TDD). The QS MOD 3 utilizes a TDD MK 71, which is a software-programmable device capable of being programmed to optimize detection of new threats. For the QS MK 62 and 63, the QS MOD 3 Kit consists of the TDD MK 71, MK 75 Safety and Arming (S\&A) device, MK 176 battery, MK 163 TDD Adapter Ring, and miscellaneous hardware. For the QS MK 65, the MOD 3 Kit consists of the TDD MK 71, the existing S\&A device, the existing batteries (MK 131 or 132), MK 157 TDD Adapter, and miscellaneous hardware. Additional support hardware for the QS MK 62/63/65 MOD 3 includes MK 650 Test Set and MK 11 Programmer.

Several aerial delivery improvements are in development to support capabilities required by a JEONS. This includes adding GPS-guided, powered and glide flight gear to the QS series to reduce risk to delivery aircraft by introducing precision placement and standoff range. This effort includes development and execution of the Quickstrike-Extended Range (QS-ER) mines.

The MK 68 CDM uses existing MK 67 SLMM components to provide a mine delivered by unmanned maritime platforms. The CDM program uses an incremental approach to improve capability and to align with delivery platform availability. The first increment replicates the MK 67 SLMM capability. The second increment provides a remote control capability and incorporates the MK 71 TDD used on the QS MOD 3.

## Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

## P-1 Line Item Number / Title:

3231 / Maritime Mines
BSA 2: Mod of Torpedoes and Related Equip

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-5 | 1 / Quickstrike Mine |  |  |  | - 181.070 | - 15.317 | - 18.466 | - 18.779 | - 10.000 | - 18.779 |
| P-5 | 3 / Quickstrike Extended Range |  |  |  | - 10.000 | - 10.515 | - 10.101 | - 10.503 | - 10.000 | - 10.503 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 181.070 | - 15.832 | - 18.567 | - 19.282 | - 10.000 | - 19.282 |

*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 2023 funding request was reduced by $\$ 0.152$ million to account for the availability of prior year execution balances.
 handling gear and interface adapters. This equipment will be required to support testing and will be transitioned to fleet assets upon initial delivery.

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| Exhibit P-5, Cost | Analysis | P 2 | Navy |  |  |  |  |  |  |  |  |  |  | Date: A | April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / B 1507N / 03 / 2 | udget Ac | ivity | udget | Sub Acti |  | $\begin{aligned} & \text { P-1 L } \\ & 3231 \end{aligned}$ | Line Item / Maritim | Numb <br> Mine | / Title: |  |  |  |  | Item N <br> 1 / Quic | Number / T <br> ickstrike M | 「itle [DOL line | DDIC]: |  |
| ID Code (A=Service Read | B=Not Servic | Ready) |  |  |  |  |  |  |  | AP/MAIS | Code: |  |  |  |  |  |  |  |
|  | Resource | Summ |  |  |  | Prior Yea |  | FY |  | FY | 2022 | FY | 2023 Bas |  | FY 2023 O | OCO | FY 2023 | Total |
| Procurement Quantity (Unis | s in Each) |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Co | st (\$ in Million |  |  |  |  |  | 81.070 |  | 5.317 |  |  |  |  | 8.779 |  | 0.000 |  | 8.779 |
| Less PY Advance Procure | ment (\$ in Mill |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Net Procurement (P-1) \$ \$ in | Millions) |  |  |  |  |  | 81.070 |  | 5.317 |  |  |  |  | 8.779 |  | 0.000 |  | 8.779 |
| Plus CY Advance Procure | ment (\$ in Mill |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authorit | (\$ in Millions) |  |  |  |  |  | 81.070 |  | 5.317 |  |  |  |  | 8.779 |  | 0.000 |  | 8.779 |
|  | he following R | esource | mary rows | s are for info | mational | purposes only. | The corres | onding bu | et requests | are docur | ed else | ere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Un | it Cost (\$ in D | Ilars) |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in | in this Exhibit | P-5 may | be exact o | r sum exactly | due to ro | ounding. |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | ior Yea |  |  | Y 2021 |  |  | FY 2022 |  |  | 2023 B |  |  | 2023 O | OCO |  | Y 2023 To |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $(\$ M)$ | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$) | Qty (Each) | Total Cost |
| Hardware Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) TDD MK-71 | - | - | 32.001 | - |  | 1.818 | - | - | 1.699 | - | - | 1.853 | - |  | 0.000 | - | - | 1.853 |
| 1.1.2) MK-65 Mod Kit | - | - | 4.298 | - | - | 0.475 | - | - | 0.485 | - | - | 0.494 | - |  | 0.000 | - | - | 0.494 |
| 1.1.3) MK-62/63 Mod Kit | - | - | 17.898 | - |  | 1.846 | - | - | 1.683 | - |  | 1.703 | - |  | 0.000 | - | - | 1.703 |
| 1.1.4) Support Equipment | - | - | 6.564 | - | - | 0.367 | - | - | 0.374 | - | - | 0.382 | - |  | 0.000 | - | - | 0.382 |
| 1.1.5) Clandestine Delivered Mine (CDM) | - | - | 4.538 | - | - | 0.000 | - | - | 3.150 | - | - | 3.264 | - |  | 0.000 | - | - | 3.264 |
| 1.1.6) Production ECP (HW/SW) | - | - | 1.856 | - | - | 0.088 | - | - | 0.090 | - |  | 0.092 | - |  | 0.000 | - |  | 0.092 |
| Subtotal: Recurring Cost | - | - | 67.155 | - | - | 4.594 | - | - | 7.481 | - | - | 7.788 | - |  | 0.000 | - | - | 7.788 |
| Subtotal: Hardware Cost | - | - | 67.155 | - | - | 4.594 | - | - | 7.481 | $\cdot$ | - | 7.788 | - |  | 0.000 | - | - | 7.788 |
| Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1) Production Engineering | - | - | 12.972 | - | - | 0.601 | - | - | 0.863 | - |  | 0.867 | - |  | 0.000 | - | - | 0.867 |
| 2.2) Integrated Logistics Support | - | - | 0.943 | - | - | 0.122 | - | - | 0.122 | - |  | 0.124 | - |  | 0.000 | - | - | 0.124 |
| Subtotal: Support Cost | - | - | 13.915 | - | - | 0.723 | - | - | 0.985 | - | - | 0.991 | - |  | 0.000 | - | - | 0.991 |
| Gross/Weapon System Cost | - |  | 81.070 | - |  | 5.317 | - |  | 8.466 | - |  | 8.779 | - |  | 0.000 | - |  | 8.779 |

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## Footnotes

 be transitioned to fleet assets upon initial delivery.

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / |
| BSA 3: Support Equipment |

## P-1 Line Item Number / Title:

3301 / Torpedo Support Equipment

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

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

| Resource Summary | Prior Years | FY 2021 | FY 2022 | $\text { FY } 2023$ Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 717.506 | 94.103 | 90.832 | 87.044 | 0.000 | 87.044 | 113.932 | 119.340 | 120.675 | 124.795 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 717.506 | 94.103 | 90.832 | 87.044 | 0.000 | 87.044 | 113.932 | 119.340 | 120.675 | 124.795 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 717.506 | 94.103 | 90.832 | 87.044 | 0.000 | 87.044 | 113.932 | 119.340 | 120.675 | 124.795 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:


 maintaining warshot inventories in an operational ready-for-issue (RFI) status in support of combat ready deployment by ASW forces


 MOD 0/1, and the Vertical Launch Anti-Submarine Rocket (VLA).
[P5 / F8001 - LWT SUPPORT EQUIPMENT]: LIGHTWEIGHT (LWT) Support Equipment procures 4T components to support:
(1) Exercise torpedo builds for Fleet Proficiency Surface Command Course and Tactical Development firings
(2) Warshot torpedo maintenance to sustain the fleet with an inventory of RFI warshot torpedoes as they come due for maintenance
(3) Assembly of new production MK-54 Warshots
(4) Vertical Launch Anti-Submarine Rocket (ASROC) (VLA) Warshot and Exercise missile assemblies
 assemblies, igniters, containers, lanyard start assemblies, electrical initiators, suspension bands, VLA assembly kits, and propeller baffles.
 equipment and to retrofit torpedoes and 4T components to the latest RFI configuration.

 management, training equipment and configuration management.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment /

 BSA 3: Support Equipment

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

[P5 / F8840 - LIGHTWEIGHT QUALITY ASSURANCE]: Provides material costs associated with failure analysis and site investigations for torpedo system component failures, product quality assurance (QA), and critical unique firing tests.
[P5 / F8860 - LIGHTWEIGHT ACCEPTANCE TEST AND EVALUATION]: Provides support for acceptance testing of LWT 4T components.
[P5 / F8900 - LIGHTWEIGHT PRODUCTION ENGINEERING - CONTRACTOR]: Provides for production support services including program planning, funds management, budgeting, and data management.
[P5-2 / F8003 LIGHTWEIGHT RECOVERABLE EXERCISE TORPEDO (REXTORP)]: Provides for the procurement of MK-54 REXTORPs. REXTORPs provide a reusable exercise inert torpedo shape for fixed wing, rotary, and surface launched platforms in support of Fleet ASW training and readiness.
[P5-3 / F8100-HEAVYWEIGHT EXERCISE AND EXPENDABLES AND COMPONENT REPLACEMENT]: Procures 4T components to support: (1) exercise torpedo builds for fleet proficiency in the submarine and surface command course and tactical development firings; (2) warshot torpedo maintenance to sustain the fleet with an inventory of RFI warshot torpedoes as they come due for maintenance; and (3) assembly of modernized MK 48 MOD 7 components back to an All-Up-Round (AUR) configuration, either exercise or warshot. HWT 4T components include the following: wire coils, flex hoses, Otto Fuel, igniters, propellant, A-cables, A-cable inserts, A-cable receptacles, cylinder barrels, exercise fuel tanks, containers, and chamber and valves.
[P5-3 / F8101-HEAVYWEIGHT OTHER EQUIPMENT INVESTMENT]: Procure modernized Automatic Test Equipment (ATE) to perform full-up automatic comprehensive system testing of all Torpedo MK 48 variants in an All-Up-Round (AUR) torpedo configuration. Support numerous additional testing evolutions, including factory acceptance testing, proofing, periodic maintenance, group testing, and weapon turnaround/conversion activities.
[P5-3 / F8843-HEAVYWEIGHT QUALITY ASSURANCE]: Provides material costs associated with failure analysis and site investigations for torpedo system component failures and product QA and critical unique firing tests.
[P5-3 / F8833 - HEAVYWEIGHT PRODUCTION ENGINEERING - IN HOUSE]: Provides for production support services at NUWC Divisions KPT/NPT including program planning, funds management, budgeting, data management, acquisition engineering, software management, ILS, and GFE management, training equipment, and configuration management.
[P5-3 / F8863 - HEAVY WEIGHT ACCEPTANCE TEST AND EVALUATION]: Provides support for acceptance testing of HWT 4T components.
[P5-3 / F8893-HEAVYWEIGHT PRODUCTION ENGINEERING - CONTRACTOR]: Provides for production support services including program planning, funds management, budgeting, and data management.

| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / <br> BSA 3: Support Equipment |  |  |  |  |  | P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1 / Lightweight Torpedo Support Equipment | P-5a, P-21 |  |  | - 1203.551 | - 132.322 | - 132.382 | - 133.293 | - 10.000 | - 133.293 |
| P-5 | $2 /$ Recoverable Exercise Torpedo |  |  |  | - / 12.706 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-5 | 3/Heavyweight Torpedo Support Equipment | P-5a, P-21 |  |  | - / 501.249 | - 161.781 | - 158.450 | - 153.751 | - 10.000 | - 153.751 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1717.506 | - 194.103 | - 190.832 | - 187.044 | - 10.000 | - 187.044 |

*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:

FY23 Program Changes:
The FY 2023 funding request was adjusted by $\$ 2.995 \mathrm{M}$ to account for the availability of prior year execution balances.
F8001: Additional funding for increase quantity of MK 28 Air Stabilizer.
F8100: Funding reduced from FY22 to FY23 due to completion of Replacement Warshot Afterbody procurements in FY22.


## Exhibit P-5, Cost Analysis: PB 2023 Navy <br> Appropriation / Budget Activity / Budget Sub Activity: $1507 \mathrm{~N} / 03$ / 3

 1507N / 03 / 3
## P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment

Date: April 2022

## Item Number / Title [DODIC]:

1 / Lightweight Torpedo Support
Equipment

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


| Cost Elements | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| 1.1.9) F8001 Battery, Scuttle (MK54) (CWRQ) ${ }^{(\dagger)}$ | 211.43 | 1,750 | 0.370 | 218.28 | 400 | 0.087 | 222.65 | 400 | 0.089 | 227.10 | 400 | 0.091 | - | - | 0.000 | 227.10 | 400 | 0.091 |
| 1.1.10) F8001 MK54 Igniter (TH04) ${ }^{(\dagger)}$ | 772.50 | 3,200 | 2.472 | 801.05 | 400 | 0.320 | 817.07 | 400 | 0.327 | 833.41 | 400 | 0.333 | - | - | 0.000 | 833.41 | 400 | 0.333 |
| 1.1.11) F8001 MK54 BSS Bags | 24,125.00 | 16 | 0.386 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.12) MJ21 - Electric Initiator ${ }^{(+)}$ | 1,581.25 | 800 | 1.265 | 1,535.00 | 400 | 0.614 | 1,565.00 | 400 | 0.626 | 1,595.00 | 400 | 0.638 | - | - | 0.000 | 1,595.00 | 400 | 0.638 |
| 1.1.13) F8001 Generator Assembly, Gas (5W20) ${ }^{(\dagger)}$ | 12,346.72 | 1,096 | 13.532 | 11,106.67 | 200 | 2.221 | 11,335.00 | 200 | 2.267 | 11,560.00 | 200 | 2.312 | - | - | 0.000 | 11,560.00 | 200 | 2.312 |
| 1.1.14) F8001 Valve Assembly , Fuel Shutoff (3W41) ${ }^{(+)}$ | - | - | 0.000 | 780.00 | 400 | 0.312 | 795.56 | 400 | 0.318 | 811.11 | 400 | 0.324 | - | - | 0.000 | 811.11 | 400 | 0.324 |
| 1.1.15) F8001 Pressure Cylinder, Warshot (YW09) ${ }^{(\dagger)}$ | - | - | 0.000 | 1,066.67 | 300 | 0.320 | 1,090.00 | 300 | 0.327 | 1,110.00 | 300 | 0.333 | - | - | 0.000 | 1,110.00 | 300 | 0.333 |
| 1.1.16) F8001 Pressure Cylinder, Exercise (TW58) ${ }^{(\dagger)}$ | - | - | 0.000 | 1,179.17 | 240 | 0.283 | 1,200.00 | 240 | 0.288 | 1,225.00 | 240 | 0.294 | - | - | 0.000 | 1,225.00 | 240 | 0.294 |
| 1.1.17) F8001 MK46 Seawater Batteries | 1,162.50 | 400 | 0.465 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.18) F8001 MK31 Stabilizer (QW47) ${ }^{(\dagger)}$ | 1,920.00 | 400 | 0.768 | 1,960.00 | 400 | 0.784 | 1,997.50 | 400 | 0.799 | 2,037.50 | 400 | 0.815 | - | - | 0.000 | 2,037.50 | 400 | 0.815 |
| 1.1.19) F8001 VLA Reassembly Kits ${ }^{(\dagger)}$ | - | - | 0.000 | 2,900.00 | 30 | 0.087 | 2,966.67 | 30 | 0.089 | 3,033.33 | 30 | 0.091 | - | - | 0.000 | 3,033.33 | 30 | 0.091 |
| 1.1.20) F8001 VLA Thermal Battery (CWEC) | - | - | 0.381 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.21) F8001 VLA Impulse Cartridge (MT99) ${ }^{(\dagger)}$ | - | - | 0.000 | 1,000.00 | 50 | 0.050 | 1,020.00 | 50 | 0.051 | 1,040.00 | 50 | 0.052 | - | - | 0.000 | 1,040.00 | 50 | 0.052 |
| 1.1.22) F8001 MK792/0 Universal AUR Container | - | - | 1.781 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.23) F8001 Universal REXTORP Containers | - | - | 3.273 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Lightweight Torpedo Support Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3301 / Torpedo Support Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\underset{(\text { Each })}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 1.1.24) F8001 <br> Sonobuoys ${ }^{(\dagger)}$ | - | - | 0.000 | 2,854.17 | 48 | 0.137 | 2,916.67 | 48 | 0.140 | 2,958.33 | 48 | 0.142 | - | - | 0.000 | 2,958.33 | 48 | 0.142 |
| 1.1.25) F8001 SWT Target Procurement | - | - | 0.630 | - | - | 0.078 | - | - | 0.080 | - | - | 0.082 | - | - | 0.000 | - | - | 0.082 |
| $\begin{aligned} & \text { 1.1.26) F8001 VLA } \\ & {\text { Telemetry } \text { Kits }^{( }{ }^{(t)}}^{\text {and }} \end{aligned}$ | 103,312.50 | 32 | 3.306 | 106,500.00 | 4 | 0.426 | 108,750.00 | 4 | 0.435 | 110,750.00 | 4 | 0.443 | - | - | 0.000 | 110,750.00 | 4 | 0.443 |
| 1.1.27) F8001 Suspension Bands (T107) ${ }^{(\dagger)}$ | 2,365.45 | 2,252 | 5.327 | 2,437.78 | 400 | 0.975 | 2,486.67 | 400 | 0.995 | 2,537.78 | 400 | 1.015 | - | - | 0.000 | 2,537.78 | 400 | 1.015 |
| 1.1.28) F8001 Otto Fuel Reclamation | - | - | 5.179 | - | - | 0.462 | - | - | 0.471 | - | - | 0.480 | - | - | 0.000 | - | - | 0.480 |
| $\begin{aligned} & \text { 1.1.29) F8001 VLA } \\ & \text { Refurbishment } \text { Kits }^{(\dagger)} \end{aligned}$ | 632,714.29 | 77 | 48.719 | 491,818.18 | 22 | 10.820 | 495,545.45 | 22 | 10.902 | 506,636.36 | 22 | 11.146 | - | - | 0.000 | 506,636.36 | 22 | 11.146 |
| 1.1.30) F8001 MK 28 Stabilizer (TA68) ${ }^{(\dagger)}$ | 4,584.19 | 1,075 | 4.928 | 4,813.33 | 300 | 1.444 | 4,910.00 | 319 | 1.566 | 5,007.79 | 385 | 1.928 | - | - | 0.000 | 5,007.79 | 385 | 1.928 |
| Subtotal: Recurring Cost | - | - | 107.578 | - | - | 21.054 | - | - | 21.435 | - | - | 22.217 | - | - | 0.000 | - | - | 22.217 |
| Subtotal: Hardware - <br> F8001-LWT SUPPORT <br> EQUIPMENT Cost | - | - | 107.578 | - | - | 21.054 | - | - | 21.435 | - | - | 22.217 | - | - | 0.000 | - | - | 22.217 |
| Hardware - F8002 LIGHTWEIGHT OTHER EQUIPMENT INVESTMENT Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.1) F8002 <br> Lightweight Other <br> Equipment Investment | - | - | 44.806 | - | - | 6.586 | - | - | 6.171 | - | - | 6.205 | - | - | 0.000 | - | - | 6.205 |
| Subtotal: Recurring Cost | - | - | 44.806 | - | - | 6.586 | - | - | 6.171 | - | - | 6.205 | - | - | 0.000 | - | - | 6.205 |
| Subtotal: Hardware - F8002 LIGHTWEIGHT OTHER EQUIPMENT INVESTMENT Cost | - | - | 44.806 | $\cdots$ | - | 6.586 | - | - | 6.171 | - | - | 6.205 | - | - | 0.000 | - | - | 6.205 |
| Support - F8830 LIGHTWEIGHT PRODUCTION ENGINEERING - IN HOUSE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) F8830 Lightweight Production Engineering (In House) | - - | - | 40.963 | - | - | 4.089 | - | - | 4.171 | - | - | 4.254 | - | - | 0.000 | - | - | 4.254 |
| Subtotal: Support - <br> F8830 LIGHTWEIGHT <br> PRODUCTION <br> ENGINEERING - IN HOUSE Cost | - | - | 40.963 | - | - | 4.089 | - | - | 4.171 | - | - | 4.254 | - | - | 0.000 | - | - | 4.254 |
| Support - F8840-LIGHTWEIGHT QUALITY ASSURANCE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Lightweight Torpedo Support Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  |  |  | P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) |
| 4.1) F8840 Lightweight Quality Assurance | - | - | 0.297 | - | - | 0.000 | - | . | 0.000 | - | - | 0.000 | - |  | 0.000 | - |  | 0.000 |
| Subtotal: Support - F8840 LIGHTWEIGHT QUALITY ASSURANCE Cost | - | - | 0.297 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Support - F8860-LIGHTWEIGHT ACCEPTANCE TEST AND EVALUATION Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.1) F8860 Lightweight Acceptance Test and Evaluation | - | . | 6.118 | . | - | 0.281 | - | - | 0.287 | - | - | 0.292 | - | - | 0.000 | - | - | 0.292 |
| Subtotal: Support - <br> F8860-LIGHTWEIGHT <br> ACCEPTANCE TEST AND <br> EVALUATION Cost | - | - | 6.118 | - | - | 0.281 | - | - | 0.287 | - | - | 0.292 | - | - | 0.000 | - |  | 0.292 |
| Support - F8900-LIGHTWEIGHT PRODUCTION ENGINEERING - CONTRACTOR Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.1) F8900 Lightweight Production Engineering Contractor | - | . | 3.789 | - | - | 0.312 | - | - | 0.318 | - | - | 0.325 | - | - | 0.000 | - | - | 0.325 |
| Subtotal: Support -F8900-LIGHTWEIGHT PRODUCTION ENGINEERING CONTRACTOR Cost | - | - | 3.789 | - | - | 0.312 | - | - | 0.318 | - | - | 0.325 | - | - | 0.000 | - | - | 0.325 |
| Gross/Weapon System Cost | - |  | 203.551 |  |  | 32.322 |  | - | 32.382 | - | - | 33.293 | - | - | 0.000 | - | - | 33.293 |

## Remarks:


 maintenance builds depend on 4T material being readily available.
$(\dagger)$ indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / Lightweight Torpedo Support Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  | P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment |  |  |  |  |  |  |  |  |
| Cost Elements | O c 0 | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty <br> (Each) | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.2) F8001 MK 54 Turnaround Kits (CWQB) |  | 2020 | CMO Industries INC / Buffalo, MN | C/FFP | NAVSUP | May 2020 | Oct 2020 | 400 | 107.50 | Y |  |  |
| 1.1.2) F8001 MK 54 Turnaround Kits (CWQB) |  | 2021 | CMO Industries INC / Buffalo, MN | C/FFP | NAVSUP | Sep 2021 | Feb 2022 | 400 | 108.75 | Y |  |  |
| 1.1.2) F8001 MK 54 Turnaround Kits (CWQB) |  | 2022 | CMO Industries INC / Buffalo, MN | C/FFP | NAVSUP | May 2022 | Oct 2022 | 400 | 110.92 | Y |  |  |
| 1.1.2) F8001 MK 54 Turnaround Kits (CWQB) |  | 2023 | TBD / NAVSUP, GLS | C/FFP | NAVSUP | Apr 2023 | Oct 2023 | 400 | 113.14 | Y |  |  |
| 1.1.3) F8001 MK54 Maintenance Kits (BWLW) |  | 2020 | CMO Industries INC / Buffalo, MN | C/FFP | NAVSUP | May 2020 | Oct 2020 | 200 | 460.00 | Y |  |  |
| 1.1.3) F8001 MK54 Maintenance Kits (BWLW) |  | 2021 | CMO Industries INC / Buffalo, MN | C/FFP | NAVSUP | Sep 2021 | Sep 2021 | 200 | 467.96 | Y |  |  |
| 1.1.3) F8001 MK54 Maintenance Kits (BWLW) |  | 2022 | CMO Industries INC / Buffalo, MN | C/FFP | NAVSUP | Jun 2022 | Jun 2022 | 200 | 477.32 | Y |  |  |
| 1.1.3) F8001 MK54 Maintenance Kits (BWLW) |  | 2023 | CMO Industries INC / Buffalo, MN | C/FFP | NAVSUP | May 2023 | May 2023 | 200 | 486.87 | Y |  |  |
| 1.1.4) F8001 MK54 Pinger Kits (BWLX) |  | 2020 | CMO Industries INC / Buffalo, MN | C/FFP | NAVSUP | May 2020 | Oct 2020 | 400 | 50.00 | Y |  |  |
| 1.1.4) F8001 MK54 Pinger Kits (BWLX) |  | 2021 | CMO Industries INC / Buffalo, MN | C/FFP | NAVSUP | Sep 2021 | Sep 2021 | 400 | 52.21 | Y |  |  |
| 1.1.4) F8001 MK54 Pinger Kits (BWLX) |  | 2022 | CMO Industries INC / Buffalo, MN | C/FFP | NAVSUP | May 2022 | May 2022 | 400 | 53.26 | Y |  |  |
| 1.1.4) F8001 MK54 Pinger Kits (BWLX) |  | 2023 | TBD / TBD | C/FFP | NAVSUP | Apr 2023 | Oct 2023 | 400 | 54.32 | Y |  |  |
| 1.1.5) F8001 MK54 Lanyard Start Assembly (BWJA) | $\checkmark$ | 2020 | EAGLEPICHER TECH / JOPLIN, MO | C/FFP | NAVSUP | Aug 2020 | Feb 2021 | 400 | 0.00 | Y |  |  |
| 1.1.5) F8001 MK54 Lanyard Start Assembly (BWJA) |  | 2021 | EAGLEPICHER TECH / JOPLIN, MO | C/FFP | NAVSUP | Jul 2021 | Jan 2022 | 400 | 1,759.65 | Y |  |  |
| 1.1.5) F8001 MK54 Lanyard Start Assembly (BWJA) |  | 2022 | EAGLEPICHER TECH / JOPLIN, MO | C/FFP | NAVSUP | Nov 2021 | May 2022 | 400 | 1,794.84 | Y |  |  |
| 1.1.5) F8001 MK54 Lanyard Start Assembly (BWJA) |  | 2023 | EAGLEPICHER TECH / JOPLIN, MO | C/FFP | NAVSUP | Apr 2023 | Oct 2023 | 400 | 1,830.74 | Y |  |  |
| 1.1.6) F8001 Propeller Baffles (CWRJ) |  | 2020 | Electro Mechanical Specialists / Norwich, CT | C/FFP | NAVSUP | Aug 2020 | Mar 2021 | 200 | 235.00 | Y |  |  |
| 1.1.6) F8001 Propeller Baffles (CWRJ) |  | 2021 | Electro Mechanical Specialists / Norwich, CT | C/FFP | NAVSUP | Sep 2021 | Apr 2022 | 200 | 241.41 | Y |  |  |
| 1.1.6) F8001 Propeller Baffles (CWRJ) |  | 2022 | Electro Mechanical Specialists / Norwich, CT | C/IDIQ | NAVSUP | Jun 2022 | Jan 2023 | 200 | 246.24 | Y |  |  |

Exhibit P-5a, Procurement History and Planning: PB 2023 Navy

| Appropriation / Budget Activity / Budget Sub Activity: <br> $1507 \mathrm{~N} / 03$ / 3 | P-1 Line Item Number / Title: <br> $3301 /$ Torpedo Support Equipment |
| :--- | :--- |


| Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | O C O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.6) F8001 Propeller Baffles (CWRJ) |  | 2023 | TBD / TBD | C / IDIQ | NAVSUP | Jun 2023 | Dec 2023 | 200 | 251.16 | Y |  |  |
| 1.1.7) F8001 Thermal Battery (5W15) |  | 2020 | ADVANCED THERMAL BATTERIES, INC / COCKEYSVILLE, MD | C / FFP | NAVSUP-WSS | Dec 2019 | May 2020 | 400 | 1,580.00 | Y |  |  |
| 1.1.7) F8001 Thermal Battery (5W15) |  | 2021 | ADVANCED THERMAL BATTERIES / NAVSUP, LOC | C / FFP | NAVSUP | Sep 2021 | Mar 2022 | 400 | 1,611.52 | Y |  |  |
| 1.1.7) F8001 Thermal Battery (5W15) |  | 2022 | ADVANCED THERMAL BATTERIES / NAVSUP, LOC | C/FFP | NAVSUP | Feb 2022 | Aug 2022 | 400 | 1,643.75 | Y |  |  |
| 1.1.7) F8001 Thermal Battery (5W15) |  | 2023 | TBD / TBD | C/FFP | NAVSUP | May 2023 | Oct 2023 | 400 | 1,676.62 | Y |  |  |
| 1.1.8) F8001 Battery, TDS (MK 54) (CWRP) |  | 2020 | Airtronics / Tucson, AZ | C/FFP | NAVSUP | May 2020 | Oct 2020 | 400 | 192.50 | Y |  |  |
| 1.1.8) F8001 Battery, TDS (MK 54) (CWRP) |  | 2021 | Airtronics / Tucson, AZ | C/ FFP | NAVSUP | Jul 2021 | Dec 2021 | 400 | 195.54 | Y |  |  |
| 1.1.8) F8001 Battery, TDS (MK 54) (CWRP) |  | 2022 | Airtronics / Tucson, AZ | C / FFP | NAVSUP | Jan 2022 | Jun 2022 | 400 | 199.45 | Y |  |  |
| 1.1.8) F8001 Battery, TDS (MK 54) (CWRP) |  | 2023 | TBD / TBD | C/FFP | NAVSUP | May 2023 | Nov 2023 | 400 | 203.44 | Y |  |  |
| 1.1.9) F8001 Battery, Scuttle (MK54) (CWRQ) |  | 2020 | Airtronics / Tucson, AZ | C / FFP | NAVSUP | Apr 2020 | Oct 2020 | 400 | 215.00 | Y |  |  |
| 1.1.9) F8001 Battery, Scuttle (MK54) (CWRQ) |  | 2021 | Airtronics / Tucson, AZ | C/ FFP | NAVSUP | Jul 2021 | Jan 2022 | 400 | 218.28 | Y |  |  |
| 1.1.9) F8001 Battery, Scuttle (MK54) (CWRQ) |  | 2022 | Airtronics / Tucson, AZ | C/FFP | NAVSUP | Jan 2022 | Jul 2022 | 400 | 222.65 | Y |  |  |
| 1.1.9) F8001 Battery, Scuttle (MK54) (CWRQ) |  | 2023 | TBD / TBD | C / FFP | NAVSUP | Apr 2023 | Oct 2023 | 400 | 227.10 | Y |  |  |
| 1.1.10) F8001 MK54 Igniter (TH04) |  | 2020 | PACIFIC SCIENTIFIC ENERGETIC MATERIALS / HOLLISTER, CA | C/ FFP | NAVSUP-WSS | Aug 2020 | Feb 2021 | 400 | 785.00 | Y |  |  |
| 1.1.10) F8001 MK54 Igniter (TH04) |  | 2021 | PACIFIC SCIENTIFIC ENERGETIC MATERIALS / HOLLISTER, CA | C/FFP | NAVSUP | Sep 2021 | Mar 2022 | 400 | 801.05 | Y |  |  |
| 1.1.10) F8001 MK54 Igniter (TH04) |  | 2022 | PACIFIC SCIENTIFIC ENERGETIC MATERIALS / HOLLISTER, CA | C/ FFP | NAVSUP | Feb 2022 | Aug 2022 | 400 | 817.07 | Y |  |  |
| 1.1.10) F8001 MK54 Igniter (TH04) |  | 2023 | TBD / TBD | C/FFP | NAVSUP | Jun 2023 | Dec 2023 | 400 | 833.41 | Y |  |  |
| 1.1.12) MJ21-Electric Initiator |  | 2020 | PACIFIC SCIENTIFIC ENERGETIC MATERIALS / HOLLISTER, CA | C/FFP | NAVSUP | Aug 2020 | Feb 2021 | 400 | 1,505.00 | Y |  |  |
| 1.1.12) MJ21-Electric Initiator |  | 2021 | PACIFIC SCIENTIFIC ENERGETIC MATERIALS / HOLLISTER, CA | C/ FFP | NAVSUP | Jul 2021 | Jan 2022 | 400 | 1,535.00 | Y |  |  |
| 1.1.12) MJ21-Electric Initiator |  | 2022 | PACIFIC SCIENTIFIC ENERGETIC MATERIALS / HOLLISTER, CA | C/ FFP | NAVSUP | May 2022 | Nov 2022 | 400 | 1,565.00 | Y |  |  |

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Exhibit P-5a, Procurement History and Planning: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity: $\quad$ P-1 Line Item Number / Title: 1507N / 03 / 3 <br> 3301 / Torpedo Support Equipment

## Date: April 2022

## Item Number / Title [DODIC]:

1 / Lightweight Torpedo Support Equipment

| Cost Elements | O <br> C <br> O | FY | Contractor and Location | $\qquad$ | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1.12) MJ21-Electric Initiator |  | 2023 | TBD / TBD | C / FFP | NAVSUP | May 2023 | Nov 2023 | 400 | 1,595.00 | Y |  |  |
| 1.1.13) F8001 Generator Assembly, Gas (5W20) |  | 2020 | GEN DYNAMICS, RENTON, WA / NUWC, KEYPORT | C/FFP | NAVSUP | May 2020 | Mar 2021 | 200 | 10,890.00 | Y |  |  |
| 1.1.13) F8001 Generator Assembly, Gas (5W20) |  | 2021 | GEN DYNAMICS, RENTON, WA / NUWC, KEYPORT | C/FFP | NAVSUP | Jul 2021 | May 2022 | 200 | 11,106.67 | Y |  |  |
| 1.1.13) F8001 Generator Assembly, Gas (5W20) |  | 2022 | GEN DYNAMICS, RENTON, WA / NUWC, KEYPORT | C/ FFP | NAVSUP | May 2022 | Mar 2023 | 200 | 11,335.00 | Y |  |  |
| 1.1.13) F8001 Generator Assembly, Gas (5W20) |  | 2023 | GEN DYNAMICS, RENTON, WA / NUWC, KEYPORT | C / FFP | NAVSUP | May 2023 | Mar 2024 | 200 | 11,560.00 | Y |  |  |
| 1.1.14) F8001 Valve Assembly , Fuel Shutoff (3W41) |  | 2021 | UNKNOWN / NAVSUP, GLS | C / FFP | NAVSUP | Apr 2022 | Sep 2022 | 400 | 780.00 | Y |  |  |
| 1.1.14) F8001 Valve Assembly , Fuel Shutoff (3W41) |  | 2022 | UNKNOWN / NAVSUP, GLS | C/ FFP | NAVSUP | May 2022 | Oct 2022 | 400 | 795.56 | Y |  |  |
| 1.1.14) F8001 Valve Assembly , Fuel Shutoff (3W41) |  | 2023 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | May 2023 | Oct 2023 | 400 | 811.11 | Y |  |  |
| 1.1.15) F8001 Pressure Cylinder, Warshot (YW09) |  | 2021 | Cartridge Actuated Devices/ NAVSUP, GLS / Fairfield, NJ | C/ FFP | NAVSUP | May 2021 | Nov 2021 | 300 | 1,066.67 | Y |  |  |
| 1.1.15) F8001 Pressure Cylinder, Warshot (YW09) |  | 2022 | Cartridge Actuated Devices/ NAVSUP, GLS / Fairfield, NJ | C / FFP | NAVSUP | May 2022 | Nov 2022 | 300 | 1,090.00 | Y |  |  |
| 1.1.15) F8001 Pressure Cylinder, Warshot (YW09) |  | 2023 | Cartridge Actuated Devices/ NAVSUP, GLS / Fairfield, NJ | C/ FFP | NAVSUP | May 2023 | Nov 2023 | 300 | 1,110.00 | Y |  |  |
| 1.1.16) F8001 Pressure Cylinder, Exercise (TW58) |  | 2021 | Cartridge Actuated Devices -2 / Fairfield, NJ | C/FFP | NAVSUP | Sep 2021 | Feb 2022 | 240 | 1,179.17 | Y |  |  |
| 1.1.16) F8001 Pressure Cylinder, Exercise (TW58) |  | 2022 | Cartridge Actuated Devices -2 I Fairfield, NJ | C/FFP | NAVSUP | Jun 2022 | Nov 2022 | 240 | 1,200.00 | Y |  |  |
| 1.1.16) F8001 Pressure Cylinder, Exercise (TW58) |  | 2023 | Cartridge Actuated Devices - 2 / Fairfield, NJ | C/FFP | NAVSUP | Jun 2023 | Nov 2023 | 240 | 1,225.00 | Y |  |  |
| 1.1.18) F8001 MK31 Stabilizer (QW47) |  | 2020 | UNITED TEREX INC, NOR PA / FAIRVIEW VILLAGE, PA/NUWC, KEYPORT | C / FFP | NAVSUP | Aug 2020 | Feb 2021 | 400 | 1,920.00 | Y |  |  |
| 1.1.18) F8001 MK31 Stabilizer (QW47) |  | 2021 | UNITED TEREX INC, NOR PA / FAIRVIEW VILLAGE, PA/NUWC, KEYPORT | C / FFP | NAVSUP | Apr 2022 | Oct 2022 | 400 | 1,960.00 | Y |  |  |
| 1.1.18) F8001 MK31 Stabilizer (QW47) |  | 2022 | UNITED TEREX INC, NOR PA / FAIRVIEW VILLAGE, PA/NUWC, KEYPORT | C / FFP | NAVSUP | May 2022 | Nov 2022 | 400 | 1,997.50 | Y |  |  |
| 1.1.18) F8001 MK31 Stabilizer (QW47) |  | 2023 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | May 2023 | Nov 2023 | 400 | 2,037.50 | Y |  |  |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  | P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment |  |  |  | Item Number / Title [DODIC]: <br> 1 / Lightweight Torpedo Support Equipment |  |  |  |  |
| Cost Elements | 0 <br> c <br> 0 | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | $\begin{gathered} \hline \text { Date } \\ \text { of First } \\ \text { Delivery } \end{gathered}$ | $\underset{\text { (Each) }}{\text { Qty }}$ | Unit Cost (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.19) F8001 VLA Reassembly Kits |  | 2021 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | May 2022 | Oct 2022 | 30 | 2,900.00 | Y |  |  |
| 1.1.19) F8001 VLA Reassembly Kits |  | 2022 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | Jun 2022 | Nov 2022 | 30 | 2,966.67 | Y |  |  |
| 1.1.19) F8001 VLA Reassembly Kits |  | 2023 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | May 2023 | Oct 2023 | 30 | 3,033.33 | Y |  |  |
| 1.1.21) F8001 VLA Impulse Cartridge (MT99) |  | 2021 | TBD / TBD | C/IDIQ | NAVSUP | Mar 2022 | Sep 2022 | 50 | 1,000.00 | Y |  |  |
| 1.1.21) F8001 VLA Impulse Cartridge (MT99) |  | 2022 | TBD / TBD | C/IDIQ | NAVSUP | May 2022 | Nov 2022 | 50 | 1,020.00 | Y |  |  |
| 1.1.21) F8001 VLA Impulse Cartridge (MT99) |  | 2023 | TBD / TBD | C/IDIQ | NAVSUP | Apr 2023 | Oct 2023 | 50 | 1,040.00 | Y |  |  |
| 1.1.24) F8001 Sonobuoys |  | 2021 | UNDERSEA SENSOR SYSTEMS INC / COLUMBIA CITY, IN | C/FFP | NUWC, KEYPORT | May 2021 | Nov 2021 | 48 | 2,854.17 | Y |  |  |
| 1.1.24) F8001 Sonobuoys |  | 2022 | UNDERSEA SENSOR SYSTEMS INC / COLUMBIA CITY, IN | C/FFP | NUWC, KEYPORT | Apr 2022 | Oct 2022 | 48 | 2,916.67 | Y |  |  |
| 1.1.24) F8001 Sonobuoys |  | 2023 | UNKNOWN / TBD | C/FFP | NUWC, KEYPORT | Apr 2023 | Oct 2023 | 48 | 2,958.33 | Y |  |  |
| 1.1.26) F8001 VLA Telemetry Kits |  | 2021 | VARIOUS / CHINA LAKE | C/FFP | CHINA LAKE | Jun 2021 | Dec 2021 | 4 | 106,500.00 | Y |  |  |
| 1.1.26) F8001 VLA Telemetry Kits |  | 2022 | VARIOUS / CHINA LAKE | C/FFP | CHINA LAKE | Jun 2022 | Dec 2022 | 4 | 108,750.00 | Y |  |  |
| 1.1.26) F8001 VLA Telemetry Kits |  | 2023 | VARIOUS / CHINA LAKE | C/FFP | CHINA LAKE | Jun 2023 | Dec 2023 | 4 | 110,750.00 | Y |  |  |
| $\begin{aligned} & \text { 1.1.27) F8001 Suspension Bands } \\ & \text { (T107) } \end{aligned}$ |  | 2021 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | Apr 2022 | Sep 2022 | 400 | 2,437.78 | Y |  |  |
| $\begin{aligned} & \text { 1.1.27) F8001 Suspension Bands } \\ & \text { (T107) } \end{aligned}$ |  | 2022 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | May 2022 | Oct 2022 | 400 | 2,486.67 | Y |  |  |
| $\begin{aligned} & \text { 1.1.27) F8001 Suspension Bands } \\ & \text { (T107) } \end{aligned}$ |  | 2023 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | May 2023 | Oct 2023 | 400 | 2,537.78 | Y |  |  |
| 1.1.29) F8001 VLA Refurbishment Kits ${ }^{(\dagger)}$ |  | 2019 | LOCKHEED MARTIN / Akron, OH | SS/FFP | NAVSUP | Jul 2020 | Feb 2022 | 22 | 555,227.27 | Y |  |  |
| 1.1.29) F8001 VLA Refurbishment Kits ${ }^{(\dagger)}$ |  | 2021 | LOCKHEED MARTIN / Akron, OH | SS/FFP | NAVSUP | Mar 2021 | Jul 2022 | 22 | 491,818.18 | Y |  |  |
| 1.1.29) F8001 VLA Refurbishment Kits ${ }^{(\dagger)}$ |  | 2022 | LOCKHEED MARTIN / Akron, OH | SS/FFP | NAVSUP | Jun 2022 | Jan 2024 | 22 | 495,545.45 | Y |  |  |
| 1.1.29) F8001 VLA Refurbishment Kits |  | 2023 | LOCKHEED MARTIN / Akron, OH | SS/FFP | NAVSUP | Jun 2023 | Jan 2025 | 22 | 506,636.36 | Y |  |  |
| 1.1.30) F8001 MK 28 Stabilizer (TA68) |  | 2021 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | May 2022 | Nov 2022 | 300 | 4,813.33 | Y |  |  |

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  | P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment |  |  |  | Item Number / Title [DODIC]: <br> 1 / Lightweight Torpedo Support Equipment |  |  |  |  |
| Cost Elements | O <br> c <br> 0 | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | $\begin{gathered} \text { Date } \\ \text { of First } \\ \text { Delivery } \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost <br> (8) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.30) F8001 MK 28 Stabilizer (TA68) |  | 2022 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | Jun 2022 | Dec 2022 | 319 | 4,910.00 | Y |  |  |
| 1.1.30) F8001 MK 28 Stabilizer (TA68) |  | 2023 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | Apr 2023 | Oct 2023 | 385 | 5,007.79 | Y |  |  |

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

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment |  |  |  |  |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 1 / Lightweight Torpedo Support Equipment |  |  |  |  |  |  |  |
| $\begin{gathered} \hline \text { Cost Elements } \\ \text { (Units in Each) } \\ \hline \end{gathered}$ |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \hline \text { B } \\ & \text { A } \\ & \text { L } \\ & A \\ & \text { N } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{aligned} & \text { TRO } \\ & \text { TOT } \\ & \text { OOT } \\ & 2021 \end{aligned}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O | N O v | D E C | J A N | $\begin{aligned} & F \\ & E \\ & E \\ & B \end{aligned}$ | M A R | A <br>  <br> P <br> R | M A Y | J U | J u L | A | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | D E c | J A N | $\underset{\mathrm{E}}{\mathrm{E}}$ | M <br>  <br> R | A P R | M $A$ Y | J u N | J u L | A | $\begin{aligned} & \mathbf{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 1.1.29) F8001 VLA Refurbishment Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 55 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2019 | NavY | 22 | 0 | 22 | - | - | - | - | 11 | - | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | NAVY | 22 | 0 | 22 | - | - | - | - | - | - | - | - | - | 11 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2022 | NAVY | 22 | 0 | 22 |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - |  |  | - | - |  | - | 22 |
|  |  |  |  |  |  | $\stackrel{\circ}{\mathrm{c}}$ | $\stackrel{N}{\mathrm{~N}}$ | D | ${ }_{\text {J }}$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M ${ }_{\text {A }}$ | A | M | J | J | A | S | ${ }_{\mathrm{O}}^{\mathrm{O}}$ | N | D | ${ }_{\text {A }}$ | F | ${ }_{\text {M }}^{\text {M }}$ | A | ${ }_{\text {M }}^{\text {M }}$ | J | J | A | S |  |
|  |  |  |  |  |  | T | v | c | N | B | R | R | Y | N | L | G | P | T | v | c | N | в | A | R | ¢ | N | L | G | ${ }_{\text {P }}$ |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  |  | P-1 Line Item Number / Title: <br> 3301 / Torpedo Support Equipment |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Lightweight Torpedo Support Equipment |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total <br> After Oct 1 |
| 1 | LOCKHEED MARTIN Akron, OH | 11 | 22 | 33 | 0 | 0 | 19 | 19 | 0 | 0 | 16 | 16 |

"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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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  |  |  | P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 2 / Recoverable Exercise Torpedo |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2021 |  | FY 2022 |  | FY 2023 Base |  |  | FY 2023 OCO |  | FY 2023 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  |  |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 12.706 |  | 0.000 |  |  |  |  | 0.000 |  | 0.000 |  | 0.000 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 12.706 |  | 0.000 |  |  |  |  | 0.000 |  | 0.000 |  | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 12.706 |  | 0.000 |  |  |  |  | 0.000 |  | 0.000 |  | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
|  | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Hardware - F8003 LIGHTWEIGHT RECOVERABLE EXERCISE TORPEDO (REXTORP) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) Lightweight REXTORP Bodies Assembly \& Test | 46,794.24 | 243 | 11.371 | - | - | 0.000 | - | - | 0.000 | - |  | 0.000 | - |  | 0.000 | - | - | 0.000 |
| 1.1.2) Lightweight REXTORP Fire Control Modules Assembly \& Test | 4,959.02 | 122 | 0.605 | - | - | 0.000 | - | - | 0.000 | - |  | 0.000 | - |  | 0.000 | - | - | 0.000 |
| 1.1.3) Lightweight REXTORP Containers / Assembly \& Test | 10,428.57 | 70 | 0.730 | - | - | 0.000 | - | - | 0.000 | - |  | 0.000 | - |  | 0.000 | - | - | 0.000 |
| Subtotal: Recurring Cost | - | - | 12.706 | - | - | 0.000 | - | - | 0.000 | - |  | 0.000 | - |  | 0.000 | - | - | 0.000 |
| Subtotal: Hardware F8003 LIGHTWEIGHT RECOVERABLE EXERCISE TORPEDO (REXTORP) Cost | - | - | 12.706 | - | - | 0.000 | - | - | 0.000 | - |  | 0.000 | - |  | 0.000 | - | - | 0.000 |
| Gross/Weapon System Cost | - | - | 12.706 | - | - | 0.000 | - | - | 0.000 | - |  | 0.000 | - |  | 0.000 | - | - | 0.000 |



Exhibit P-5, Cost Analysis: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity:
$1507 \mathrm{~N} / 03$ / 3 1507N / 03/3

## P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment

Date: April 2022
Item Number / Title [DODIC]:
3 / Heavyweight Torpedo Support Equipment

| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : |
| :--- |
| Note: Subtotals or Totals in this Exhibit P -5 may not be exact or sum exactly due to rounding. |


| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { Qach) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| 1.1.9) F8100 Scuttle Valve (SW94) ${ }^{(t)}$ | 912.12 | 330 | 0.301 | 1,083.33 | 36 | 0.039 | 1,111.11 | 36 | 0.040 | 1,138.89 | 36 | 0.041 | - | - | 0.000 | 1,138.89 | 36 | 0.041 |
| 1.1.10) F8100 Sub $\text { Wire Coil (TW92) }{ }^{(\text {(t) }}$ | 6,501.96 | 5,600 | 36.411 | 4,241.33 | 750 | 3.181 | 4,326.45 | 775 | 3.353 | 4,412.50 | 800 | 3.530 | - | - | 0.000 | 4,412.50 | 800 | 3.530 |
| 1.1.11) F8100 Torpedo Wire Coil $(\mathrm{SW} 83)^{(\dagger)}$ | 11,622.90 | 3,100 | 36.031 | 6,570.67 | 750 | 4.928 | 6,703.23 | 775 | 5.195 | 6,836.25 | 800 | 5.469 | - | - | 0.000 | 6,836.25 | 800 | 5.469 |
| 1.1.12) F8100 OTTO <br> Fuel - Moser Plant Warm | - | - | 7.600 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| $\begin{aligned} & \text { 1.1.13) F8100 Otto } \\ & \text { Fuel } \end{aligned}$ | - | - | 53.154 | - | - | 7.308 | - | - | 7.454 | - | - | 7.603 | - | - | 0.000 | - | - | 7.603 |
| 1.1.14) F8100 Crossover Batteries (CWRG) $^{(\dagger)}$ | 3,169.19 | 5,225 | 16.559 | 2,860.00 | 750 | 2.145 | 2,917.42 | 775 | 2.261 | 2,975.00 | 800 | 2.380 | - | - | 0.000 | 2,975.00 | 800 | 2.380 |
| 1.1.15) F8100 <br> Sonobuoys | 2,185.19 | 486 | 1.062 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.16) F8100 A/B Dampening Material | - | - | 1.016 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.17) F8100 SWT Target Procurment | - | - | 0.528 | - | - | 0.066 | - | - | 0.067 | - | - | 0.068 | - | - | 0.000 | - | - | 0.068 |
| $\begin{aligned} & \text { 1.1.18) F8100 } \\ & \text { ORDALTS } \end{aligned}$ | - | - | 4.362 | - | - | 0.447 | - | - | 0.456 | - | - | 0.465 | - | - | 0.000 | - | - | 0.465 |
| 1.1.19) F8100 Deep Proofer Kits 1 | 4,236.84 | 570 | 2.415 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.20) F8100 Deep Proofer Kits 2 | 4,462.22 | 450 | 2.008 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.21) F8100 Short Wire Coils (CWRT) | 3,984.38 | 1,600 | 6.375 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.22) F8100 <br> Replacement Nose Arrays | 229,520.00 | 50 | 11.476 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.23) F8100 WES Expansion Box ${ }^{(\dagger)}$ | - | - | 3.410 | - | - | 0.000 | 15,426.09 | 230 | 3.548 | 15,734.78 | 230 | 3.619 | - | - | 0.000 | 15,734.78 | 230 | 3.619 |
| 1.1.24) F8100 <br> Replacement Warshot Afterbodies ${ }^{\left({ }^{(1)}(1)\right.}$ | - | - | 0.000 | 1,027K | 15 | 15.409 | 1,290K | 5 | 6.449 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Recurring Cost | - | - | 240.179 | - | - | 38.773 | - | - | 34.247 | - | - | 29.539 | - | - | 0.000 | - | - | 29.539 |
| Subtotal: Hardware -F8100-HEAVYWEIGHT | - | - | 240.179 | - | - | 38.773 | - | - | 34.247 | - | - | 29.539 | - | - | 0.000 | - | - | 29.539 |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  |  |  | P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 3 / Heavyweight Torpedo Support Equipment |  |  |  |  |
| ID Code ( $A=$ Service Ready, $\mathrm{B}=$ Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| EXERCISE AND EXPENDABLES AND COMPONENT REPLACEMENT Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware - F8101- HEAVYWEIGHT OTHER EQUIPMENT INVESTMENT Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recuring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.1) Heavyweight Other Equipment Investment | - |  | 170.675 | - | - | 15.043 | - | - | 16.079 | - | - | 15.936 | - | - | 0.000 | - | - | 15.936 |
| Subtotal: Recurring Cost | - | - | 170.675 | - | - | 15.043 | - | - | 16.079 | - | - | 15.936 | - | - | 0.000 | - | - | 15.936 |
| Subtotal: Hardware - F8101 - HEAVYWEIGHT OTHER EQUIPMENT INVESTMENT Cost | - |  | 170.675 | - | - | 15.043 | - |  | 16.079 | - | - | 15.936 | - | - | 0.000 | - | . | 15.936 |
| Support - F8843-HEAVYWEIGHT QUALITY ASSURANCE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) Heavyweight Quality Assurance | - | - | 2.842 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Support - F8843HEAVYWEIGHT QUALITY ASSURANCE Cost | - |  | 2.842 | - | - | 0.000 | - |  | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Support - F8833-HEAVYWEIGHT PRODUCTION ENGINEERING - IN HOUSE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1) Heavyweight Production Engineering (In-House) | - | - | 65.093 | - | - | 6.138 | - | - | 6.260 | - | - | 6.375 | - | - | 0.000 | - | - | 6.375 |
| Subtotal: Support- <br> F8833-HEAYYWEIGHT <br> PRODUCTION <br> ENGINEERING - IN HOUSE <br> Cost | $\cdots$ | - | 65.093 | - | - | 6.138 | - | - | 6.260 | - | - | 6.375 | - | - | 0.000 | - | - | 6.375 |
| Support - F8863-HEAVY WEIGHT ACCEPTANCE TEST AND EVALUATION Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.1) Heavyweight Acceptance Test and Evaulation | - |  | 9.228 | - | - | 0.891 | - |  | 0.909 | - | - | 0.927 | - | - | 0.000 | - | - | 0.927 |
| Subtotal: Support -F8863- HEAVY WEIGHT ACCEPTANCE TEST AND EVALUATION Cost | - |  | 9.228 | - | - | 0.891 | - | - | 0.909 | - | - | 0.927 | - | - | 0.000 | - | - | 0.927 |
| Support - F8893- HEAVYWEIGHT PRODUCTION ENGINEERING - Contractor cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.1) Heavyweight Production Engineering Contractor | - |  | 13.232 | - | - | 0.936 | - | - | 0.955 | - | - | 0.974 | - | - | 0.000 | - | - | 0.974 |

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  |  |  | P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 3 / Heavyweight Torpedo Support Equipment |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $\qquad$ | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br>  <br> (\$M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) |
| Subtotal: Support- FPB93- HEAFYWEIGHT PRODUCTON ENIINEERNG- CONTRACTOR Cost | - | - | 13.232 | - |  | 0.936 | . | . | 0.955 | . | . | 0.974 | - | . | 0.000 | - | . | 0.974 |
| Gross/Weapon System Cost | - | - | 501.249 | - | - | 61.781 | - | - | 58.450 | - | - | 53.751 | - | - | 0.000 | - | - | 53.751 |

## Remarks:

[Hardware] 4T material is consumed by the Fleet and IMAs each year, and must be replaced to maintain required inventory levels (2 year stock level). If funds are marked due to contract award delays, the next years funding is not adequate to replenish material consumed in the year prior, resulting in reduced inventory putting future torpedo builds at risk. All production deliveries, Fleet training, and Warshot maintenance builds depend on 4T material being readily available.
$\left.{ }^{( }+\right)_{\text {indicates }}$ the presence of a P-5a

## Footnotes:

${ }^{(1)}$ F8100: Funding reduced in FY23 due to ending Warshot afterbody procurements

| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 3 / Heavyweight Torpedo Support Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  | P-1 Line Item Numb 3301 / Torpedo Sup | er / Title: <br> port Equipment |  |  |  |  |  |  |  |
| Cost Elements | 0 <br> c <br> 0 | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.2) F8100 MK 62-1 A-Cable (CWFP) |  | 2021 | DCX-CHOL / Chatsworth, CA | C/FFP | NAVSUP | Sep 2021 | Apr 2022 | 250 | 4,108.00 | Y |  |  |
| $\begin{aligned} & \text { 1.1.2) F8100 MK 62-1 A-Cable } \\ & \text { (CWFP) } \end{aligned}$ |  | 2022 | DCX-CHOL / Chatsworth, CA | C/FFP | NAVSUP | Jul 2022 | Feb 2023 | 250 | 4,188.00 | Y |  |  |
| 1.1.2) F8100 MK 62-1 A-Cable (CWFP) |  | 2023 | Unknown / TBD | C/FFP | NAVSUP | Apr 2023 | Nov 2023 | 325 | 4,270.77 | Y |  |  |
| 1.1.3) F8100 MK 62-1 A-Cable Insert (CWLE) |  | 2021 | TE Connectivity Seacon Phoenix Inc / ASHAWAY, RI | C/FFP | NAVSUP | Sep 2021 | Feb 2022 | 250 | 276.00 | Y |  |  |
| 1.1.3) F8100 MK 62-1 A-Cable Insert (CWLE) |  | 2022 | TBD / TBD | C/FFP | NAVSUP | Jul 2022 | Dec 2022 | 250 | 284.00 | Y |  |  |
| 1.1.3) F8100 MK 62-1 A-Cable Insert (CWLE) |  | 2023 | TBD / TBD | C/FFP | NAVSUP | Apr 2023 | Sep 2023 | 325 | 289.23 | Y |  |  |
| 1.1.4) F8100 MK 62-1 A-Cable Receptacle (CWLD) |  | 2021 | TE Connectivity Seacon <br> I ASHAWAY, RI | C/FFP | NAVSUP | Sep 2021 | Feb 2022 | 250 | 2,040.00 | Y |  |  |
| 1.1.4) F8100 MK 62-1 A-Cable Receptacle (CWLD) |  | 2022 | TBD / TBD | C/FFP | NAVSUP | May 2022 | Oct 2022 | 250 | 2,080.00 | Y |  |  |
| 1.1.4) F8100 MK 62-1 A-Cable Receptacle (CWLD) |  | 2023 | TBD / TBD | C/FFP | NAVSUP | Apr 2023 | Sep 2023 | 325 | 2,123.08 | Y |  |  |
| 1.1.5) F8100 Flex Hose (Improved) (CWQC) |  | 2021 | TBD / TBD | C/FFP | NAVSUP | Jul 2022 | Jan 2023 | 475 | 2,616.84 | Y |  |  |
| 1.1.5) F8100 Flex Hose (Improved) (CWQC) |  | 2022 | TBD / TBD | C/FFP | NAVSUP | Aug 2022 | Feb 2023 | 475 | 2,670.00 | Y |  |  |
| 1.1.5) F8100 Flex Hose (Improved) (CWQC) |  | 2023 | TBD / TBD | C/FFP | NAVSUP | Apr 2023 | Oct 2023 | 525 | 2,721.90 | Y |  |  |
| 1.1.6) F8100 Strong Flex Hose (WW97) |  | 2021 | TBD / TBD | C/FFP | NAVSUP | Apr 2022 | Oct 2022 | 250 | 1,580.00 | Y |  |  |
| 1.1.6) F8100 Strong Flex Hose (WW97) |  | 2022 | TBD / TBD | C/FFP | NAVSUP | May 2022 | Nov 2022 | 250 | 1,612.00 | Y |  |  |
| 1.1.6) F8100 Strong Flex Hose (WW97) |  | 2023 | TBD / TBD | C/FFP | NAVSUP | Apr 2023 | Oct 2023 | 325 | 1,646.15 | Y |  |  |
| 1.1.7) F8100 Igniter (TH01) |  | 2021 | Ametek Ameron LLC / Maine | C/FFP | NAVSUP | Sep 2021 | Feb 2022 | 750 | 754.67 | Y |  |  |
| 1.1.7) F8100 Igniter (TH01) |  | 2022 | TBD/TBD | C/FFP | NAVSUP | Jun 2022 | Nov 2022 | 775 | 770.32 | Y |  |  |
| 1.1.7) F8100 Igniter (TH01) |  | 2023 | TBD/TBD | C/FFP | NAVSUP | Jun 2023 | Nov 2023 | 800 | 786.25 | Y |  |  |
| 1.1.8) F8100 Propellant (WW98) |  | 2021 | TBD/TBD | C/FFP | NAVSUP | May 2022 | Nov 2022 | 750 | 1,920.00 | Y |  |  |
| 1.1.8) F8100 Propellant (WW98) |  | 2022 | TBD / TBD | C/FFP | NAVSUP | Jul 2022 | Jan 2023 | 775 | 1,958.71 | Y |  |  |
| 1.1.8) F8100 Propellant (WW98) |  | 2023 | TBD / TBD | C/FFP | NAVSUP | May 2023 | Nov 2023 | 800 | 1,998.75 | Y |  |  |
| 1.1.9) F8100 Scuttle Valve (SW94) |  | 2021 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | Jun 2022 | Nov 2022 | 36 | 1,083.33 | Y |  |  |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 3 / Heavyweight Torpedo Support Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  | P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment |  |  |  |  |  |  |  |  |
| Cost Elements | O c 0 | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | $\begin{gathered} \text { Date } \\ \text { of First } \end{gathered}$ Delivery | Qty <br> (Each) | Unit Cost (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.9) F8100 Scuttle Valve (SW94) |  | 2022 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | Jul 2022 | Dec 2022 | 36 | 1,111.11 | Y |  |  |
| 1.1.9) F8100 Scuttle Valve (SW94) |  | 2023 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | Apr 2023 | Sep 2023 | 36 | 1,138.89 | Y |  |  |
| 1.1.10) F8100 Sub Wire Coil (TW92) |  | 2020 | Entwistle Company / Hudson, MA | C/FFP | NAVSUP | Aug 2020 | Jan 2021 | 700 | 4,158.57 | Y |  |  |
| $\begin{aligned} & \text { 1.1.10) F8100 Sub Wire Coil } \\ & \text { (TW92) } \end{aligned}$ |  | 2021 | Entwistle Company / Hudson, MA | C/FFP | NAVSUP | Jul 2021 | Dec 2021 | 750 | 4,241.33 | Y |  |  |
| $\begin{aligned} & \text { 1.1.10) F8100 Sub Wire Coil } \\ & \text { (TW92) } \end{aligned}$ |  | 2022 | Entwistle Company / Hudson, MA | C/FFP | NAVSUP | Jul 2022 | Dec 2022 | 775 | 4,326.45 | Y |  |  |
| 1.1.10) F8100 Sub Wire Coil (TW92) |  | 2023 | TBD / TBD | C/FFP | NAVSUP | Jun 2023 | Jan 2024 | 800 | 4,412.50 | Y |  |  |
| $\begin{aligned} & \text { 1.1.11) F8100 Torpedo Wire Coil } \\ & \text { (SW83) } \end{aligned}$ |  | 2020 | ENTWISTLE / HUDSON, MA | C/FFP | NAVSUP | Aug 2020 | Jan 2021 | 700 | 6,441.43 | Y |  |  |
| 1.1.11) F8100 Torpedo Wire Coil (SW83) |  | 2021 | ENTWISTLE / HUDSON, MA | C/FFP | NAVSUP | Jul 2021 | Dec 2021 | 750 | 6,570.67 | Y |  |  |
| 1.1.11) F8100 Torpedo Wire Coil (SW83) |  | 2022 | TBD / TBD | C/FFP | NAVSUP | Jun 2022 | Dec 2022 | 775 | 6,703.23 | Y |  |  |
| 1.1.11) F8100 Torpedo Wire Coil (SW83) |  | 2023 | TBD / TBD | C/FFP | NAVSUP | Jun 2023 | Dec 2023 | 800 | 6,836.25 | Y |  |  |
| 1.1.14) F8100 Crossover Batteries (CWRG) |  | 2020 | EAGLEPICHER TECH / JOPLIN, MO | C/FFP | NAVSUP | Aug 2020 | Jan 2021 | 700 | 2,802.86 | Y |  |  |
| 1.1.14) F8100 Crossover Batteries (CWRG) |  | 2021 | EAGLEPICHER TECH / JOPLIN, MO | C/FFP | NAVSUP | Sep 2021 | Feb 2022 | 750 | 2,860.00 | Y |  |  |
| 1.1.14) F8100 Crossover Batteries (CWRG) |  | 2022 | EAGLEPICHER TECH / JOPLIN, MO | C/FFP | NAVSUP | Jun 2022 | Nov 2022 | 775 | 2,917.42 | Y |  |  |
| 1.1.14) F8100 Crossover Batteries (CWRG) |  | 2023 | UNKNOWN / NAVSUP, GLS | C/FFP | NAVSUP | Apr 2023 | Sep 2023 | 800 | 2,975.00 | Y |  |  |
| 1.1.23) F8100 WES Expansion Box |  | 2022 | Locheed Martin Sippican Inc / Marion, MA | C/FFP | NAVSEA | Jun 2022 | Jun 2023 | 230 | 15,426.09 | Y |  |  |
| 1.1.23) F8100 WES Expansion Box |  | 2023 | Locheed Martin Sippican Inc / Marion, MA | C/FFP | NAVSEA | Jun 2023 | Jun 2024 | 230 | 15,734.78 | Y |  |  |
| 1.1.24) F8100 Replacement Warshot Afterbodies ${ }^{(\dagger)}$ |  | 2021 | SAIC / Bedford, IN | C/FFP | NAVSEA | Sep 2021 | Sep 2024 | 15 | 1,027K | Y |  |  |
| 1.1.24) F8100 Replacement Warshot Afterbodies ${ }{ }^{\dagger}$ ) |  | 2022 | SAIC / Bedford, IN | C/FFP | NAVSEA | Jul 2022 | Jul 2025 | 5 | 1,290K | Y |  |  |

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

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 3 / Heavyweight Torpedo Support Equipment |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 3301 / Torpedo Support Equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |
| 0  <br>  F <br> C R <br> O $\#$ | FY | SERVICE | PROC QTY | $\begin{gathered} \text { PRIO } \\ \text { TO } \\ \text { OCT } \\ 2021 \end{gathered}$ | $\begin{array}{\|c\|} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{array}$ | O c T | N O v | D E c | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A <br> P <br> R | M A Y | J N | J u L | A U G | S E P | 0 c T | N | D E C | J A N | F E B | M <br>  <br> R | A <br> $\mathbf{P}$ <br> $\mathbf{R}$ | M A Y | J u N | u | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 1.1.24) F8100 Replacement Warshot Afterbodies ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2021 | NAVY | 15 | 0 | 15 | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - |  | - | - | 15 |
| 1 | 2022 | NavY | 5 | 0 | 5 |  |  |  |  |  |  |  |  |  | A - |  | - | - | - | - | - |  | - |  |  | - |  |  | - | 5 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | F E B | M A R | A <br>  <br> P <br> R | M A Y | J | J u L | A U G | S E P | 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 U G | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 3 |  |  |  |  | P-1 Line Item Number / Title: <br> 3301 / Torpedo Support Equipment |  |  |  |  | Item Number / Title [DODIC]: 3 / Heavyweight Torpedo Support Equipment |  |  |
| $\begin{array}{\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | SAIC - Bedford, IN |  |  | 100 | 0 | 0 | 36 | 36 |  | 0 | 17 | 17 |

"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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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment /
BSA 3: Support Equipment

## P-1 Line Item Number / Title:

3302 / ASW Range Support BSA 3: Support Equipment

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

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 63.499 | 4.159 | 3.997 | 3.965 | 0.000 | 3.965 | 4.024 | 4.074 | 4.157 | 4.239 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 63.499 | 4.159 | 3.997 | 3.965 | 0.000 | 3.965 | 4.024 | 4.074 | 4.157 | 4.239 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 63.499 | 4.159 | 3.997 | 3.965 | 0.000 | 3.965 | 4.024 | 4.074 | 4.157 | 4.239 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

 equipment is used for ground truth tracking of participants during Fleet training exercises and torpedo firings and directly supports reconstruction and analysis for Undersea Warfare (USW) proficiency assessment and test, evaluation \& analysis. The infrastructure supported includes: Southern California Offshore Range (SCORE), Barking Sands Tactical Underwater Range/Barking Sands Underwater Range Extension (BARSTUR/BSURE), Pacific Northwest Range Complex (Dabob and Nanoose), Atlantic Undersea Test and Evaluation Center (AUTEC), Portable Offshore Training Range (POTR), Portable Undersea Training Range (PUTR) and other portable capabilities abroad in support of Forward Deployed Naval Forces (FDNF) training requirements.

The Underwater Tracking Range Equipment (UTRE) Program provides pinger systems for tracking on the Navy's Undersea Fleet Training and Test \& Evaluation Ranges. The program provides equipment installation, and upgrading and modernization of UTRE systems for fleet exercises at the Atlantic Undersea Test \& Evaluation Center (AUTEC), Southern California Offshore Range Extension (SCORE) and Barking Sands Tactical Underwater Range (BARSTUR) training ranges. In addition, this budget is for production engineering and product improvement efforts for the tracking instrumentation the Navy's underwater readiness training. The MK28 Service Weapon Target Test (SWTT) provides the Navy the capability to test the explosive train of torpedoes and the reliability of the torpedo warhead. The funding is for equipment, installation, and upgrading and modernization of MK28 systems. This funding is associated with Replenishment Spares JCRF4 ASW Range Support (J3302) for the UTRE and MK28 Programs.
[P5 /]: The Underwater Tracking Range Equipment (UTRE) Program provides pinger systems for tracking on the Navy's Undersea Fleet Training and Test \& Evaluation Ranges. The program provides equipment, installation, and upgrading and modernization of UTRE systems for fleet exercises at the Atlantic Undersea Test \& Evaluation Center (AUTEC), Southern California Offshore Range Extension (SCORE) and Barking Sands Tactical Underwater Range (BARSTUR) training ranges. In addition, this budget is for production engineering and product improvement efforts for the tracking instrumentation the Navy's underwater readiness training. The MK28 Service Weapon Target Test (SWTT) provides the Navy the capability to test the explosive train of torpedoes and the reliability of the torpedo warhead. The funding is for equipment, installation, and upgrading and modernization of MK28 systems. This funding is associated with Replenishment Spares JCRF4 ASW Range Support (J3302) for the UTRE and MK28 Programs.
[P5 / F4001 - UTRE/PINGER EXERCISE EQUIPMENT]: Underwater tracking equipment is placed in weapons and other underwater vehicles for tracking during training and Test and Evaluation (T\&E) exercises, and to ensure safe operation and movement of all craft and weapons on fixed and portable ranges for the Underwater Tracking Range Equipment (UTRE)/Pinger program. Funding is used to procure equipment for T\&E exercises in addition to improvement and modernization projects.

## Appropriation / Budget Activity / Budget Sub Activity: $\quad$ P-1 Line Item Number / Title: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / <br> 3302 I ASW Range Support

BSA 3: Support Equipment
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A

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


 addition to improvement and modernization projects.
[P5 / Support]: Funding for production engineering and product improvement.
[P5 / F4830-PRODUCTION ENGINEERING - UTRE]: Funds for production engineering efforts performed by a field activity or contractor during the production phase of these projects.
[P5 / F4850 - PRODUCT IMPROVEMENT - UTRE]: Product improvement for fixed and portable range and fleet equipment.

| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / BSA 3: Support Equipment |  |  |  |  |  | P-1 Line Item Number / Title: 3302 I ASW Range Support |  |  |  |  |
|  | ( $\mathrm{A}=$ Service Ready, $\mathrm{B}=$ Not Service Ready): A | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | 1/ ASW Range Support [F4001] |  |  |  | - 163.499 | - 14.159 | - 13.997 | - 13.965 | - 10.000 | - 13.965 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 163.499 | - 14.159 | - 13.997 | - 13.965 | - 10.000 | - 13.965 |

## *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:
 Weapon Target Test.

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| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / <br> BSA 4: Destination Transportation |  |  |  |  |  | P-1 Line Item Number / Title: 2410 / First Destination Transportation |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Re |  |  | 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 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Milions) | 37.325 | 4.416 | 4.023 | 5.315 | 0.000 | 5.315 | 5.384 | 5.222 | 5.360 | 5.410 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 37.325 | 4.416 | 4.023 | 5.315 | 0.000 | 5.315 | 5.384 | 5.222 | 5.360 | 5.410 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 37.325 | 4.416 | 4.023 | 5.315 | 0.000 | 5.315 | 5.384 | 5.222 | 5.360 | 5.410 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

First Destination Transportation (FDT) delivers material from a procurement source to the first point of use or storage which may be in the Continental United States or overseas. The procurement source may be a supplier outside of the Department of Defense (DoD) supply system or a DoD activity which fabricates new material. FDT also includes transportation from point of origin to point of use or storage when Navyowned material or equipment is provided to a contractor incident to a Research and Development project or a system/equipment acquisition or modification.

| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 03: Torpedoes and Related Equipment / BSA 4: Destination Transportation |  |  |  |  |  | P-1 Line Item Number / Title: <br> 2410 / First Destination Transportation |  |  |  |  |
| ID Cod | ( $\mathrm{A}=$ Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | $1 /$ FIRST DESTINATION TRANSPORTATION (FDT) |  |  |  | - /37.325 | - 14.416 | - 14.023 | - 15.315 | - 10.000 | - 15.315 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 137.325 | - 14.416 | - 14.023 | - 15.315 | - 10.000 | - 15.315 |

*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:


 associated with the trucking industry as well as a shortage of truck operators.

## Exhibit P-5, Cost Analysis: PB 2023 Navy <br> Appropriation / Budget Activity / Budget Sub Activity: 1507N / 03 / 4

## P-1 Line Item Number / Title: 2410 / First Destination Transportation

Date: April 2022

## Item Number / Title [DODIC]:

1 / FIRST DESTINATION
TRANSPORTATION (FDT)

| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2021 |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  | FY 2023 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | - |  |  | - |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 37.325 |  | 4.416 |  |  | 4.023 |  |  | . 315 |  | 0.000 |  | 5.315 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 37.325 |  | 4.416 |  |  | 4.023 |  |  | . 315 |  | 0.000 |  | 5.315 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 37.325 |  | 4.416 |  |  | 4.023 |  |  | . 315 |  | 0.000 |  | 5.315 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  | - |  |  | - |  | - |  | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) |  |  |  |  |  |  | - |  | - |  |  | - |  |  | - |  | - |  | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | - |  |  | Y 202 |  |  | Y 2022 |  |  | 2023 B | Base |  |  | 2023 O | OCO |  | Y 2023 T |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ |  | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |


| Support Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1) First Destination Transportation-NAVSUP | - | - | 11.034 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.2) First Destination Transportation - NAVAIR (1) | - | - | 12.041 | - | - | 1.750 | - | - | 1.497 | - | - | 2.040 | - | - | - | - | - | 2.040 |
| 1.3) First Destination Transportation - NAVSEA | - | - | 6.264 | - | - | 0.952 | - | - | 0.959 | - | - | 1.016 | - | - | - | - | - | 1.016 |
| 1.4) First Destination Transportation-SSP ${ }^{(2)}$ | - | - | 7.986 | - | - | 1.714 | - | - | 1.567 | - | - | 2.259 | - | - | - | - | - | 2.259 |
| Subtotal: Support Cost | - | - | 37.325 | - | - | 4.416 | - | - | 4.023 | - | - | 5.315 | - | - | - | - | - | 5.315 |
| Gross/Weapon System Cost | - | - | 37.325 | - | - | 4.416 | - | - | 4.023 | - | - | 5.315 | - | - | 0.000 | - | - | 5.315 |

## Footnotes:

${ }^{(1)}$ FY23 increases slightly above inflation. Rising freight costs have been a problem since 2020. Trucking companies began offering huge wage increases to attract drivers to the industry. The lack of drivers has since been complicated by a semi-conductor shortage keeping new trucks from coming on the market, which has raised maintenance costs for existing fleets. The domino effect of the lack of drivers, along with the semi-conductor shortages and newer trucks on the road, has required prudent planning and budgeting for higher shipping costs in the coming years. This has resulted in higher than typical inflation costs for shipping.
${ }^{(2)}$ FY22 to FY23 increases \$692K. SSP's First Destination Transportation budget increases from FY22 to FY23 due to increased transportation costs associated with the trucking industry as well as a shortage of truck operators. In addition to trucking transportation rates, rail transportation rates for first and second stage rocket motors have increased. This increase funds the shipments based on known quantities of planned Guidance Systems and First and Second Stage Rocket Motors movements as well as items on the ordnance exception list where it is a requirement to use a Transportation Account Code.

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## Description:

FY 2023 funding includes $\$ 13.859 \mathrm{M}$ for Base Budget Requirements in support of the National Defense Strategy.
This line item provides for initial procurement of weapons as well as the modernization, standardization, and stock replenishment of service-common Small Arms weapons (caliber . 50 and below) including required gun mounts, optics, visual augmentation systems, and associated equipment to support Navy-wide training and combat missions worldwide.

This line item meets service-common Small Arms inventory objectives for US Navy forces including the Naval Special Warfare, Naval Expeditionary Combat Command, Naval Construction Units, Marine Corps Security Force Battalion and Master at Arms.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 1: Guns and
Gun Mounts

## P-1 Line Item Number / Title:

4129 / Small Arms and Weapons

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1/EXPEDITIONARY WARFARE | P-5a |  |  | - /61.317 | - $/ 6.701$ | - 19.378 | - 18.061 | - 10.000 | - 18.061 |
| P-5 | $2 /$ SURFACE WARFARE | P-5a |  |  | - 165.049 | - 15.829 | - 13.083 | - 15.798 | - 10.000 | - 15.798 |
| P-5 | 3/ STRATEGIC SYSTEMS PROGRAMS (SSP) | P-5a |  |  | - 19.307 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /135.673 | - /12.530 | - / 12.461 | - /13.859 | - 10.000 | - 113.859 |

*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:


 launchers, gun mounts, optics, visual augmentation systems and associated equipment.
 elements.

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 1

## P-1 Line Item Number / Title: 4129 / Small Arms and Weapons

## Date: April 2022

## Item Number / Title [DODIC]:

1 / EXPEDITIONARY WARFARE

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

| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 61.317 | 6.701 | 9.378 | 8.061 | 0.000 | 8.061 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 61.317 | 6.701 | 9.378 | 8.061 | 0.000 | 8.061 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 61.317 | 6.701 | 9.378 | 8.061 | 0.000 | 8.061 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - |

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

|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | Qty <br> (Each) | Total Cost <br> (\$ M) |

Hardware - EXPEDITIONARY WARFARE Cost

| Recurring Cost |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1.1) SSAM/MK50 ${ }^{(\dagger)}$ | 555,333.33 | 9 | 4.998 | - | - | 0.000 | - | - |
| 1.1.2) MK48 ${ }^{(\dagger)}$ | 8,729.41 | 85 | 0.742 | - | - | 0.000 | - | - |
| 1.1.3) MK48 $\text { REFURB }{ }^{(\dagger)}$ | 5,942.86 | 35 | 0.208 | - | - | 0.000 | - | - |
| 1.1.4) M107 .50 CAL SNIPER RIFLE ${ }^{(+)}$ | 12,500.00 | 2 | 0.025 | - | - | 0.000 | - | - |
| $\begin{aligned} & \text { 1.1.6) M11 9MM } \\ & \text { PISTOL }^{(+)} \end{aligned}$ | 700.00 | 40 | 0.028 | - | - | 0.000 | - | - |
| $\begin{aligned} & \text { 1.1.7) M9 9MM } \\ & \text { PISTOL }^{(\dagger)} \end{aligned}$ | 6,855.63 | 284 | 1.947 | - | - | 0.000 | - | - |
| 1.1.8) MK44 7.62MM MINIGUN ${ }^{(+)}$ | 1,218K | 2 | 2.436 | - | - | 0.000 | 73,800.00 | 6 |
| 1.1.9) MK44 REFURB ${ }^{(\dagger)}$ | 40,666.67 | 3 | 0.122 | - | - | 0.000 | - | - |
| 1.1.10) EXPEDITIONARY MOUNTS ${ }^{(t)}$ | 2,750.00 | 40 | 0.110 | - | - | 0.000 | - | - |
| $\text { 1.1.11) MK-19 MOD } 3$ $40 \mathrm{Mm} \mathrm{GMG}^{(\dagger)}$ | 17,222.22 | 9 | 0.155 | - | - | 0.000 | - | - |
| 1.1.12) M4A1 5.56 MM CARBINE ${ }^{(\dagger)}$ | 6,435.06 | 1,586 | 10.206 | - | - | 0.000 | - | - |


| 0.000 | - | - |
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| 0.000 | - | - |
| 0.000 | - | - |
| 0.000 | - | - |
| 0.000 | - | - |
| 0.000 | - | - |
| 0.443 | - | - |
| 0.000 | - | - |
| 0.000 | - | - |
| 0.000 | - | - |
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| 0.000 | - | - | 0.000 |
| 0.000 | - | - | 0.000 |

UNCLASSIFIED
Page 3 of 13

Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity

 1507N / 04 / 1
## P-1 Line Item Number / Title: 4129 / Small Arms and Weapons

Date: April 2022
Item Number / Title [DODIC]:
1 / EXPEDITIONARY WARFARE

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

|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| $\begin{aligned} & \text { 1.1.13) } \mathrm{M} 240 \mathrm{~B}^{\text {7.62 } \left.\mathrm{MMG}^{( }\right)} \end{aligned}$ | 60,984.62 | 130 | 7.928 | - | - | 0.000 | 9,000.00 | 50 | 0.450 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.14) ${\mathrm{M} 2 \mathrm{~A} 1{ }^{(+)}}^{\text {( }}$ | 14,418.88 | 339 | 4.888 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| $\begin{aligned} & \text { 1.1.15) M2A1 } \\ & \text { COMPONENTS } \end{aligned}$ | - | - | 7.277 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.16) M18 SERVICE PISTOL ${ }^{(+)}$ | 200.00 | 4,100 | 0.820 | 200.00 | 3,000 | 0.600 | 200.00 | 4,248 | 0.850 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.17) M224 60MM MORTAR ${ }^{(\dagger)}$ | 76,458.33 | 48 | 3.670 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.18) M252 81MM MORTAR ${ }^{(\dagger)}$ | 50,454.55 | 55 | 2.775 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.20) M3E1 Carl Gustaf ${ }^{(t)}$ | 64,741.94 | 124 | 8.028 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.21) M3E1 20 mm sub caliber adapter ${ }^{(\dagger)}$ | 6,811.11 | 90 | 0.613 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.22) ASR/ MRAD 300 PRC/ Mk22 ${ }^{(\dagger)}$ | 12,000.00 | 90 | 1.080 | - | - | 0.000 | 12,000.00 | 81 | 0.972 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.23) URG 14.5 | - | - | 0.163 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.25) CROWS II ${ }^{(\dagger)}$ (1) | - | - | 0.000 | 340,000.00 | 9 | 3.060 | 272,222.00 | 20 | 5.444 | 350,000.00 | 14 | 4.900 | - | - | 0.000 | 350,000.00 | 14 | 4.900 |
| $\begin{aligned} & \text { 1.1.26) FCS13RE } \\ & \text { (MAAWS) }^{(\dagger)} \end{aligned}$ | - | - | 0.000 | - | - | 0.000 | 28,000.00 | 31 | 0.868 | 28,000.00 | 13 | 0.364 | - | - | 0.000 | 28,000.00 | 13 | 0.364 |
| 1.1.27) MORTAR, 60MM, M8A1, <br> BASEPLATE ${ }^{(\dagger)}$ | - | - | 0.000 | - | - | 0.000 | 6,567.00 | 35 | 0.230 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| $\begin{aligned} & \text { 1.1.28) SU-289/ } \\ & \text { VCOG/SCO }{ }^{(\dagger)} \end{aligned}$ | - | - | 0.000 | 1,450.00 | 534 | 0.774 | - | - | 0.000 | 1,500.00 | 665 | 0.998 | - | - | 0.000 | 1,500.00 | 665 | 0.998 |
| 1.1.29) CREW SERVED WEAPON OPTIC/ MMO ${ }^{(t)}$ | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | 3,100.00 | 563 | 1.745 | - | - | 0.000 | 3,100.00 | 563 | 1.745 |
| $\begin{aligned} & \text { 1.1.30) SU-251 } \\ & \text { NVGs }^{(\dagger)} \end{aligned}$ | - | - | 0.000 | 25,000.00 | 16 | 0.400 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.31) SU-255 Small Arms Optics ${ }^{(\dagger)}$ | - | - | 0.000 | 30,000.00 | 29 | 0.870 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Recurring Cost | - | - | 58.219 |  | - | 5.704 | - | - | 9.257 | - | - | 8.007 | - | - | 0.000 | - |  | 8.007 |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: 4129 / Small Arms and Weapons |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / EXPEDITIONARY WARFARE |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $\qquad$ | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Subtotal: Hardware - EXPEDITIONARY WARFARE Cost | - | - | 58.219 | - | - | 5.704 | - | - | 9.257 | - | - | 8.007 | - | . | 0.000 | - | . | 8.007 |
| Hardware - TRANSPORTATION ACCOUNT CODE (TAC) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.1) SMALL ARMS TAC | - | - | 0.404 | - | - | 0.050 | - | - | 0.050 | - | - | 0.052 | - | - | 0.000 | - | - | 0.052 |
| Subtotal: Recurring Cost | - | - | 0.404 | - | - | 0.050 | - | - | 0.050 | - | - | 0.052 | - | - | 0.000 | - | - | 0.052 |
| Subtotal: Hardware TRANSPORTATION ACCOUNT CODE (TAC) Cost | - | - | 0.404 | - | - | 0.050 | - | - | 0.050 | - | - | 0.052 | - | - | 0.000 | - | - | 0.052 |
| Hardware - ENACTED RESCISSION Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1.1) ENACTED RESCISSION ${ }^{(2)}$ | - | - | 0.000 | - | - | 0.931 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Recurring Cost | - | - | 0.000 | - | - | 0.931 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Hardware ENACTED RESCISSION Cost | - | - | 0.000 | - | - | 0.931 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Support - EXPEDITIONARY WARFARE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1) Production Engineering | - | - | 1.056 | - | - | 0.016 | - | - | 0.071 | - | - | 0.002 | - | - | 0.000 | - | - | 0.002 |
| 4.2) $14.5 \mathrm{URG} \mathrm{KIT}^{(+)}$ | 780.00 | 2,100 | 1.638 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Support EXPEDITIONARY WARFARE Cost | - | - | 2.694 | - | - | 0.016 | - | - | 0.071 | - | - | 0.002 | - | - | 0.000 | - | - | 0.002 |
| Gross/Weapon System Cost | - | - | 61.317 | - | - | 6.701 | - | - | 9.378 | - | - | 8.061 | - | - | 0.000 | - | - | 8.061 |

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

## Footnotes:

 systems total. New spread is reflected in the exhibit.
 elements.

\section*{Exhibit P-5a, Procurement History and Planning: PB 2023 Navy <br> | Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $1507 \mathrm{~N} / 04 / 1$ |
| :--- | :--- |
| 4129 / Small Arms and Weapons |  | 1507N / 04 / 1 <br> P-1 Line Item Number / Title: <br> Small Arms and Weapons}

Date: April 2022

|  | O |
| :---: | :---: |
| Cost Elements | C |
| 1.1.1) SSAM/MK50 |  |

1.1.1) SSAM/MK50
1.1.2) MK48

| 1.1.2) MK48 |
| :--- |
| 1.1.3) MK48 REFURB |

RIFLE
1.1.6) M11 9MM PISTOL 1.1.7) M9 9MM PISTOL 1.1.8) MK44 7.62MM MINIGUN 1.1.9) MK44 REFURB 1.1.10) EXPEDITIONARY MOUNTS
1.1.11) MK-19 MOD 3 40MM GMG
1.1.12) M4A1 5.56 MM CARBINE
1.1.12) M4A1 5.56MM CARBINE
1.1.12) M4A1 5.56MM CARBINE
1.1.12) M4A1 5.56MM CARBINE
1.1.13) M240B 7.62MM MG
1.1.13) M240B 7.62MM MG
1.1.14) M2A1
1.1.14) M2A1

| 1.1.14) M2A1 |  |
| :---: | :---: |

1.1.16) M18 SERVICE PISTOL
1.1.16) M18 SERVICE PISTOL
1.1.16) M18 SERVICE PISTOL
1.1.17) M224 60MM MORTAR
1.1.17) M224 60MM MORTAR
1.1.17) M224 60MM MORTAR
1.1.18) M252 81MM MORTAR
1.1.18) M252 81MM MORTAR
1.1.20) M3E1 Carl Gustaf
1.1.20) M3E1 Carl Gustaf

UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$1507 \mathrm{~N} / 04 / 1$ |  |  |  | P-1 Line Item Number / Title: 4129 / Small Arms and Weapons |  |  |  | Item Number / Title [DODIC]: 1 / EXPEDITIONARY WARFARE |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost <br> (s) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.21) M3E1 20 mm sub caliber adapter |  | 2020 | Saab Bofors Dynamics / Sweden | C/FFP | PICATINNY | Mar 2020 | Sep 2021 | 90 | 6,813.00 | N | Jan 2022 |  |
| 1.1.22) ASR/MRAD 300 PRC/ Mk22 |  | 2020 | Barrett Manufacturing / Murfreesboro, TN | C/FFP | PICATINNY | May 2020 | Nov 2021 | 90 | 12,000.00 | N |  |  |
| 1.1.22) ASR/MRAD 300 PRC/ Mk22 |  | 2022 | Barrett Manufacturing / Murfreesboro, TN | C/TBD | ** NO PCO ** | Oct 2021 | Apr 2023 | 81 | 12,000.00 | N |  |  |
| 1.1.25) CROWS II |  | 2021 | KONGSBERG / Jonhstown, PA | C/FFP | PICATINNY NJ | Oct 2020 | Apr 2022 | 9 | 340,000.00 | N |  |  |
| 1.1.25) CROWS II |  | 2022 | KONGSBERG / Jonhstown, PA | C/FFP | PICATINNY NJ | Apr 2022 | Oct 2023 | 20 | 272,222.00 | N |  |  |
| 1.1.25) CROWS II |  | 2023 | KONGSBERG / Jonhstown, PA | C/FFP | PICATINNY NJ | Apr 2023 | Oct 2024 | 14 | 350,000.00 | N |  |  |
| 1.1.26) FCS13RE (MAAWS) |  | 2022 | AIMPOINT AB / Malmo, Sweden | MIPR | DLA, Philadelphia, PA | Jun 2022 | Jun 2022 | 31 | 28,000.00 | Y |  |  |
| 1.1.26) FCS13RE (MAAWS) |  | 2023 | AIMPOINT AB / Malmo, Sweden | MIPR | DLA, Philadelphia, PA | Apr 2023 | Apr 2023 | 13 | 28,000.00 | Y |  |  |
| 1.1.27) MORTAR, 60MM, M8A1, BASEPLATE |  | 2022 | GENERAL DYNAMICS I GARLAND, TX | MIPR | DLA | Jul 2022 | Jul 2022 | 35 | 6,567.00 | Y |  |  |
| 1.1.28) SU-289/VCOG/SCO |  | 2021 | TRIJICON / Wixom, MI | MIPR | Quantico, VA | Jan 2021 | Jul 2022 | 534 | 1,450.00 | N |  |  |
| 1.1.28) SU-289/VCOG/SCO |  | 2023 | TRIJICON / Wixom, MI | MIPR | Quantico, VA | Jan 2023 | Jul 2024 | 665 | 1,500.00 | N |  |  |
| 1.1.29) CREW SERVED WEAPON OPTIC/ MMO |  | 2023 | TRIJICON / Wixom, MI | C/IDIQ | PICATINNY, NJ | Jan 2023 | Jul 2023 | 563 | 3,100.00 | N |  |  |
| 1.1.30) SU-251 NVGs |  | 2021 | ELBIT SYSTEMS OF AMERICA/ROANOKE, VA | C/FFP | Roanoke, VA | Jul 2021 | Jul 2021 | 16 | 25,000.00 | Y |  |  |
| 1.1.31) SU-255 Small Arms Optics |  | 2021 | FLIR SYSTEMS INC / FREEPORT, PA | C/FFP | MECHANICSBURG, PA | Aug 2021 | Aug 2021 | 29 | 30,000.00 | Y |  |  |
| 4.2) 14.5 URG KIT |  | 2020 | DANIEL DEFENSE / Black Creek, GA | C/FFP | PICATINNY | Jan 2020 | Jul 2021 | 2,100 | 780.00 | N |  |  |

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 1

## P-1 Line Item Number / Title: 4129 / Small Arms and Weapons

Date: April 2022
Item Number / Title [DODIC]:
2 I SURFACE WARFARE

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

| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 65.049 | 5.829 | 3.083 | 5.798 | 0.000 | 5.798 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 65.049 | 5.829 | 3.083 | 5.798 | 0.000 | 5.798 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 65.049 | 5.829 | 3.083 | 5.798 | 0.000 | 5.798 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - |

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

|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |

Hardware - SURFACE WARFARE Cost

| Recurring Cost |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1.1) MK44 REFURB ${ }^{(\dagger)}$ | 41,000.00 | 1 | 0.041 | - | - | 0.000 |
| 1.1.2) M590A1 12 GAUGE SHOTGUN ${ }^{(+)}$ | 500.00 | 4,000 | 2.000 | 500.00 | 2,504 | 1.252 |
| 1.1.3) M4A1 5.56 MM CARBINE ${ }^{(t)}$ | 3,043.03 | 2,045 | 6.223 | - | - | 0.000 |
| $\begin{aligned} & \text { 1.1.4) M240B 7.62MM } \\ & \mathrm{MG}^{(+)} \end{aligned}$ | 75,653.74 | 361 | 27.311 | - | - | 0.000 |
| 1.1.5) M9 9MM PISTOL ${ }^{(\dagger)}$ | 9,717.39 | 230 | 2.235 | - | - | 0.000 |
| 1.1.6) M2HB REFURB/M2A1 QCB CONVO KITS ${ }^{(t)}$ | 5,072.20 | 277 | 1.405 | - | - | 0.000 |
| 1.1.7) M2A1 COMPONENTS | 27,275.68 | 555 | 15.138 | - | - | 0.000 |
| 1.1.8) M18 SERVICE PISTOL ${ }^{(\dagger)}$ | 200.00 | 39,900 | 7.980 | 200.00 | 9,000 | 1.800 |
| 1.1.10) M320A1 40MM GRENADE LAUNCHER ${ }^{(\dagger)}$ | - | - | 0.000 | 2,000.00 | 687 | 1.374 |
| $\begin{aligned} & \hline \text { 1.1.12) SU-289/ } \\ & \text { VCOG/SCO }{ }^{(\dagger)} \end{aligned}$ | - | - | 0.000 | 1,450.00 | 750 | 1.088 |

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: 4129 / Small Arms and Weapons |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 2 I SURFACE WARFARE |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| 1.1.13) Crew Served Weapons Optics MMO $^{(\dagger)}$ | - | . | 0.000 | 3,100.00 | 85 | 0.264 | - | - | 0.000 | 3,100.00 | 1,500 | 4.650 | - | . | 0.000 | 3,100.00 | 1,500 | 4.650 |
| Subtotal: Recurring Cost | - | - | 62.333 | - | - | 5.778 | - | - | 3.030 | - | - | 5.743 | - |  | 0.000 | - | - | 5.743 |
| Subtotal: Hardware - <br> SURFACE WARFARE Cost | - | - | 62.333 | - | - | 5.778 | - | - | 3.030 | - | - | 5.743 | - | - | 0.000 | - | - | 5.743 |
| Hardware - TRANSPORTATION ACCOUNT CODE (TAC) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.1) SMALL ARMS TAC | - | - | 0.300 | - | - | 0.050 | - | - | 0.050 | - | - | 0.052 | - | - | 0.000 | - | - | 0.052 |
| Subtotal: Recurring Cost | - | - | 0.300 | - | - | 0.050 | - | - | 0.050 | - | - | 0.052 | - | - | 0.000 | - | - | 0.052 |
| Subtotal: Hardware TRANSPORTATION ACCOUNT CODE (TAC) Cost | - | - | 0.300 | - | - | 0.050 | - |  | 0.050 | - | - | 0.052 | - | - | 0.000 | - | - | 0.052 |
| Support - SURFACE WARFARE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.1) PRODUCTION ENGINEERING | - | - | 2.416 | - | - | 0.001 | - | - | 0.003 | - | - | 0.003 | - | - | 0.000 | - | - | 0.003 |
| Subtotal: Support - <br> SURFACE WARFARE Cost | - | - | 2.416 | - | - | 0.001 | - | - | 0.003 | - | - | 0.003 | - | - | 0.000 | - | - | 0.003 |
| Gross/Weapon System Cost | - | - | 65.049 | - | - | 5.829 | - | - | 3.083 | - | - | 5.798 | - | - | 0.000 | - | - | 5.798 |

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

| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 1 |  |  |  | P-1 Line Item Number / Title: 4129 / Small Arms and Weapons |  |  |  | Item Number / Title [DODIC]: 2 I SURFACE WARFARE |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) MK44 REFURB |  | 2017 | FN / Columbia, SC | WR | NSWC CRANE | Mar 2017 | Mar 2017 | 1 | 40,800.00 | N |  |  |
| 1.1.2) M590A1 12 GAUGE SHOTGUN |  | 2020 | MOSSBERG / NEW HAVEN, CT | C/FFP | PICATINNY | Oct 2019 | Jan 2020 | 4,000 | 500.00 | N |  |  |
| 1.1.2) M590A1 12 GAUGE SHOTGUN |  | 2021 | MOSSBERG / NEW HAVEN, CT | C/FFP | PICATINNY | Oct 2020 | Jan 2021 | 2,504 | 500.00 | N |  |  |
| 1.1.3) M4A1 5.56MM CARBINE |  | 2016 | COLT / HARTFORD, CT | C/FFP | TACOM LCMC | May 2017 | Jun 2018 | 345 | 4,236.43 | N |  | Oct 2016 |
| 1.1.3) M4A1 5.56MM CARBINE |  | 2018 | COLT / HARTFORD, CT | C/FFP | TACOM LCMC | Jan 2018 | Feb 2019 | 1,000 | 4,236.43 | N |  | Oct 2017 |
| 1.1.3) M4A1 5.56 MM CARBINE |  | 2019 | COLT / HARTFORD, CT | C/FFP | TACOM LCMC | Jan 2019 | Feb 2020 | 500 | 750.00 | N |  | Oct 2018 |
| 1.1.3) M4A1 5.56MM CARBINE |  | 2020 | COLT / HARTFORD, CT | C/FFP | TACOM LCMC | Oct 2019 | Nov 2020 | 200 | 750.00 | N |  |  |
| 1.1.4) M240B 7.62 MM MG |  | 2016 | FN/ COLUMBIA, SC | C/IDIQ | TACOM LCMC | Dec 2015 | Jan 2018 | 192 | 75,635.74 | N |  | Oct 2015 |
| 1.1.4) M240B 7.62MM MG |  | 2017 | FN/ COLUMBIA, SC | C/IDIQ | PICATINNY | Jun 2017 | Jul 2019 | 169 | 75,635.74 | N |  | Oct 2016 |
| 1.1.5) M9 9MM PISTOL |  | 2016 | BERETTA / ACCOKEEK, MD | C/FFP | TACOM LCMC | Jun 2016 | Oct 2016 | 230 | 9,717.39 | N |  | Jan 2016 |
| 1.1.6) M2HB REFURB/M2A1 QCB CONVO KITS |  | 2017 | NSWC / CRANE, IN | WR | NSWC CRANE | Jun 2017 | Oct 2017 | 277 | 5,073.00 | N |  |  |
| 1.1.8) M18 SERVICE PISTOL |  | 2018 | SIGARMS / Exeter, NH | C/FFP | PICATINNY | Dec 2017 | Dec 2017 | 14,000 | 200.00 | N |  | Oct 2017 |
| 1.1.8) M18 SERVICE PISTOL |  | 2019 | SIGARMS / Exeter, NH | C/FFP | PICATINNY | Dec 2018 | Dec 2018 | 12,900 | 200.00 | N |  | Oct 2018 |
| 1.1.8) M18 SERVICE PISTOL |  | 2020 | SIGARMS / Exeter, NH | C/FFP | PICATINNY | Dec 2019 | Dec 2019 | 13,000 | 200.00 | N |  | Oct 2019 |
| 1.1.8) M18 SERVICE PISTOL |  | 2021 | SIGARMS / Exeter, NH | C/FFP | PICATINNY | Jul 2021 | Jul 2021 | 9,000 | 200.00 | N |  | Oct 2020 |
| 1.1.8) M18 SERVICE PISTOL |  | 2022 | SIGARMS / Exeter, NH | C/FFP | PICATINNY | Apr 2022 | Apr 2022 | 8,000 | 200.00 | N |  | Oct 2021 |
| 1.1.10) M320A1 40MM GRENADE LAUNCHER |  | 2021 | CAPCO, LLC / Grand Junction, CO | C/FFP | PICATINNY | Jul 2021 | Jan 2023 | 687 | 2,000.00 | N | Aug 2023 |  |
| 1.1.10) M320A1 40MM GRENADE LAUNCHER |  | 2022 | CAPCO, LLC / Grand Junction, CO | C/FFP | PICATINNY | Oct 2021 | Apr 2023 | 400 | 2,000.00 | N | Apr 2023 |  |
| 1.1.10) M320A1 40MM GRENADE LAUNCHER |  | 2023 | CAPCO, LLC / Grand Junction, CO | C/FFP | PICATINNY | Oct 2022 | Apr 2024 | 100 | 2,000.00 | N |  |  |
| 1.1.12) SU-289/VCOG/SCO |  | 2021 | TRIJICON / Wixom, Ml | MIPR | Quantico, VA | Jan 2021 | Jul 2022 | 750 | 1,450.00 | N |  |  |
| 1.1.12) SU-289/VCOG/SCO |  | 2023 | TRIJICON / Wixom, MI | MIPR | Quantico, VA | Jan 2023 | Jul 2024 | 595 | 1,500.00 | N |  |  |
| 1.1.13) Crew Served Weapons Optics MMO |  | 2021 | TRIJICON / Wixom, MI | C/IDIQ | PICATINNY, NJ | Jan 2021 | Jul 2022 | 85 | 3,100.00 | N |  |  |
| 1.1.13) Crew Served Weapons Optics MMO |  | 2023 | TRIJICON / Wixom, MI | C/IDIQ | PICATINNY, NJ | Jan 2023 | Jul 2024 | 1,500 | 3,100.00 | N |  |  |



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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: 4129 / Small Arms and Weapons |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 3 / STRATEGIC SYSTEMS PROGRAMS (SSP) |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | Qty (Each) | Total <br> Cost <br> (\$M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) |
| Gross/Weapon System Cost | . |  | 9.307 | - |  | 0.000 | - | . | 0.000 | - | . | 0.000 | - |  | 0.000 |  |  | 0.000 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 1 |  |  |  | P-1 Line Item Number / Title: 4129 / Small Arms and Weapons |  |  |  | Item Number / Title [DODIC]: <br> 3/ STRATEGIC SYSTEMS PROGRAMS (SSP) |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award <br> Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost <br> (s) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) M4A1 Supressor |  | 2017 | USMC / Quantico, VA | MIPR | Quantico, VA | May 2017 | Jan 2019 | 1,040 | 1,120.19 | N |  |  |
| 1.1.3) AN/PVQ-31B (RCOM4) |  | 2016 | USMC / Quantico, VA | MIPR | Quantico, VA | Jun 2016 | Jun 2017 | 849 | 872.79 | N |  |  |
| 1.1.3) AN/PVQ-31B (RCOM4) |  | 2017 | USMC / Quantico, VA | MIPR | Quantico, VA | May 2017 | May 2018 | 1,040 | 902.03 | N |  |  |
| 1.1.4) AN/PEQ-16 |  | 2016 | USMC / Quantico, VA | MIPR | Quantico, VA | Jun 2016 | Jun 2017 | 849 | 1,836.74 | N |  |  |
| 1.1.4) AN/PEQ-16 |  | 2017 | USMC / Quantico, VA | MIPR | Quantico, VA | May 2017 | May 2018 | 1,040 | 1,873.08 | N |  |  |
| 1.1.7) AN/PVS-14 |  | 2017 | USMC / Quantico, VA | MIPR | Quantico, VA | May 2017 | May 2018 | 352 | 3,752.72 | N |  |  |
| 1.1.9) AN/PAS-13G (V) 1 |  | 2017 | USMC / Quantico, VA | MIPR | Quantico, VA | May 2017 | May 2018 | 158 | 8,160.31 | N |  |  |

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Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 2: Modification
of Guns And Gun Mounts

## P-1 Line Item Number / Title:

4205 / Close-In Wpns Sys (CIWS) Mods

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

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

| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 1,800.411 | 41.147 | 6.274 | 2.655 | 0.000 | 2.655 | 28.982 | 16.933 | 17.460 | 17.467 | 2.144 | 1,933.473 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,800.411 | 41.147 | 6.274 | 2.655 | 0.000 | 2.655 | 28.982 | 16.933 | 17.460 | 17.467 | 2.144 | 1,933.473 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,800.411 | 41.147 | 6.274 | 2.655 | 0.000 | 2.655 | 28.982 | 16.933 | 17.460 | 17.467 | 2.144 | 1,933.473 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:


 penetrating other fleet defenses. Phalanx CIWS can operate autonomously or be integrated with a ship's combat system.

 with the OGB for improved target penetration.

 CIWS SeaRAM is installed on select LCS class ships and ROTA based Guided Missile Destroyers (DDGs).

The CIWS RAM Defense Capability (CRDC) is fielded aboard select Nimitz Class Carriers (CVN).

 and Alteration Installation Team (AIT) efforts.


 Ordnance Alterations (ORDALTS).

In FY23 this budget supports ECPs and ORDALT efforts.

| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 2: Modification of Guns And Gun Mounts | P-1 Line Item Number / Title: 4205 / Close-In Wpns Sys (CIWS) Mods |  |


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

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1 / Close-In Wpns Sys (CIWS) Mods |  |  |  | - 1476.970 | - 132.147 | - 16.274 | - 12.655 | - 10.000 | - 12.655 |
| P-3a | $1 /$ Block 1B Baseline 2 Radar Upgrades (ECP/ORDALT) |  |  |  | - /187.359 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | $2 /$ CIWS Block 1 B (Phalanx CIWS Block 1) |  |  |  | - / 1,136.082 | - 19.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 11,800.411 | - 141.147 | - 16.274 | - 12.655 | - 10.000 | - 12.655 |
| Exhibits Schedule |  |  |  |  | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1/ Close-In Wpns Sys (CIWS) Mods |  |  |  | - 1- | - 1- | - 1- | - 1- | - 1 | - 1 |
| P-3a | $1 /$ Block 1B Baseline 2 Radar Upgrades (ECP/ORDALT) |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - / 187.359 |
| P-3a | 2 / CIWS Block 1 B (Phalanx CIWS Block 1) |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - /1,145.082 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /28.982 | - /16.933 | - 117.460 | - /17.467 | - 12.144 | - /1,933.473 |
| *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. |  |  |  |  |  |  |  |  |  |  |

## Justification:

There are 248 U.S. (USN/USCG) shipboard systems, 4 trainers, 3 Engineering Development Module (EDM)/Periodic Conformance Inspection (PCI) mounts procured in the Program of Record.
In prior years, this line provided for CRDC hardware procurement, installation hardware and labor for AIT, In Service Engineering Agent (ISEA), contractor support and initial Integrated Logistics Support (ILS). This budget provides for development and fielding of future Engineering Change Proposals (ECPs) and Ordnance Alterations (ORDALT).

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Exhibit P-5, Cost Analysis: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2

## P-1 Line Item Number / Title: 4205 / Close-In Wpns Sys (CIWS) Mods

## Date: April 2022

## Item Number / Title [DODIC]:

1 / Close-In Wpns Sys (CIWS) Mods

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

| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 476.970 | 32.147 | 6.274 | 2.655 | 0.000 | 2.655 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 476.970 | 32.147 | 6.274 | 2.655 | 0.000 | 2.655 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 476.970 | 32.147 | 6.274 | 2.655 | 0.000 | 2.655 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - |


|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |

Hardware - DT001 CIWS BLOCK 1B Cost
Recurring Cost

| 1.1.1) Trainer Installation | 74,250.00 | 4 | 0.297 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1.2) ECP/ORDALT <br> (1) | - | - | 45.950 | - | - | 7.305 | - | - | 3.238 | - | - | 2.655 | - | - | 0.000 | - | - | 2.655 |
| 1.1.3) TRAINER UPGRADE/ CONVERSION | 1,908K | 4 | 7.633 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.4) TRAINER | 1,916K | 4 | 7.666 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.5) BLOCK 1B RM\&A ROADMAP ${ }^{(2)}$ | - | - | 100.968 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.6) GRAY RADOMES | - | - | 1.880 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 1.1.7) PRODUCTION ENGINEERING ${ }^{(3)}$ | - | - | 125.427 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| $\begin{aligned} & \text { 1.1.8) Sensor } \\ & \text { Upgrades }{ }^{(4)} \end{aligned}$ | - | - | 110.489 | - | - | 24.842 | - | - | 3.036 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| $\begin{aligned} & \text { 1.1.9) SeaRAM ROTA } \\ & \text { DDG } \end{aligned}$ | - | - | 65.760 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| $\begin{aligned} & \text { 1.1.10) CG } \\ & \text { Modernization } \end{aligned}$ | - | - | 10.900 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Recurring Cost | - | - | 476.970 | - | - | 32.147 | - | - | 6.274 | - | - | 2.655 | - | - | 0.000 | - | - | 2.655 |
| Subtotal: Hardware - DT001 CIWS BLOCK 1B Cost | - | - | 476.970 | - | - | 32.147 | - | - | 6.274 | - | - | 2.655 | - | - | 0.000 | - | - | 2.655 |

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UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 4205 I Close-In Wpns Sys (CIWS) Mods |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Close-In Wpns Sys (CIWS) Mods |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| $\begin{aligned} & \text { Gross/Weapon System } \\ & \text { Cost } \end{aligned}$ | . | . | 476.970 | - | - | 32.147 | . | . | 6.274 | . | . | 2.655 | - | . | 0.000 | - | . | 2.655 |

## Footnotes:

${ }^{(1)}$ In FY21 program received $\$ 4 \mathrm{M}$ for Phalanx SEARAM Weapons Computer Control Upgrade to address obsolescence of key components.
${ }^{(2)}$ Block 1B RM\&A procurements cancelled.
${ }^{(3)}$ Production Engineering efforts associated with RM\&A procurements cancelled.
${ }^{(4)}$ 1.1.8 Sensor Upgrades - The CIWS RAM Defense Capability (CRDC) is fielded aboard select CVN 68 NIMITZ class. In future years, this line will provide for terminal defense capability on Landing Helicopter Assault/Landing Helicopter Dock Class ships. This line provides for hardware procurement, installation hardware and labor for AIT, ISEA, contractor support and initial ILS support.

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## Description:



 provides a $10 \%$ increase in system level reliability and provides a $15 \%$ reduction in sailor man-hours required for CIWS planned system maintenance.

FY 2016 was the last year of procurement for Radar Upgrade (RUG) Kits.

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| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  | P-1 Line Item Number / Title: 4205 I Close-In Wpns Sys (CIWS) Mods |  |  |  |  |  | Modification Number / Title: <br> 1 / Block 1B Baseline 2 Radar Upgrades |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |  |
| Models of Systems Affected: CIWS Block 1B Block 1B Baseline 2 Radar Upgrades |  | Modification Type: ECP/ORDALT |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
|  | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Financial Plan | $\begin{array}{\|c} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Block 1B Baseline 2 Radar Upgrades |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.1.1) Block 1B Baseline 2 Radar Upgrades - Organic | $259 / 187.359$ | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | $1-$ | 1 | 259/187.359 |
| Subtotal: Recurring | - /187.359 | -1- | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - 10.000 | - /187.359 |
| Subtotal: Block 1B Baseline 2 Radar Upgrades | 259/187.359 | 1. | - / - | 1 | 1 - | - / - | 1 - | 1 - | 1 - | - 1 - | 1 - | 259/187.359 |
| Subtotal: Procurement, All Modification Items | - /187.359 | -1- | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - 10.000 | - /187.359 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - 1- | - 1 - | - 1- | - 1 | 1 | 1 - | $1-$ | 1 | 1 - | 1 | 1 | 1 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 187.359 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 187.359 |

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| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  | Date: April 2022 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  | P-1 Line Item Number / Title: 4205 / Close-In Wpns Sys (CIWS) Mods |  |  | Modification Number / Title: <br> 1 / Block 1B Baseline 2 Radar Upgrades |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : |  |  |  | MDAP/MAIS Code: |  |  |  |
| Modification Item 1 of 1: Block 1B Baseline 2 Radar Upgrades |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Raytheon CO |  |  |  | Manufacturer Location: Louisville KY |  |  |  |
| Administrative Leadtime (in Months): 3 |  |  |  | Production Leadtime (in Months): 12 |  |  |  |
| Dates | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
| Contract Dates |  |  |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |

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| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  | P-1 Line Item Number / Title: 4205 I Close-In Wpns Sys (CIWS) Mods |  |  |  |  | Modification Number / Title: 2 I CIWS Block 1 B |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 1,136.082 | 9.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1,145.082 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,136.082 | 9.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1,145.082 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,136.082 | 9.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1,145.082 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Block 1B mount includes the addition of a thermal imager, an automatic acquisition video tracker, and stabilization system for the tracker. The upgrade is essential to provide the Fleet capability against small high speed surface threats and low speed air threats.
[CIWS Block 1B] Installation schedule reflects the installation of the CIWS Block 1B and the modification kits CIWS Block 1B conversion upgrade. These 2 cost elements are incorporated into the mount at the factory and the complete mount is installed. It also includes eight SeaRAM installations for Rota-based DDGs (in FY19-FY21) procured under separate budget line items. The budget also provides for the Design Service Allocation (DSA) efforts associated with the planning yard ship checks, Ship Installation Drawing (SID) development, installation on-site support and Ship Selected Record (SSR) updates.


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Exhibit P-3a, Individual Modification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

1507N / 04 / 2

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

Modification Item 1 of 1: CIWS Block 1 B

## Manufacturer Information

| Manufacturer Name: Raytheon Co |  |  |  | Manufacturer Location: Louisville KY |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 0 |  |  |  | Production Leadtime (in Months): 26 |  |  |  |
| Dates | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
| Contract Dates | Jun 2021 |  |  |  |  |  |  |
| Delivery Dates | Aug 2023 |  |  |  |  |  |  |


| Installation Information |
| :--- |
| Method of Implementation: Non-Recurring:: Installation Name: BKits |


| Installation Cost | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 245/165.679 | 2/9.000 | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | $0 / 0.000$ | 247/174.679 |
| FY 2021 | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1- | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| FY 2022 | 1 - | - 1- | - 1- | - 1- | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1 | - 1 - | 1 |
| FY 2023 | - 1 - | - 1 - | - 1- | - 1- | - 1 - | - 1- | - 1- | - 1- | - 1 - | - 1 | - 1 | 1 |
| FY 2024 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1 | - 1 - | 1 |
| FY 2025 | 1 | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 - | 1 |
| FY 2026 | - 1 | - 1 | - 1 - | - 1 - | 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | 1 |
| FY 2027 | 1 | 1 | - 1 - | - 1- | 1 - | 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 | 1 |
| To Complete | 1 - | 1 - | - 1- | - 1- | 1 - | 1 | 1 | 1 - | - 1 - | - 1- | - 1 | 1 |
| Total | 245/165.679 | 2/9.000 | - 1- | - 1- | - 1- | 1- | - 1- | - 1- | - 1 - | - 1- | 0/0.000 | 247 / 174.679 |


Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 2: Modification
of Guns And Gun Mounts

## P-1 Line Item Number / Title:

4206 / Coast Guard Weapons

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 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 260.283 | 43.150 | 45.958 | 34.259 | 0.000 | 34.259 | 56.292 | 54.665 | 50.579 | 51.283 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 260.283 | 43.150 | 45.958 | 34.259 | 0.000 | 34.259 | 56.292 | 54.665 | 50.579 | 51.283 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 260.283 | 43.150 | 45.958 | 34.259 | 0.000 | 34.259 | 56.292 | 54.665 | 50.579 | 51.283 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 0.634 | 0.630 | 0.722 | - | 0.722 | 0.734 | 0.751 | 0.768 | 0.778 | Continuing | Continuing |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 funded under the Department of Homeland Security appropriation.

 Operational Capabilities in concert with US Navy units.






 Capabilities (NOC) document.


 the Naval Operational Capabilities (NOC) document.

## Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 2: Modification
P-1 Line Item Number / Title: of Guns And Gun Mounts

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






 narrow waterways and in-port.


 Weapon System engagements.
Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 2: Modification
of Guns And Gun Mounts

## P-1 Line Item Number / Title: <br> 4206 / Coast Guard Weapons

 of Guns And Gun Mounts| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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-5 | 1/ Coast Guard Weapons | P-5a, P-21 |  |  | - 1260.283 | - / 43.150 | - / 45.958 | - 134.259 | - 10.000 | - 134.259 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1260.283 | - $/ 43.150$ | - $/ 45.958$ | - 134.259 | - 10.000 | - 134.259 |

*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 2023 funding request was adjusted by $\$ 13.071 \mathrm{M}$ to account for the availability of prior year execution balances.
Funding and inter-service agreements are used to procure Navy-Type/Navy-Owned (NT/NO) combat systems, support equipment, Integrated Logistics Support (ILS), certification, test and production support for USCG National Security Cutter (NSC), aka the Maritime Security Cutter, Large (WMSL), the Offshore Patrol Cutter (OPC) Class, aka the Maritime Security Cutter, Medium (WMSM) and the Polar Security Cutter (PSC), aka the Maritime Security Cutter, Polar (WMSP), Fast Response Cutter (FRC), aka the Patrol Coastal Cutter (WPC), and the 270' Medium Endurance Cutter (WMEC) modernization effort being constructed under the Coast Guard's Surface Acquisition Program. Funding also supports C 4 l systems and associated logistic support for the Offshore Patrol Cutter. These efforts are ongoing.

FY 2023 funds the following Coast Guard Weapon items for USCG cutters: procurement of 57 mm MK 110 Guns and associated ILS; procurement of MK 160 Gun Computer Systems and associated support; procurement of MK 38 Machine Gun Systems, associated spares/equipment, MK 38 Upgrade to attach a 7.62 mm MK 52 Mod 0 Coaxial Gun and CUAS kits, and associated ILS support; provide integration of Gun Weapon Systems with Combat Systems and Sensors (Gun Weapon System Integration) for all supported hull classes; procure and integrate the ATHENA Control, Correlation \& Display (CCD) System on WMSMs, which provides target queuing for Gun Weapon System engagements.

## UNCLASSIFIED

## Exhibit P-5, Cost Analysis: PB 2023 Navy <br> Appropriation / Budget Activity / Budget Sub Activity:

 1507N / 04 / 2
## P-1 Line Item Number / Title: 4206 / Coast Guard Weapons

## Date: April 2022

## Item Number / Title [DODIC]:

1/ Coast Guard Weapons

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

| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 260.283 | 43.150 | 45.958 | 34.259 | 0.000 | 34.259 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 260.283 | 43.150 | 45.958 | 34.259 | 0.000 | 34.259 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 260.283 | 43.150 | 45.958 | 34.259 | 0.000 | 34.259 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 0.634 | 0.630 | 0.722 | - | 0.722 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - |

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

|  | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | Qty | Total Cost <br> (\$ M) | Unit Cost (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | Qty <br> (Each) | Total Cost <br> (\$ M) | Unit Cost (\$) | Qty | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |

## Hardware - CG002 MK 110 GUN Cost

Recurring Cost

| 1.1.1) $57 \mathrm{MM} \mathrm{GUN}^{(\dagger)}$ (1) | 8,599K | 13 | 111.782 | 9,370K | 2 | 18.740 | 9,427K | 2 | 18.854 | 9,546K | 1 | 9.546 | - | - | - | 9,546K | 1 | 9.546 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1.2) INTEGRATED LOGISTICS SUPPORT ${ }^{(2)}$ | - | - | 19.380 | - | - | 3.395 | - | - | 3.354 | - | - | 3.454 | - | - | - | - | - | 3.454 |
| Subtotal: Recurring Cost | - | - | 131.162 | - | - | 22.135 | - | - | 22.208 | - | - | 13.000 | - | - | - | - | - | 13.000 |
| Subtotal: Hardware - CG002 MK 110 GUN Cost | - | - | 131.162 | - | - | 22.135 | - | - | 22.208 | - | - | 13.000 | - | - | - | - | - | 13.000 |

Hardware - CG003 MK 160 GCS Cost
Recurring Cost

| 2.1.1) SYSTEM <br> ENGINEERING <br> SUPPORT | - | - | 1.340 | - | - | - |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2.1.2) PRODUCTION <br> SUPPORT | - | - | 3.748 | - | - | - |  |
| 2.1.3) DATA | - | - | 1.277 | - | - | - |  |
|  <br> TEST SUPPORT | - | - | 1.927 | - | - | - |  |
| 2.1.5) ANCILLARY <br> EQUIPMENT |  |  |  |  |  |  |  |
| ( ) | $522,500.00$ | 2 | 1.045 | - | - | - |  |
| 2.1.6) GUN <br> COMPUTER <br> SYSTEM $^{(\dagger)(3)}$ | $1,587 \mathrm{~K}$ | 10 | 15.873 | $1,624 \mathrm{~K}$ | 2 | 3.248 |  |

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| Exhibit P-5, Cost Analysis: PB 2023 Navy | Date: April 2022 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $1507 \mathrm{~N} / 04$ / 2 | P-1 Line Item Number / Title: <br> $4206 ~ / ~ C o a s t ~ G u a r d ~ W e a p o n s ~$ | Item Number / Title [DODIC]: <br> $1 /$ / Coast Guard Weapons |

ID Code (A=Service Ready, B=Not Service Ready) :
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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 2.1.7) MK160 GCS SOFTWARE UPDATE OPC | - | - | 2.548 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.1.8) INTEGRATED LOGISTICS SUPPORT ${ }^{(4)}$ | - | - | 2.456 | - | - | 0.704 | - | - | 0.734 | - | - | 2.199 | - | - | - | - | - | 2.199 |
| 2.1.9) WMSL MK160 57MM GUN AMMO UPDATES ${ }^{(5)}$ | - | - | - | - | - | - | - | - | - | - | - | 1.750 | - | - | - | - | - | 1.750 |
| Subtotal: Recurring Cost | - | - | 30.214 | - | - | 3.952 | - | - | 4.002 | - | - | 6.449 | - | - | - | - | - | 6.449 |
| Subtotal: Hardware - CG003 <br> MK 160 GCS Cost | - | - | 30.214 | - | - | 3.952 | - | - | 4.002 | - | - | 6.449 | - | - | - | - | - | 6.449 |

Hardware - CG004 MK 38 MACHINE GUN SYSTEMS Cost

## Recurring Cost

| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ${ }^{(\dagger)}$ (6) | 1,046K | 55 | 57.536 | 1,327K | 6 | 7.962 | 1,335K | 6 | 8.009 | - | - | - | - | - | - | - | - | - |
| 3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC ${ }^{(\dagger)}$ (7) | 1,273K | 5 | 6.366 | - | - | - | 1,335K | 2 | 2.670 | - | - | - | - | - | - | - | - | - |
| 3.1.3) MACHINE GUN SYSTEM EQUIPMENT WMEC $^{(\dagger)}{ }^{(8)}$ | 1,302K | 1 | 1.302 | 1,327K | 1 | 1.327 | 1,335K | 2 | 2.670 | - | - | - | - | - | - | - | - |  |
| 3.1.4) MACHINE GUN SYSTEM EQUIPMENT PSC ${ }^{(\dagger)}$ (9) | - | - | - | - | - | - | - | - | - | 3,250K | 2 | 6.500 | - | - | - | 3,250K | 2 | 6.500 |
| 3.1.5) MK38 COAXIAL GUN \& CUAS UPGRADE ${ }^{(10)}$ | - | - | 0.833 | - | - | 0.428 | - | - | 0.582 | - | - | 0.763 | - | - | - | - | - | 0.763 |
| 3.1.6) INTEGRATED LOGISTICS SUPPORT FRC ${ }^{(11)}$ | - | - | 15.046 | - | - | 2.466 | - | - | 2.514 | - | - | 2.308 | - | - | - | - | - | 2.308 |
| 3.1.7) INTEGRATED LOGISTICS SUPPORT OPC ${ }^{(12)}$ | - | - | 1.782 | - | - | 0.822 | - | - | 0.838 | - | - | 0.760 | - | - | - | - | - | 0.760 |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 4206 / Coast Guard Weapons |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 1 / Coast Guard Weapons |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 3.1.8) INTEGRATED LOGISTICS SUPPORT WMEC ${ }^{(13)}$ | - | - | 0.390 | - | - | 0.390 | - | - | 0.761 | - | - | 0.715 | - | - | - | - | - | 0.715 |
| 3.1.9) INTEGRATED LOGISTICS SUPPORT PSC ${ }^{(14)}$ | - | - | - | - | - | - | - | - | - | - | - | 0.250 | - | - | - | - | - | 0.250 |
| Subtotal: Recurring Cost | - | - | 83.255 | - | - | 13.395 | - | - | 18.044 | - | - | 11.296 | - | - | - | - | - | 11.296 |
| Subtotal: Hardware - CG004 MK 38 MACHINE GUN SYSTEMS Cost | - | - | 83.255 | - | - | 13.395 | - | - | 18.044 | - | - | 11.296 | - | - | - | - | - | 11.296 |
| Support - CG005 GUN WEAPON SYSTEM INTEGRATION Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1) Gun Weapon System Integration ${ }^{(15)}$ | - | - | 15.652 | - | - | 3.668 | - | - | 1.704 | - | - | 3.514 | - | - | - | - | - | 3.514 |
| Subtotal: Support - CG005 GUN WEAPON SYSTEM INTEGRATION Cost | - | - | 15.652 | - | - | 3.668 | - | - | 1.704 | - | - | 3.514 | - | - | - | - | - | 3.514 |
| Gross/Weapon System Cost | - | - | 260.283 | - | - | 43.150 | - | - | 45.958 | - | - | 34.259 | - | - | 0.000 | - | - | 34.259 |

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

## Footnotes:

${ }^{(1)}$ Reduction of one OPC MK 110 Gun in FY23 to avoid procuring ahead of in yard need date schedules.
${ }^{(2)}$ FY23 increase is attributed to first of kind installs on new NSC and OPC class ships.
${ }^{(3)}$ FY2023 unit cost reduction attributed to transition from MOD 1 to MOD 2 and new competitive contract award.
${ }^{(4)}$ Increase in FY2023 attributed to first of kind installs on new NSC and OPC class ships.

 testing. It requires replacement of the Gun Control Panel and Gun Control Computer with newer operating systems.
${ }^{(6)}$ Reduced MK 38 MGS FRC quantity from 6 in FY22 to 0 in FY23 due to the availability of prior year execution balances.
${ }^{(7)}$ Reduced MK 38 MGS OPC quantity from 2 in FY22 to 0 in FY23 due to the availability of prior year execution balances.
${ }^{(8)}$ Reduced MK 38 MGS WMEC quantity from 2 in FY22 to 0 in FY23 due to the availability of prior year execution balances.

 range.
${ }^{(10)}$ Increase in FY2023 attributed to addition of CUAS capability backfits on in service USCG cutters.

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 | P-1 Line Item Number / Title: 4206 / Coast Guard Weapons | Item Number / Title [DODIC]: <br> 1 / Coast Guard Weapons |
| ID Code (A=Service Ready, B=Not Service Ready) : |  | MDAP/MAIS Code: |
| ${ }^{(11)}$ Decrease in FY2023 attributed to fair share cost across four USCG surface acquisition programs (FRC, OPC, WMEC and PSC) vice the previous three. <br> ${ }^{(12)}$ Decrease in FY2023 attributed to fair share cost across four USCG surface acquisition programs (FRC, OPC, WMEC and PSC) vice the previous three. <br> ${ }^{(13)}$ Decrease in FY2023 attributed to fair share cost across four USCG surface acquisition programs (FRC, OPC, WMEC and PSC) vice the previous three. <br> ${ }^{(14)}$ New FY2023 Integrated Logistics Support Cost Element required when USCG Polar Security Cutter surface acquisition begins. <br> ${ }^{(15)}$ Cost increase in FY2023 attributed to first of kind installs, testing and evaluation on NSC, OPC and PSC class cutters. |  |  |


\section*{| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |
| :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: | <br> 1507N / 04 / 2}

Date: April 2022

| Cost Elements | 0 <br> $C$ <br> 0 | 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 <br> (\$) | Specs <br> Avail <br> Now? | Date Revision Available | RFP Issue Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1.1) $57 \mathrm{MM} \mathrm{GUN}{ }^{(\dagger)}$ |  | 2013 | BAE SYSTEMS / MINNEAPOLIS, MN | SS / FP | NAVSEA | Sep 2014 | Sep 2016 | 1 | 8,600K | $Y$ |  | Jun 2010 |
| 1.1.1) $57 \mathrm{MM} \mathrm{GUN}{ }^{(\dagger)}$ |  | 2015 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NAVSEA | Oct 2015 | Oct 2017 | 1 | 8,097K | Y |  | Oct 2013 |
| 1.1.1) $57 \mathrm{MM} \mathrm{GUN}^{(\dagger)}$ |  | 2016 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NAVSEA | Dec 2015 | Dec 2017 | 1 | 8,528K | Y |  | Oct 2013 |
| 1.1.1) $57 \mathrm{MM} \mathrm{GUN}{ }^{(\dagger)}$ |  | 2017 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NAVSEA | Aug 2017 | Aug 2019 | 2 | 8,490K | Y |  | Aug 2016 |
| 1.1.1) $57 \mathrm{MM} \mathrm{GUN}{ }^{(\dagger)}$ |  | 2018 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NAVSEA | Jun 2018 | Jun 2020 | 2 | 8,855K | Y |  | Aug 2016 |
| 1.1.1) $57 \mathrm{MM} \mathrm{GUN}{ }^{(\dagger)}$ |  | $2019{ }^{(16)}$ | BAE SYSTEMS / MINNEAPOLIS, MN | C/FFP | NAVSEA | Jun 2019 | Sep 2021 | 2 | 9,023K | Y |  | Aug 2016 |
| 1.1.1) $57 \mathrm{MM} \mathrm{GUN}{ }^{(\dagger)}$ |  | $2020{ }^{(17)}$ | BAE SYSTEMS / MINNEAPOLIS, MN | C/FFP | NAVSEA | Sep 2020 | Dec 2022 | 2 | 9,195K | Y |  | Aug 2016 |
| 1.1.1) $57 \mathrm{MM} \mathrm{GUN}{ }^{(\dagger)}$ |  | $2021{ }^{(18)}$ | BAE SYSTEMS / MINNEAPOLIS, MN | C/FFP | NAVSEA | Sep 2021 | Dec 2023 | 2 | 9,370K | Y |  | Nov 2020 |
| 1.1.1) $57 \mathrm{MM} \mathrm{GUN}{ }^{(\dagger)}$ |  | $2022^{(19)}$ | BAE SYSTEMS / MINNEAPOLIS, MN | C / FFP | NAVSEA | May 2022 | Aug 2024 | 2 | 9,427K | Y |  | Nov 2020 |
| 1.1.1) $57 \mathrm{MM} \mathrm{GUN}{ }^{(\dagger)}$ |  | $2023{ }^{(20)}$ | BAE SYSTEMS / MINNEAPOLIS, MN | C/FFP | NAVSEA | May 2023 | Aug 2025 | 1 | 9,546K | N |  | Nov 2020 |
| 2.1.5) ANCILLARY EQUIPMENT |  | 2016 | US Army Contracting Command / Picatinny Arsenal, NJ | MIPR | Picatinny, NJ | Aug 2016 | Aug 2017 | 2 | 522,500.00 | Y |  | Mar 2016 |
| 2.1.6) GUN COMPUTER SYSTEM |  | 2017 | LOCKHEED MARTIN I MANASSAS, VA | C / FFP | NAVSEA | Mar 2017 | Dec 2017 | 1 | 1,506K | Y |  | Jan 2016 |
| 2.1.6) GUN COMPUTER SYSTEM |  | 2018 | LOCKHEED MARTIN I MANASSAS, VA | C/FFP | NAVSEA | Mar 2018 | Dec 2018 | 3 | 1,535K | Y |  | Jan 2016 |
| 2.1.6) GUN COMPUTER SYSTEM |  | $2019{ }^{(21)}$ | LOCKHEED MARTIN I MANASSAS, VA | C/FFP | NAVSEA | Jun 2019 | Dec 2020 | 3 | 1,564K | Y |  | Jan 2016 |
| 2.1.6) GUN COMPUTER SYSTEM |  | $2020{ }^{(22)}$ | LOCKHEED MARTIN I MANASSAS, VA | C/FFP | NAVSEA | Jul 2020 | Jan 2022 | 2 | 1,594K | Y |  | Jan 2016 |
| 2.1.6) GUN COMPUTER SYSTEM |  | $2021{ }^{(23)}$ | LOCKHEED MARTIN I MANASSAS, VA | C/FFP | NAVSEA | May 2021 | Nov 2022 | 2 | 1,624K | Y |  | Jan 2016 |
| 2.1.6) GUN COMPUTER SYSTEM |  | $2022{ }^{(24)}$ | DRS LAUREL TECHNOLOGIES / UNKNOWN | C/ FFP | NAVSEA | Jun 2022 | Dec 2023 | 2 | 1,634K | Y |  | May 2019 |
| 2.1.6) GUN COMPUTER SYSTEM |  | $2023{ }^{(25)}$ | DRS LAUREL TECHNOLOGIES / UNKNOWN | C/FP | NAVSEA | Jun 2023 | Dec 2024 | 2 | 1,250K | N |  | May 2019 |
| 3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ${ }^{(\dagger)}$ |  | 2015 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Oct 2015 | Oct 2016 | 4 | 1,185K | Y |  | Aug 2015 |
| 3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ${ }^{(\dagger)}$ |  | 2017 | BAE SYSTEMS / MINNEAPOLIS, MN | SS / FP | NSWC IHD | Sep 2017 | Sep 2018 | 1 | 1,230K | Y |  | Aug 2016 |
| 3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ${ }^{(\dagger)}$ |  | 2018 | BAE SYSTEMS / MINNEAPOLIS, MN | SS / FP | NSWC IHD | Jun 2018 | Jun 2019 | 11 | 1,254K | Y |  | Aug 2016 |
| 3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ${ }^{(\dagger)}$ |  | 2019 | BAE SYSTEMS / MINNEAPOLIS, MN | SS / FP | NSWC IHD | Jun 2019 | Jun 2020 | 6 | 1,278K | Y |  | Aug 2016 |


| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  | P-1 Line Item Number / Title: 4206 / Coast Guard Weapons |  |  |  | Item Number / Title [DODIC]: <br> 1 / Coast Guard Weapons |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award <br> Date | Date of First Delivery | $\underset{\text { (Each) }}{\text { Qty }}$ | Unit Cost (8) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ${ }^{(+)}$ |  | 2020 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Jun 2020 | Jun 2021 | 6 | 1,302K | Y |  | Aug 2016 |
| 3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ${ }^{(\dagger)}$ |  | 2021 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Sep 2021 | Sep 2022 | 6 | 1,327K | Y |  | Aug 2016 |
| 3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ${ }^{(\dagger)}$ |  | 2022 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Jun 2022 | Jun 2023 | 6 | 1,335K | Y |  | Dec 2021 |
| 3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC ${ }^{(\dagger)}$ |  | 2017 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Mar 2017 | Mar 2018 | 1 | 1,230K | Y |  | Aug 2015 |
| 3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC ${ }^{(\dagger)}$ |  | 2018 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Jun 2018 | Jun 2019 | 1 | 1,254K | Y |  | Aug 2015 |
| 3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC ${ }^{(\dagger)}$ |  | 2019 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Jun 2019 | Jun 2020 | 1 | 1,278K | Y |  | Aug 2015 |
| 3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC ${ }^{(\dagger)}$ |  | 2020 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Jun 2020 | Jun 2021 | 2 | 1,302K | Y |  | Aug 2015 |
| 3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC ${ }^{(\dagger)}$ |  | 2022 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Jun 2022 | Jun 2023 | 2 | 1,335K | Y |  | Dec 2021 |
| 3.1.3) MACHINE GUN SYSTEM EQUIPMENT WMEC |  | 2020 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Jun 2020 | Jun 2021 | 1 | 1,302K | Y |  | Aug 2016 |
| 3.1.3) MACHINE GUN SYSTEM EQUIPMENT WMEC |  | 2021 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Sep 2021 | Sep 2022 | 1 | 1,327K | Y |  | Aug 2016 |
| 3.1.3) MACHINE GUN SYSTEM EQUIPMENT WMEC |  | 2022 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Jun 2022 | Jun 2023 | 2 | 1,335K | Y |  | Dec 2021 |
| 3.1.4) MACHINE GUN SYSTEM EQUIPMENT PSC ${ }^{(\dagger)}$ |  | 2023 | BAE SYSTEMS / MINNEAPOLIS, MN | SS/FP | NSWC IHD | Jul 2023 | Dec 2024 | 2 | 3,250K | N |  |  |

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

## Footnotes:

${ }^{(16)} 27$ month manufacturing lead time.
${ }^{(17)} 27$ month manufacturing lead time.
(18) 27 month manufacturing lead time.
${ }^{(19)} 27$ month manufacturing lead time.
${ }^{(20)} 27$ month manufacturing lead time.
${ }^{(21)}$ Manufacturing lead time will be 18 months.
${ }^{(22)}$ Manufacturing lead time will be 18 months.
${ }^{(23)}$ Manufacturing lead time will be 18 months

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy | Date: April 2022 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $1507 \mathrm{~N} / 04$ /2 | P-1 Line Item Number / Title: <br> $4206 /$ Coast Guard Weapons | Item Number / Title [DODIC]: <br> $1 /$ Coast Guard Weapons |
| ${ }^{(24)}$ Manufacturing lead time will be 18 months. |  |  |

${ }^{(24)}$ Manufacturing lead time will be 18 months.
${ }^{(25)}$ Manufacturing lead time will be 18 months.

## UNCLASSIFIED



## UNCLASSIFIED



## UNCLASSIFIED



## UNCLASSIFIED



## UNCLASSIFIED



## UNCLASSIFIED



UNCLASSIFIED

| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 4206 / Coast Guard Weapons |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Coast Guard Weapons |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2023 1-8-5 For 2023 |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | 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 | BAE SYSTEMS MINNEAPOLIS, MN | 1 | 2 |  | 4 | 9 | 3 | 30 | 33 | 3 | 3 | 24 | 27 |
| 2 | BAE SYSTEMS MINNEAPOLIS, MN | 10 | 24 | 60 | 6 | 3 | 18 | 21 | 3 | 3 | 12 | 15 |
| 3 | BAE SYSTEMS MINNEAPOLIS, MN | 10 | 24 | 60 | 6 | 3 | 18 | 21 | 3 | 3 | 12 | 15 |
| 4 | BAE SYSTEMS MINNEAPOLIS, MN | 10 | 24 | TBD | 6 | 3 | 17 | 20 | 6 | 3 | 17 | 20 |

" 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:

${ }^{(26)}$ Dates associated with this purchase in P5-a not yet provided

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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Date: April 2022

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 2: Modification
P-1 Line Item Number / Title:
of Guns And Gun Mounts
4217 / Gun Mount Mods

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 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 785.409 | 102.068 | 93.775 | 81.725 | 0.000 | 81.725 | 82.483 | 82.242 | 84.466 | 85.151 | - | 1,397.319 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 785.409 | 102.068 | 93.775 | 81.725 | 0.000 | 81.725 | 82.483 | 82.242 | 84.466 | 85.151 | - | 1,397.319 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 785.409 | 102.068 | 93.775 | 81.725 | 0.000 | 81.725 | 82.483 | 82.242 | 84.466 | 85.151 | - | 1,397.319 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 3.437 | 3.417 | 3.917 | - | 3.917 | 3.978 | 4.065 | 4.159 | 4.219 | Continuing | Continuing |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Gun Mount Mods supports various types of Gun Weapon Systems, sub-system modifications and upgrade requirements.
[P5 / E5002 MEDIUM CALIBER GUN MODS]: Medium Caliber Gun Mounts (MK110 57mm) installed on United States Coast Guard (USCG) Maritime Security Cutters, Large (WMSL), and USCG Maritime Security Cutters, Medium (WMSM) as well as land based training/test units. The gun mounts provide an anti-surface warfare and anti-air warfare capability for outfitted ships. Funds procure Ordnance Alterations (ORDALT kits), and provide Integrated Logistics Support (ILS) and production engineering for system improvements that affect safety, reliability and maintainability.
[P5 / E5006 MINOR CALIBER GUN MODS]: Minor Caliber Gun Mounts (MK38 MOD or MK46 MOD) are installed on Amphibious Assault Ships (AS), Aircraft Carrier (nuclear propulsion) (CVN), Guided Missile Cruisers, (CG), Destroyer Designated Guided ships (DDG), Littoral Combat Ships (LCS), Landing Ship Dock amphibious assault ships (LSD), Landing Helicopter Assault ships (LHA), Landing Helicopter Dock amphibious assault ships (LHD), Landing Platform Dock amphibious transport ship (LPD), Patrol Crafts Coastal (PC), Amphibious Command Ships (LCC), MK VI Patrol Boats and land based training/test units. The gun mounts provide an anti-surface warfare and anti-air warfare capability for outfitted ships. Funds procure gun weapon system, ordnance alteration (ORDALT), and conversion kits. Funds also deliver integrated logistics support (ILS), production engineering, and installations for system improvements that affect safety, cybersecurity, reliability, and maintainability. USN Fleet population of 25 mm MK 38 Machine Gun System (MGS) consists of MOD 2 and MOD 3 variants. The MOD 2 will be converted to the MOD 3 to receive obsolescence, cybersecurity, and Counter Unmanned Aerial System (C-UAS) capability upgrades. DDG 51 Flight IIA and Flight III Destroyers will receive the new 30 mm MK 38 MOD 4 Gun Weapon System (GWS), which is integrated with the AEGIS combat system for greater lethality and accuracy in the execution of C-UAS and Counter Unmanned Surface Vehicles (C-USV) operations.
[P5 / E5011 MAJOR CALIBER GUN MODS]: The 5-Inch MK45 MOD Gun Mounts are automated, lightweight, single-barrel gun mounts that provide an anti-surface warfare, anti-air warfare, and naval surface fire support capability for outfitted ships. The MK45 is installed on CG47 and DDG51 Class surface ships and land based training/test units. Funds procure ORDALTs kits, and provide ILS and production engineering for system improvements that affect safety, reliability and maintainability.
[P5 / E5CON BALLISTIC SHIELDING]: Crew Served Weapon Systems (CSWS) Advanced Ballistic Shielding (ABS) - Advanced Ballistic Shielding will be procured and installed onboard Aircraft Carrier (nuclear propulsion) (CVN), providing ballistic protection for Crew Served Weapon Systems. Funds are used for ship checks, Ship Installation Drawings (SID), procure materials, shipboard M2200 Shielding Kits, and production engineering for system improvements that affect safety, reliability, and maintainability.

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 2: Modification
P-1 Line Item Number / Title: of Guns And Gun Mounts

4217 / Gun Mount Mods

| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1 / Gun Mount Mods |  |  |  | - $/ 270.826$ | - 182.328 | - 187.123 | - $/ 81.325$ | - 10.000 | - 181.325 |
| P-3a | 1 / E5006 MINOR CALIBER GUN MODS MK38 GUN KITS (TBD) |  |  |  | - 1514.583 | - / 19.740 | - 16.652 | - 10.400 | - 10.000 | - 10.400 |
| P-40 Total Gross/Weapon System Cost |  |  |  |  | - 1785.409 | - /102.068 | - 193.775 | - 181.725 | 10.000 | 181.725 |
| Exhibits Schedule |  |  |  |  | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | 1 / Gun Mount Mods |  |  |  | - 1 | 1 | 1 | - 1- | - 1- | 1 - |
| P-3a | 1 / E5006 MINOR CALIBER GUN MODS MK38 GUN KITS (TBD) |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 1541.375 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 182.483 | - 182.242 | - 184.466 | - 185.151 | - 1 - | - /1,397.319 |

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

## Justification:

 in increased number of in-service gun mounts.

E5006 MINOR CALIBER GUN MODS MK38: The USN will stop procuring new MK38 MOD 3 MGS (MK38 GUN KITS) after FY22. Future MK38 MOD 3 MGS will be created by refurbishing and upgrading 25mm MK 38 MOD 2 MGS. New cost elements are established to reflect this fielding change in FY23: 2.1.1-MK38 COAX ORDALT KIT, 2.1.2 - MK38 COAX ORDALT KIT INSTALL, 2.1.3 - MK38 MOD 3 CONVERSION KIT, 2.1.4-MK38 MOD 3 CONVERSION KIT FWD FIT INSTALL, and 2.1.5-MK38 MOD 3 CONVERSION KIT BACKFIT INSTALL. Prior MK 38 MOD 3 MGS (MK38 Gun Kit) supporting cost elements will terminate in FY22: 2.1.7 MK 38 UPGRADE KITS, 2.1.8 MK38 UPGRADE KIT INSTALL, and 2.1.10 MK38 BACKFIT KIT.
 procurements of the MK 38 MOD 4 GWS and installations on DDG 51 Flight IIA and Flight III Destroyers.

 CC-0558).


 installation quantities are based on an 18 month production lead time and ship availability schedules. This effort supports procurement quantities to support seventeen (17) ships.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 2: Modification <br> P-1 Line Item Number / Title: <br> 4217 / Gun Mount Mods

 of Guns And Gun Mounts

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

 CONVERSION KIT. The newly created MK 38 MOD 3 is installed on a new ship as a forward fit.

FY2023 E5006 MINOR CALIBER GUN MODS 2.1.5) MK38 MOD 3 CONVERSION KIT BACKFIT INSTALL: This cost element refurbishes and upgrades a 25 mm MK 38 MOD 2 MGS by installing a MK 38 MOD 3 CONVERSION KIT. The newly created MK 38 MOD 3 is installed on a ship, which previously had a MK 38 MOD 2 MGS. This refers to the upgrade from MK 38 MOD 2 to MOD 3 of an existing mount on an inservice ship. In FY23, Cost Element 2.1.5 [MK38 MOD 3 CONVERSION KIT BACKFIT INSTALL] funds installation of QTY 13 MOD 3 conversion kits to upgrade MK 38 MOD 2 mounts on six ( 6 ) ships, these kits are procured in FY22 under Cost Element 2.1.10 [MK38 BACKFIT KIT]. This effort supports procurement quantities to support six (6) ships.

FY 2023 E5006 MINOR CALIBER GUN MODS 2.1.6) MK38 GUN KITS ILS/TEST/PRODUCTION SUPT: Increase from FY22 to FY23 due to addition of MK 38 MOD 4 GWS, which requires significant increase in logistics and production support leading up to first installation of the Initial Operational Capability (IOC) in FY25.

FY 2023 E5006 MINOR CALIBER GUN MODS 2.1.9) MK38 UPGRADE LOGISTICS SUPT: This cost element funds development of integrated logistics support certification, ship change directive development, technical manual updates, provisioning support, and other logistics efforts required to support the system while installed onboard a ship.

FY 2023 E5006 MINOR CALIBER GUN MODS 2.1.11) TECH REFRESH: Increase from FY22 to FY23 due to development of MK38 MOD 4 engineering change proposals in support of first Initial Operational Capability system installations in FY25.

FY 2023 E5006 MINOR CALIBER GUN MODS 2.1.12) MK 38 MOD 4 GWS: Cost to procure MK 38 MOD 4 GWS. This cost element funds the procurement of QTY eleven (11) MK 38 MOD 4 GWS (unit cost $\$ 3.088 \mathrm{~K}$ ) in FY23 to achieve IOC in FY25. Funding is required in FY23 due to a $\sim 2$ year lead time from contract award to system checkout on the target ship in FY25. This lead time consists of 18 months production, 1 month mount preparation, 3 months installation, and 1 month sea trial. One (1) of the eleven (11) mounts is a land-based Fleet support asset that would be installed at the MK 38 In -service Engineering Agent's site. This mount needs to be ordered in FY23 to leave enough time for 18 months production, 2 months installation, 1 month land-based test and checkout by FY25. This effort supports fielding of critical C-UAS and C-USV capability to five (5) DDG 51 ships.

FY 2023 E5006 MINOR CALIBER GUN MODS 2.1.13) MK 38 MOD 4 GWS INSTALL PLANNING: Cost to conduct installation planning to field MK 38 MOD 4 GWS on DDG 51 ships. Installation planning includes development of installation drawings and topside analysis. This cost element funds all efforts required to plan the installations of the gun systems on their respective ships. This includes development of a ship installation drawing package, which is required to start 22 months before installation and takes 7.5 months to develop, since it involves ship checks and extensive safety and engineering analysis. This effort supports fielding of critical C-UAS and C-USV capability to five (5) DDG 51 ships.

FY 2023 E5006 MINOR CALIBER GUN MODS 2.1.15) MK46 GWS KITS: Cost increase from FY22 to FY23 attributed to additional MK46 GWS Kit requirements to address obsolescence and reliability in increased number of in-service gun mounts.

FY 2023 E5006 MINOR CALIBER GUN MODS 2.1.16) MK46 GWS KIT INSTALL increase is attributed to additional MK46 Kit installation requirements due to the increased number of MK46 in-service Gun Weapon Systems (GWS). The number of in-service MK46 GWS's within the fleet increased with the addition of DDG 1000 (1), LCS (1), and LPD 17 (3) ships, which require additional Installation Kits and associated installation efforts to address fleet obsolescence and software issues.

FY 2023 E5011 MAJOR CALIBER GUN MODS 3.1.1) MK45 MOD 1, 2, \& 4 KITS: Cost increase from FY22 to FY23 attributed to additional Major Caliber Kit requirements to address obsolescence and reliability in increased number of in-service gun mounts.


Exhibit P-5, Cost Analysis: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 <br> P-1 Line Item Number / Title: 4217 / Gun Mount Mods

Date: April 2022

## Item Number / Title [DODIC]:

1 / Gun Mount Mods

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

| Cost Elements | Prior Years |  |  | FY 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| PRODUCTION SUPT <br> (Surface Warfare) ${ }^{(6)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1.7) MK38 UPGRADE KITS ${ }^{(7)}$ | - | - | 41.647 | - | - | 0.000 | - | - | 13.188 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 2.1.8) MK38 UPGRADE KIT INSTALL ${ }^{(8)}$ | - | - | 10.100 | - | - | 1.800 | - | - | 4.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 2.1.9) MK38 UPGRADE LOGISTICS SUPT ${ }^{(9)}$ | - | - | 14.208 | - | - | 0.420 | - | - | 1.451 | - | - | 1.480 | - | - | 0.000 | - | - | 1.480 |
| 2.1.10) MK38 BACKFIT KIT | - | - | 12.534 | - | - | 8.365 | - | - | 16.249 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| $\begin{aligned} & \text { 2.1.11) MK38 TECH } \\ & \text { REFRESH }{ }^{(10)} \\ & \hline \end{aligned}$ | - | - | 2.112 | - | - | 3.265 | - | - | 3.919 | - | - | 4.569 | - | - | 0.000 | - | - | 4.569 |
| $\begin{aligned} & \text { 2.1.12) MK38 MOD } 4 \\ & \text { GWs }^{(11)} \end{aligned}$ | - | - | 11.600 | - | - | 0.000 | - | - | 0.000 | - | - | 33.968 | - | - | 0.000 | - | - | 33.968 |
| 2.1.13) MK38 MOD 4 GWS INSTALL PLANNING ${ }^{(12)}$ | - | - | 0.431 | - | - | 0.501 | - | - | 0.000 | - | - | 1.925 | - | - | 0.000 | - | - | 1.925 |
| 2.1.14) MK38 MOD 4 GWS INSTALLATION | - | - | 0.000 | - | - | 0.000 | - | - | 3.120 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| 2.1.15) MK46 GWS $\text { KITS }^{(13)}$ | - | - | 20.530 | - | - | 2.750 | - | - | 3.363 | - | - | 3.553 | - | - | 0.000 | - | - | 3.553 |
| 2.1.16) MK46 GWS <br> KIT INSTALL ${ }^{(14)}$ | - | - | 2.996 | - | - | 0.684 | - | - | 0.754 | - | - | 0.826 | - | - | 0.000 | - | - | 0.826 |
| Subtotal: Recurring Cost | - | - | 151.762 | - | - | 22.187 | - | - | 49.355 | - | - | 68.102 | - | - | 0.000 | - | - | 68.102 |
| Subtotal: Hardware - E5006 MINOR CALIBER GUN MODS Cost | - | - | 151.762 | - | - | 22.187 | - | - | 49.355 | - | - | 68.102 | - | - | 0.000 | - | - | 68.102 |

## MODS Cost

Hardware - E5011 MAJOR CALIBER GUN MODS Cost

| $\begin{aligned} & \text { 3.1.1) MK45 MOD 1, } 2 \\ & \& 4 \text { KITS }^{(15)} \end{aligned}$ | - | - | 50.871 | - | - | 5.882 | - | - | 5.784 | - | - | 6.083 | - | - | 0.000 | - | - | 6.083 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3.1.2) MK45 MOD 1 , 2 \& 4 INSTALL / ILS / PROD SUPT | - | - | 27.860 | - | - | 3.142 | - | - | 3.142 | - | - | 3.142 | - | - | 0.000 | - | - | 3.142 |
| $\begin{aligned} & \text { 3.1.3) MK45 GM CG } \\ & \text { MOD } \\ & \hline \end{aligned}$ | - | - | 0.000 | - | - | 14.309 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Recurring Cost | - | - | 78.731 | - | - | 23.333 | - | - | 8.926 | - | - | 9.225 | - | - | 0.000 | - | - | 9.225 |


| Exhibit P-5, Cost Analysis: PB 2023 Navy |  |
| :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |


| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: 4217 / Gun Mount Mods |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / Gun Mount Mods |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | 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 2021 |  |  | FY 2022 |  |  | FY 2023 Base |  |  | FY 2023 OCO |  |  | FY 2023 Total |  |  |
| Cost Elements | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Subtotal: Hardware - E5011 MAJOR CALIBER GUN MODS Cost | - | - | 78.731 | - | - | 23.333 | - | - | 8.926 | - | - | 9.225 | - | . | 0.000 | - | - | 9.225 |

Hardware - E5CON BALLISTIC SHIELDING Cost
Non Recurring Cost

| 4.1.1) BALLISTIC SHIELDING HARDWARE/ INSTALLATION | - | - | 0.000 | - | - | 33.100 | - | - | 25.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Non Recurring Cost | - | - | 0.000 | - | - | 33.100 | - | - | 25.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Hardware E5CON BALLISTIC SHIELDING Cost | - | - | 0.000 | - | - | 33.100 | - | - | 25.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Gross/Weapon System Cost | - | - | 270.826 | - | - | 82.328 | - | - | 87.123 | - | - | 81.325 | - | - | 0.000 | - | - | 81.325 |

## Footnotes:

 reliability in increased number of in-service gun mounts.

 (JUONS CC-0558).
 KIT.

 installation quantities are based on an 18 month production lead time and ship availability schedules. This effort supports procurement quantities to support seventeen (17) ships.


 these kits are procured in FY22 under Cost Element 2.1.10 [MK38 BACKFIT KIT]. This effort supports procurement quantities to support six (6) ships.

 78, CVN 71, CVN 69.
 simultaneous installations on CVN 78, CVN 71, and CVN 69.


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| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  | P-1 Line Item Number / Title: 4217 / Gun Mount Mods |  |  |  |  |  | Modification Number / Title: <br> 1 / E5006 MINOR CALIBER GUN MODS MK38 GUN KITS |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2023 \\ & \text { Total } \end{aligned}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 514.583 | 19.740 | 6.652 | 0.400 | 0.000 | 0.400 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 541.375 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 514.583 | 19.740 | 6.652 | 0.400 | 0.000 | 0.400 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 541.375 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 514.583 | 19.740 | 6.652 | 0.400 | 0.000 | 0.400 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 541.375 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Minor Caliber Gun Mounts (MK38 MOD or MK46 MOD ) for United States Navy ships (USN) are installed on AS, CVN, CG, DDG, LCS, LPD, LSD, LHA, LHD, PC, LCC, MK VI Patrol Boats and land based training/test units. The gun mounts provide an anti-surface warfare and anti-air warfare capability for outfitted ships. Funds procure ORDALTs kits, and provide ILS and production engineering for system improvements that affect safety, cybersecurity reliability and maintainability.
[MINOR CAL. GUN MK38 GUN KITS (Surface Warfare) Standard]


## UNCLASSIFIED



## Exhibit P-3a, Individual Modification: PB 2023 Navy

| Appropriation / Budget Activity / Budget Sub Activity: <br> $1507 \mathrm{~N} / 04 / 2$ | P-1 Line Item Number / Title: <br> $4217 / G u n ~ M o u n t ~ M o d s ~$ |
| :--- | :--- |

MDAP/MAIS Code:
ID Code (A=Service Ready, B=Not Service Ready) :
Modification Item 1 of 1: E5006 MINOR CALIBER GUN MODS MK38 GUN KITS

## Installation Information

Method of Implementation: [none specified]:: Installation Name: MINOR CAL. GUN MK38 GUN KITS (Surface Warfare) Large Deck

|  | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 43/59.061 | 9/12.460 | 1 - | 1 | 1 - | 1 | - 1- | - 1- | 1 | 1 | 0/0.000 | $52 / 71.521$ |
| FY 2021 | 1 - | - 1 - | 1 | 1 - | - 1 - | - 1 - | 1 | 1 | 1 | -1 | - 1 | - 1 |
| FY 2022 | 1 | 1 | 1 | 1 | 1 - | 1 - | 1 | 1 | 1 | - 1 - | - 1 | 1 |
| FY 2023 | 1 - | - 1 - | 1 | 1 | - 1 - | - 1 - | - 1 | - 1 | 1 | - 1 - | - 1 | - 1 |
| FY 2024 | - 1 - | - 1 - | 1 | 1 | - 1 - | - 1 - | 1 | 1 | 1 - | 1 - | - 1 | 1 |
| FY 2025 | - 1 - | - 1 - | 1 - | 1 | - 1 - | - 1- | 1 - | - 1- | 1 - | - 1 - | - 1 - | - 1 - |
| FY 2026 | - 1 - | - 1 - | 1 - | 1 - | - 1 - | 1- | 1 - | - 1- | 1 - | - 1 - | - 1 - | 1- |
| FY 2027 | - 1 - | 1 - | 1 - | 1 - | - 1 - | 1- | 1 - | 1 - | 1 - | - 1 - | - 1 - | 1 - |
| To Complete | - 1 - | - 1 - | 1 | 1 | - 1 - | - 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | 1 - |
| Total | 43/59.061 | 9/12.460 | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | 1 - | $0 / 0.000$ | $52 / 71.521$ |

## Installation Schedule

|  | PYS | FY 2021 |  |  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | 43 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 52 |
| Out | 39 | 4 | - | - | - | - | - | 4 | - | 1 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 52 |

Method of Implementation: [none specified]:: Installation Name: MINOR CAL. GUN MODS MK38 GUN KITS (Expeditionary Warfare)

| Installation Cost | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 10/4.782 | 1 - | - 1 - | 1- | 1 - | 1- | 1 - | - 1- | - 1- | - 1 | 0/0.000 | 10/4.782 |
| FY 2021 | 1 - | 1 - | - 1 - | 1 - | 1 | 1 - | 1 | 1 - | - 1 - | - 1 | 1 - | 1 |
| FY 2022 | 1 - | 1 - | - 1- | - 1- | 1 - | 1- | 1 - | 1 - | - 1 - | - 1 - | - 1 - | 1 |
| FY 2023 | - 1 - | - 1 - | - 1 - | - 1- | 1 - | 1 - | - 1 - | - 1- | - 1 - | - 1- | 1 - | 1 |
| FY 2024 | - 1 - | 1 - | - 1- | - 1- | 1 - | 1 - | - 1 | - 1 - | - 1 - | - 1 | - 1 | 1 |
| FY 2025 | 1 - | 1 - | - 1 - | - 1- | 1 - | 1 - | -1 | - 1 - | - 1 - | - 1 | - 1 | 1 |
| FY 2026 | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1- | - 1- | - 1- | - 1 - | - 1- | - 1 | 1 |
| FY 2027 | 1 - | - 1 - | - 1 - | - 1- | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 4217 / Gun Mount Mods |  |  |  |  |  |  |  |  |  |  |  | Modification Number / Title: <br> 1 / E5006 MINOR CALIBER GUN MODS MK38 GUN KITS |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: E5006 MINOR CALIBER GUN MODS MK38 GUN KITS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Method of Implementation: [none specified]:: Installation Name: MINOR CAL. GUN MODS MK38 GUN KITS (Expeditionary Warfare) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Cost |  |  |  |  |  | Prior Years |  |  | FY 2021 |  | FY 2022 |  |  |  | $\begin{aligned} & \text { FY } 2023 \\ & \text { OCO } \end{aligned}$ |  | $\begin{aligned} & \text { FY } 2023 \\ & \text { Total } \end{aligned}$ |  | FY 2024 |  | FY 2025 |  |  | FY 2026 |  | FY 2027 |  | To Complete |  | Total |  |
|  |  |  |  |  |  | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |  |  | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ |  | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |  | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |  |  | Qty (Each) I <br> Total Cost (\$ M) |  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |  | Qty (Each) I <br> Total Cost (\$ M) |  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |  |
| To Complete |  |  |  |  |  | - 1- |  |  | Total Cost ( 1 M) |  | $\begin{aligned} & \hline-1- \\ & \hline-1- \\ & \hline \end{aligned}$ |  |  | 1 - | - 1 - |  | - 1- |  | - 1 - |  | - 1 - |  |  | - 1 - |  | - 1 - |  | $\begin{aligned} & \hline-1- \\ & \hline 0 / 0.000 \end{aligned}$ |  | $\frac{-1-}{10 / 4.782}$ |  |
| Total |  |  |  |  |  |  | 101 |  | - |  |  |  |  | 1 - |  | 1 - |  | -1. |  | - 1- |  | -1- |  |  | - |  | 1 - |  |  |  |  |
| Installation Schedule |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PYS |  | FY 2021 |  |  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | TC | Tot |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | 3 Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | 4 Q1 | Q2 | Q3 | Q4 |  |  |
| In | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 |
| Out | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 |

## Footnotes:

${ }^{(16)}$ Increased FY21 MK38 Gun Kit costs attributed to new FY21 contract award and reduced quantity of mounts. Increased FY21 standard deck installation quantities attributed to ship availability schedule ships. FY22 standard deck installation cost decrease attributed to modification of new construction DDG 51 design, that resulted in reduced ship alteration and installation costs.
${ }^{(17)}$ Installations for large deck include CVN installations. CVN installation costs are higher than the amphibious ships due to longer cable runs, larger sponsons, and floating crane requirements. Increased FY21 Large deck installation quantities attributed to ship availability schedule ships.

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 2: Modification
of Guns And Gun Mounts

## P-1 Line Item Number / Title:

4221 / LCS Module Weapons

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: N |  |  | ther Relat | Program El | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2023 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | 292 | 32 | 14 | 30 | - | 30 | 18 | 12 | 10 | 10 | - | 418 |
| Gross/Weapon System Cost (\$ in Millions) | 35.734 | 4.253 | 2.121 | 4.580 | 0.000 | 4.580 | 3.257 | 2.454 | 2.257 | 2.249 | 64.663 | 121.568 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 35.734 | 4.253 | 2.121 | 4.580 | 0.000 | 4.580 | 3.257 | 2.454 | 2.257 | 2.249 | 64.663 | 121.568 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 35.734 | 4.253 | 2.121 | 4.580 | 0.000 | 4.580 | 3.257 | 2.454 | 2.257 | 2.249 | 64.663 | 121.568 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | 0.00 |
| Gross/Weapon System Unit Cost (\$ in Dollars) | 122,376.71 | 132,906.25 | 151,500.00 | 152,666.67 | - | 152,666.67 | 180,944.44 | 204,500.00 | 225,700.00 | 224,900.00 | - | 290,832.54 |

## Description:

 MP) will employ these missiles while escorting High Value Units (HVUs) through choke points and other strategic waterways or while conducting littoral operations.

Other Related Budgets: BLIs: OPN 1603 LCS SUW Mission Modules, RDT\&E 0603596N LCS Mission Modules
[P5 / Longbow Hellfire Missile]: The Longbow Hellfire missile is a fire and forget, millimeter-wave seeker missile for autonomous engagement. The Navy procures replacement in kind missiles from the Army inventory, completes shipboard modifications and certifications to deliver to the Fleet.
[P5 / Consulting Services]: Provides program management support, engineering and technical support, studies, analysis and evaluation on mission module systems.

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*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 2023 procurements of Longbow Hellfire missiles supports LCS SUW Division Ships deploying in FY 2025. The Navy's inventory objective is 845 missiles.

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / LCS Module Weapons |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  | P-1 Line Item Number / Title: 4221 / LCS Module Weapons |  |  |  |  |  |  |  |  |
| Cost Elements | O C O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost <br> (\$) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) Longbow Hellfire Missile ${ }^{(\dagger)}$ |  | 2019 | US Army / Huntsville, AL | MIPR | JAMS PO Huntsville | May 2019 | Apr 2020 | 90 | 117,490.91 | $Y$ |  |  |
| 1.1.1) Longbow Hellfire Missile ${ }^{(\dagger)}$ | $\checkmark$ | 2020 | US Army / Huntsville, AL | MIPR | JAMS PO Huntsville | Mar 2020 | Feb 2021 | 90 | 119,583.00 | Y |  |  |
| 1.1.1) Longbow Hellfire Missile ${ }^{(\dagger)}$ |  | 2021 | US Army / Huntsville, AL | MIPR | JAMS PO Huntsville | Dec 2020 | Nov 2021 | 32 | 122,281.25 | Y |  |  |
| 1.1.1) Longbow Hellfire Missile ${ }^{(\dagger)}$ |  | 2022 | US Army / Huntsville, AL | MIPR | JAMS PO Huntsville | Dec 2021 | Nov 2022 | 14 | 124,845.45 | Y |  |  |
| 1.1.1) Longbow Hellfire Missile ${ }^{(\dagger)}$ |  | 2023 | US Army / Huntsville, AL | MIPR | JAMS PO Huntsville | Mar 2023 | Feb 2024 | 30 | 127,345.45 | $Y$ |  |  |

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

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  |  | P-1 Line Item Number / Title: <br> 4221 I LCS Module Weapons |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / LCS Module Weapons |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  |  | ALT Prior to Oct 1 | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 |
| 1 | US Army - Huntsville, AL | 10 | 110 | 168 | 0 | 0 | 11 | 11 | 0 |  | 11 | 11 |

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

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 2: Modification
of Guns And Gun Mounts

## P-1 Line Item Number / Title:

4225 / Airborne Mine Neutralization Systems of Guns And Gun Mounts

| 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 2021 | FY 2022 | FY 2023 Base | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 176.370 | 6.662 | 14.822 | 8.710 | 0.000 | 8.710 | 14.338 | 11.634 | 10.552 | 10.636 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 176.370 | 6.662 | 14.822 | 8.710 | 0.000 | 8.710 | 14.338 | 11.634 | 10.552 | 10.636 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 176.370 | 6.662 | 14.822 | 8.710 | 0.000 | 8.710 | 14.338 | 11.634 | 10.552 | 10.636 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 0.177 | 0.244 | 0.255 | - | 0.255 | 0.145 | 0.102 | 0.104 | 0.106 | Continuing | Continuing |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:




 identified/classified mine-like objects are re-acquired and neutralized using explosive devices.


 and WPN for the AMNS Archerfish destructor.
 SEAFOX (SMNS-SF). Airborne combat systems are deployed from the MH-53E SEA DRAGON helicopters. Surface combat systems are deployed from the MCM-1 Avenger Class ships.

*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 2023 funding request was adjusted by $\$ 3.389 \mathrm{M}$ to account for the availability of prior year execution balances.

 demilitarization and disposal plan in preparation for ship decommissioning.


## Remarks:

[Hardware] FY 2023 funding supports the procurement of 22 Archerfish destructors and associated engineering, integrated logistics support, and support equipment to support the deployment inventory objective requirements.
[Support Cost] Increases from FY 2022 to FY 2023 are associated with increased material costs and future economic uncertainty associated with the COVID-19 global pandemic.

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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 | P-1 Line Item Number / Title: 4225 / Airborne Mine Neutralization Systems | Item Number / Title [DODIC]: <br> 1 / ARCHERFISH Mine Neutralization Combat Rounds |
| ID Code (A=Service Ready, B=Not Service Ready) : |  | MDAP/MAIS Code: |
| $\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a |  |  |
| Footnotes: <br> ${ }^{(1)}$ The AMNS WPN unit cost increase from FY 2022 to FY 2023 reflect and future economic uncertainty associated with the COVID-19 global par neutralizer. | as negotiated in BAE Contract awarded in August 2020. <br> ic. Unit costs in FY 2023 are based on stepladder pricing | sed prior to award due to increased material cos ment. Destructor was previously referred to as |

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  | P-1 Line Item Number / Title: <br> 4225 / Airborne Mine Neutralization Systems |  |  |  | Item Number / Title [DODIC]: <br> 1 / ARCHERFISH Mine Neutralization Combat Rounds |  |  |  |  |
| 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 <br> (s) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.1) AN/ASQ-235 - AMNS -MH-60S Destructor ${ }^{(\text {( })}$ |  | 2019 | BAE / Portsmouth, UK | SS/FP | NAVSEA | Aug 2020 | Aug 2022 | 63 | 144,211.94 | Y |  | Aug 2019 |
| 1.1.1) AN/ASQ-235 - AMNS - <br> MH-60S Destructor ${ }^{(+)}$ |  | 2020 | BAE / Portsmouth, UK | SS/FP | NAVSEA | Aug 2020 | Aug 2022 | 38 | 148,736.84 | Y |  | Aug 2019 |
| 1.1.1) AN/ASQ-235 - AMNS - <br> MH-60S Destructor ${ }^{(\text {( })}$ |  | 2021 | BAE / Portsmouth, UK | SS/FP | NAVSEA | Jun 2021 | Jun 2023 | 27 | 161,148.15 | Y |  | Aug 2019 |
| 1.1.1) AN/ASQ-235 - AMNS -MH-60S Destructor ${ }^{(\text {( })}$ |  | 2022 | BAE / Portsmouth, UK | SS/FP | NAVSEA | Jun 2022 | Jun 2024 | 90 | 138,055.56 | Y |  | Aug 2019 |
| 1.1.1) AN/ASQ-235 - AMNS - <br> MH-60S Destructor ${ }^{(\dagger)}$ |  | 2023 | BAE / Portsmouth, UK | SS/FP | NAVSEA | Jun 2023 | Jun 2025 | 22 | 300,454.54 | Y |  | Aug 2019 |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 Item Number / Title [DODIC]: <br> 1 / ARCHERFISH Mine Neutralization Combat Rounds |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 4225 / Airborne Mine Neutralization Systems |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \\ & \hline \end{aligned}$ |
|  |  |  |  | ${ }^{\text {ACCEPT }}$ |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|} \hline 0 & \mathrm{~F} \\ \mathrm{c} & \mathrm{R} \\ \mathrm{o} & \# \\ \hline \end{array}$ | FY | SERVICE | PROC OTY | PRIOR TO 1 OCT 2019 | $\begin{gathered} \mathrm{BAL} \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N O v | D <br> E <br> C | J A N | F E B | M A R | A <br>  <br> $\mathbf{P}$ <br> $\mathbf{R}$ | M A Y | J u | $\mathrm{J}_{\mathrm{u}}^{\mathrm{u}}$ | A U G | S E P | O c T | N | D E C C | J A N | F E B | M <br>  <br> R | A <br> $\mathbf{P}$ <br> $\mathbf{R}$ | M A Y | J U N | J u L | A U G | S E P |  |
| 1.1.1) AN/ASQ-335-AMNS - MH-60S Destructor ${ }^{(1)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 499 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2019 | NAVY | 63 | 0 | 63 |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - |  | - |  |  | - | 63 |
| 1 | 2020 | NAVY | 38 | 0 | 38 |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - |  |  | - | 38 |
| 1 | 2021 | NAVY | 27 | 0 | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | 27 |
| 1 | 2022 | NAVY | 90 | 0 | 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 90 |
| 1 | 2023 | NAVY | 22 | 0 | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 22 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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1.1.1) AN/ASQ-235 - AMNS - MH-60S Destructor ${ }^{(1)}$

| Prior Years Deliveries: 499 |  |  |
| :--- | :--- | :--- | :--- |
|  | 1 |  |


| 1 | 2019 | NAVY | 63 | 0 | 63 | - | - | - | - | - | - | - | - | - | - | 10 | 10 | 10 | 10 | 10 | 10 | 3 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2020 | NAVY | 38 | 0 | 38 | - | - | - | - | - | - | - | - | - | - | 10 | 10 | 10 | 8 |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2021 | NAVY | 27 | 0 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | 10 | 7 |  |  |
| 1 | 2022 | NAVY | 90 | 0 | 90 |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 90 |
| 1 | 2023 | NAVY | 22 | 0 | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | 22 |
|  |  |  |  |  |  | O <br> $\mathbf{c}$ <br> $\mathbf{T}$ | $\begin{aligned} & \hline \mathbf{N} \\ & \mathbf{o} \\ & \mathbf{v} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \mathbf{A} \\ & \mathbf{N} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathbf{A} \\ & \mathbf{P} \\ & \mathbf{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathbf{M} \\ & \mathbf{A} \\ & \mathbf{Y} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \hline \mathbf{A} \\ & \mathbf{U} \\ & \mathbf{G} \end{aligned}$ | $\begin{aligned} & \hline \mathbf{S} \\ & \mathbf{E} \\ & \mathbf{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathbf{N} \\ & \mathbf{o} \\ & \mathrm{V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \\ & \hline \end{aligned}$ | A <br>  <br> $\mathbf{P}$ <br> $\mathbf{R}$ | M A Y | J U N | J | A <br> U <br> G | S E $\mathbf{P}$ |  |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: April 2022 <br> Item Number / Title [DODIC]: <br> 1 / ARCHERFISH Mine Neutralization Combat Rounds |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 4225 / Airborne Mine Neutralization Systems |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  | nda | ar 2 |  |  |  |  |  |  |  |  |  | ar Y |  |  |  |  |  |
|  | [ | FY | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { QTY } \end{aligned}$ | TO 1 <br> OCT <br> 2023 | $\begin{gathered} \text { SAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \\ \hline \end{gathered}$ | O <br> c <br> T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br> P <br> R | M | J U N | J | A | S | O c T | N | c | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A $\mathbf{p}$ R | M A Y | J ${ }_{\text {J }}^{\text {u }}$ | ${ }_{\text {J }}$ | A | S E P |  |

1.1.1) AN/ASQ-235 - AMNS - MH-60S Destructor ${ }^{(1)}$


|  | 1 | 2019 | NAVY | 63 | 63 |
| ---: | :--- | :--- | ---: | ---: | ---: |
|  | 1 | 2020 | NAVY | 38 | 38 |
|  | 1 | 2021 | NAVY | 27 | 27 |
|  | 1 | 2022 | NAVY | 90 | 0 |
|  | 1 | 2023 | NAVY | 22 | 0 |

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| Exhibit P-21, Production Schedule: PB 2023 Navy |  |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 |  |  |  |  | P-1 Line Item Number / Title: 4225 / Airborne Mine Neutralization Systems |  |  |  |  | Item Number / Title [DODIC]: <br> 1 / ARCHERFISH Mine Neutralization Combat Rounds |  |  |
| $\begin{array}{\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2023 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2023 | 1-8-5 For 2023 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | BAE - Portsmouth, UK | 25 | 480 | 1,440 | 0 | 9 | 24 | 33 |  |  | 24 | 33 |

"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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| Exhibit P-5, Cost Analysis: PB 2023 Navy |  | Date: April 2022 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 | P-1 Line Item Number / Title: 4225 / Airborne Mine Neutralization Systems | Item Number / Title [DODIC]: <br> 2 I SEAFOX Mine Neutralization Combat <br> Rounds |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: |  |
| Footnotes: <br>  in preparation for ship decommissioning. |  |  |

(2) In FY 2023, support costs are required to procure Inert and Training support equipment in support of the SEAFOX system. The increase in funding will be used to develop a demilitarization and disposal pla in preparation for ship decommissioning.

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| Exhibit P-5a, Procurement History and Planning: PB 2023 Navy |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: $1507 \mathrm{~N} / 04 / 2$ |  |  |  | P-1 Line Item Number / Title: 4225 / Airborne Mine Neutralization Systems |  |  |  | Item Number / Title [DODIC]: <br> 2 / SEAFOX Mine Neutralization Combat Rounds |  |  |  |  |
| Cost Elements | O | FY | Contractor and Location | $\begin{array}{\|c\|} \hline \text { Method/Type } \\ \text { or } \\ \text { Funding Vehicle } \\ \hline \end{array}$ | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost <br> (8) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 1.1.3) Battery Replacement |  | 2019 | NSWC Indian Head / Indian Head MD | WR | NAVSEA | Dec 2018 | Jun 2019 | 70 | 8,500.00 | Y |  |  |
| 1.1.3) Battery Replacement |  | 2020 | NSWC Indian Head / Indian Head MD | WR | NAVSEA | Mar 2020 | Sep 2020 | 33 | 8,700.00 | N |  |  |
| 1.1.3) Battery Replacement |  | 2021 | NSWC Indian Head / Indian Head MD | WR | NAVSEA | Mar 2021 | Sep 2021 | 40 | 9,300.00 | N |  |  |
| 1.1.3) Battery Replacement |  | 2022 | NSWC Indian Head / Indian Head MD | WR | NAVSEA | Mar 2022 | Sep 2022 | 50 | 9,500.00 | N |  |  |

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| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy |  |  |  |  |  |  |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 1507N: Weapons Procurement, Navy / BA 04: Other Weapons / BSA 4: Other |  |  |  |  | P-1 Line Item Number / Title: 4500 / Cancelled Account Adjustments |  |  |  |  |  |  |  |
|  |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { Total } \end{gathered}$ | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 4.952 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 4.952 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 4.952 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 4.952 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 4.952 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 4.952 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line finances cancelled account adjustments.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Navy
Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 06: Spares and Repair Parts / BSA 1:
Spares And Repair Parts

## P-1 Line Item Number / Title:

6120 / Spares and Repair Parts

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | ents for Cod | B Items: N |  |  | Other Rela | Program E | ents: $\mathrm{N} / \mathrm{A}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2021 | FY 2022 | $\begin{gathered} \text { FY } 2023 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2023$ <br> Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 142.053 | 155.919 | 170.041 | 0.000 | 170.041 | 169.975 | 172.236 | 174.315 | 176.378 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 142.053 | 155.919 | 170.041 | 0.000 | 170.041 | 169.975 | 172.236 | 174.315 | 176.378 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 142.053 | 155.919 | 170.041 | 0.000 | 170.041 | 169.975 | 172.236 | 174.315 | 176.378 | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:







 telemetry equipment

Navy surface ordnance guns, equipment, and materials consist of the following:

- Naval Strike Missile (NSM)
- Small Arms and Weapons
- Gun Mount Modifications
- Airborne Mine Neutralization Systems
- Standard Missile
- Rolling Airframe Missile (RAM)
- Evolved Sea Sparrow Missile (ESSM)
- 6T COG (Underwater Mines \& Components)
- Close-In Weapons System (CIWS)
- Coast Guard Weapons (MK-110, MK-160 Gun Control System, MK-38 Machine Gun System)

ASW weapons and support equipment consist of the following:

- MK-54 Torpedo
- MK-48 Torpedo

Exhibit P-40, Budget Line Item Justification: PB 2023 Navy

## Appropriation / Budget Activity / Budget Sub Activity:

1507N: Weapons Procurement, Navy / BA 06: Spares and Repair Parts / BSA 1: Spares And Repair Parts
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

- ASW Range Support Program (Underwater Tracking Range Equipment (UTRE) Program \& MK28 Service Weapon Target Test (SWTT)

Program)

- MK-39 MOD 3 Expendable Mobile ASW (EMATT)
- MK-48 Common Broadband Advanced Sonar System (CBASS) Kits

NAVAIR-managed air-launched weapons consist of the following:

- Anti-ship, anti-radar, anti-armor, air-to-air, and air-to-surface weapons including Advanced Anti-Radiation Guided Missile
(AARGM, AARGM-ER)
- High Speed Anti-Radiation Missile (HARM)
- Harpoon (air/surface/sub-surface)
- Hellfire, Joint Standoff Weapons (JSOW)
- Air-to-Surface Guided Missiles (AGM-65)
- Long Range Anti-Ship Missile (LRASM)
- Airborne Intercept Missile (AIM-7, AIM-9, AIM-120)
- Standard Land Attack Missiles (SLAM-ER)
- Small Diameter Bomb Increment (SDB II)
- Joint Air-to-Ground Missiles (JAGM)
- Miniature Air-Launched Decoy (MALD)
- Other air-launched guided weapons that fall under special access program control.
Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 06: Spares and Repair Parts / BSA 1
Spares And Repair Parts


## P-1 Line Item Number / Title:

6120 / Spares and Repair Parts Spares And Repair Parts


## 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:

FY 2023 funding request was reduced by $\$ 1.661$ million to account for the availability of prior year execution balances.
 onboard repair parts, interim depot spares, and installation and checkout spares in order to sustain the Navy's mission readiness and information dominance posture.

Initial Spares

FY2023 Program Increase Justifications:
 Capability.

 standup of NAWMU-1 for JAGM maintenance capability.
 Testing.
 Missile from 32 to 36 units in FY23.
 operational capability.

3117W / Spares for MK-48 (Initial): Increase of $\$ 1.523$ million due to increased unit cost and quantity for guidance and control sections for MK-48 Mod 7 hardware in FY23.
3215 / Spares for WPN MK-54 Torpedo Mods (Initial): Increase of $\$ 0.206$ million to support the procurement of spares for MK-54 Mod 1 Hardware.


Replenishment Spares

FY2023 Program Increase Justifications:
 100 in FY23.



 Repair, and Overhaul in order to return them to an operational condition.
 FY22 to 1,023 in FY23.
 from 0 in FY22 to 44 in FY23.
 systems.
 Extended Range (QS-ER) mine hardware.
 installed aboard US Coast Guard Navy Type, Navy Owned (NTNO) cutters, fielding more assets to keep pace with operational requirements.

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| Exhibit P-40, Budget Line Item Justification: PB 2023 Navy |  |  | Date: April 2022 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N: Weapons Procurement, Navy / BA 06: Spares and Repair Parts / BSA 1: Spares And Repair Parts | P-1 Lin  <br> 6120 / Repair Parts / BSA 1: P | P-1 Line Item Number / Title: 6120 / Spares and Repair Parts |  |
| ID Code (A=Service Ready, B=Not Service Ready): A Program Elements for Code | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |
| 4217W / Spares for Gun Mount Mods (Replen): Increase of $\$ 0.750$ million due to increased number of MK-110 Gun Mounts, prolonged service life of current assets, fielding more assets to keep pace with <br> 4225 / Spares for Airborne Mine Neutralization Systems (Replen): Increase of $\$ 0.166$ million to procu objective requirements. | lion due to increased number of MK-46 Gun more assets to keep pace with operational re <br> ease of $\$ 0.166$ million to procure ARCHERF | (MOD <br> - MH- | W Weapon Systems, <br> tor Spares to support |

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| Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2023 Navy |  |  | Date: April 2022 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 06 / 1 | P-1 Line Item Number / Title: <br> 6120 / Spares and Repair Parts |  | Title: <br> WPN spares |  |  |  |
| End Item Line Item Number / Name [MDAP/MAIS] | Prior Years (\$ M) | $\begin{gathered} \text { FY } 2021 \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \text { Base } \\ (\$ M) \end{gathered}$ | $\underset{\substack{\text { FY } \\ \hline(\$ M)}}{2023 \text { OCO }}$ | $\begin{gathered} \text { FY } 2023 \text { Total } \\ (S M) \end{gathered}$ |
| Initial |  |  |  |  |  |  |
| BA 02 - Other Missiles |  |  |  |  |  |  |
| 2206 / AMRAAM | - | 8.617 | 6.632 | 6.848 | - | 6.848 |
| 2209 / Sidewinder | - | 1.785 | 2.027 | 1.168 | - | 1.168 |
| 2248 / Joint Air Ground Missile (JAGM) | - | 0.833 | 0.846 | 1.271 | - | 1.271 |
| 2280 / Aerial Targets | - | 2.407 | 1.951 | 2.919 | - | 2.919 |
| 2292 / Naval Strike Missile (NSM) | - | - | 1.358 | 2.841 | - | 2.841 |
| 2327 / AARGM | - | 3.640 | 0.445 | 2.763 | - | 2.763 |
| BA 03 - Torpedoes and Related Equipment |  |  |  |  |  |  |
| 3117 / MK-48 Torpedo | - | - | 1.378 | 2.901 | - | 2.901 |
| 3215 / MK-54 Torpedo Mods | - | 1.404 | 1.288 | 1.494 | - | 1.494 |
| 3225 / MK-48 Torpedo ADCAP Mods | - | 1.398 | 0.244 | 0.000 | - | 0.000 |
| BA 04 - Other Weapons |  |  |  |  |  |  |
| 4129 / Small Arms and Weapons | - | 0.037 | - | 0.000 | - | 0.000 |
| 4206 / Coast Guard Weapons | - | 0.634 | 0.630 | 0.722 | - | 0.722 |
| 4217 / Gun Mount Mods | - | 3.437 | 3.417 | 3.917 | - | 3.917 |
| 4225 / Airborne Mine Neutralization Systems | - | 0.177 | 0.244 | 0.255 | - | 0.255 |
| Subtotal: Initial | - | 24.369 | 20.460 | 27.099 | - | 27.099 |
| Replenishment |  |  |  |  |  |  |
| BA 02 - Other Missiles |  |  |  |  |  |  |
| 2101 / Tomahawk | - | 19.572 | 38.391 | 37.475 | - | 37.475 |
| 2234 / Standard Missile | - | 33.835 | 37.696 | 37.299 | - | 37.299 |
| 2242 / Rolling Airframe Missile (RAM) | - | 4.474 | 10.858 | 13.933 | - | 13.933 |
| 2280 / Aerial Targets | - | 9.987 | 3.466 | 3.430 | - | 3.430 |
| 2307 / Evolved Sea Sparrow Missile (ESSM) | - | 8.143 | 7.831 | 9.043 | - | 9.043 |
| 2326 / Harpoon Mods | - | 2.659 | - | 0.000 | - | 0.000 |
| 9203 / Spares for NAVAIR | - | 16.258 | 13.453 | 16.350 | - | 16.350 |
| BA 03 - Torpedoes and Related Equipment |  |  |  |  |  |  |
| 3141 / ASW Targets | - | 1.668 | 1.339 | 1.808 | - | 1.808 |
| 3215 / MK-54 Torpedo Mods | - | 1.703 | 1.616 | 1.864 | - | 1.864 |
| 3225 / MK-48 Torpedo ADCAP Mods | - | 0.472 | 0.616 | 0.575 | - | 0.575 |
| 3302 / ASW Range Support | - | 0.553 | 0.510 | 0.657 | - | 0.657 |

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| Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2023 Navy |  |  |  |  | Date: April 2022 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 1507N / 06 / 1 | P-1 Line Item Number / Title: 6120 / Spares and Repair Parts |  |  |  | Title: <br> WPN spares |  |
| End Item Line Item Number / Name [MDAP/MAIS] | Prior Years (\$ M) | $\underset{(S M)}{ } \mathbf{F Y} 2021$ | $\begin{gathered} \text { FY } 2022 \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { FY } 2023 \text { Base } \\ (\$ M) \end{gathered}$ | $\underset{(S M)}{ } \mathrm{FY} 2023 \text { OCO }$ | $\begin{gathered} \text { FY } 2023 \text { Total } \\ (\$ M) \end{gathered}$ |
| 6231/6T COG | - | 6.843 | 6.813 | 7.382 | - | 7.382 |
| BA 04 - Other Weapons |  |  |  |  |  |  |
| 4129 / Small Arms and Weapons | - | 0.336 | 0.591 | 0.205 | - | 0.205 |
| 4205 / Close-In Wpns Sys (CIWS) Mods | - | 1.902 | 0.704 | 0.403 | - | 0.403 |
| 4206 / Coast Guard Weapons | - | 0.175 | 0.179 | 0.206 | - | 0.206 |
| 4217 / Gun Mount Mods | - | 7.861 | 10.363 | 11.113 | - | 11.113 |
| 4225 / Airborne Mine Neutralization Systems | - | 1.243 | 1.033 | 1.199 | - | 1.199 |
| Subtotal: Replenishment | - | 117.684 | 135.459 | 142.942 | - | 142.942 |
| Total Cost (Initial + Replenishment) | - | 142.053 | 155.919 | 170.041 | - | 170.041 |

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[^0]:    $\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

[^1]:    ${ }^{(\dagger)}$ indicates the presence of a P-21

[^2]:    ${ }^{(t)}$ indicates the presence of a P-21

[^3]:    ${ }^{(t)}$ indicates the presence of a P-21

