## Department of Defense

Fiscal Year (FY) 2024 Budget Estimates
March 2023


Army
Justification Book Volume 1 of 1
Procurement of W\&TCV, Army
UNCLASSIFIED
Army • Budget Estimates FY 2024 • Procurement
Volume 1 Table of Contents
Introduction and Explanation of Contents ..... Volume 1 - ii
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Line Item Table of Contents (by Appropriation then Line Number) ..... Volume 1-xv
Line Item Table of Contents (Alphabetically by Line Item Title). ..... Volume 1-xviii
Exhibit P-1M, Procurement Programs - Modification Summary ..... Volume 1-xx
Exhibit P-40s ..... Volume 1-1

## Cost Statement

The following Justification Books were prepared at a cost of \$474,495.00: Aircraft (ACFT), Missile (MSLS), Weapons \& Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical \& Support Vehicles, Other Procurement Army (OPA) 2 - Communications \& Electronics, Other Procurement Army (OPA) 3 \& 4 - Other Support Equipment \& Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 5C, Budget Activity 6, Budget Activity 7, and Budget Activity 8.

## PROCUREMENT OF W\&TCV, ARMY

## Appropriation Language

For construction, procurement, production, and modification of weapons and tracked combat vehicles, equipment, including ordnance, spare parts, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefore, for the foregoing purposes, 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; and other expenses necessary for the foregoing purposes, $\$ 3,765,521,000.00$ to remain available for obligation until September 30, 2026.

Fiscal Year (FY) 2024 Overseas Operations Costs funding accounted for in the Base budget total \$17,956,000.00.

FY 2022 includes \$55,564,000.00 in OOC execution. FY 2023 includes \$96,019,000.00 in OOC enacted budget. FY 2024 includes $\$ 17,956,000.00$ for the OOC budget request.

## UNCLASSIFIED

Department of Defense
FY 2024 President's Budget

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

Total Obligational Authority
DoD Component Summary
(Dollars in Thousands)

## Appropriation Summary

Procurement of Weapons and Tracked Combat Vehicles, Army Total Department of the Army

Grand Total Department of Defense

| FY 2022 <br> Actuals | FY 2023 Less Supplementals Enactment | FY 2023 <br> Supplementals Enactment | FY 2023 Total Enactment | FY 2024 Request |
| :---: | :---: | :---: | :---: | :---: |
| 5,252,894 | 4,505,157 |  | 4,505,157 | 3,765,521 |
| 5,252,894 | 4,505,157 |  | 4,505,157 | 3,765,521 |
| 5,252,894 | 4,505,157 |  | 4,505,157 | 3,765,521 |

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

## UNCLASSIFIED

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                    Department of the Army
        FY 2024 President's Budget
Exhibit P-1 FY 2024 President's Budget
    Total Obligational Authority
            Army Summary
    (Dollars in Thousands)
```

| Appropriation Summary | FY 2022 <br> Actuals | Supplementals Enactment | Supplementals Enactment ${ }^{*}$ | FX 2023 Total Enactment | FY 2024 <br> Request |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement of Weapons and Tracked Combat Vehicles, Army | 5,252,894 | 4,505,157 |  | 4,505,157 | 3,765,521 |
| Total Department of the Army | 5,252,894 | 4,505,157 |  | 4,505,157 | 3,765,521 |

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law ll7-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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## Department of the Army

FY 2024 President's Budget
Exhibit P-1 FY 2024 President's Budget
Total Obligational Authority
2033A BA Summary
(Dollars in Thousands)

| Appropriation: Procurement of Weapons and Tracked Combat Vehicles, Army | FY 2022 <br> Actuals | FY 2023 Less Supplementals Enactment | FY 2023 <br> Supplementals <br> Enactment' | FY 2023 Total <br> Enactment | FY 2024 Request |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Budget Activity |  |  |  |  |  |
| 01. Tracked combat vehicles | 4,846,149 | 3,990,456 |  | 3,990,456 | 3,288,523 |
| 02. Weapons and other combat vehicles | 406,745 | 514,701 |  | 514,701 | 476,998 |
| Total Procurement of Weapons and Tracked Combat Vehicles, Army | 5,252,894 | 4,505,157 |  | 4,505,157 | 3,765,521 |

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

## NCLASSIFIED

## Department of the Army FY 2024 President's Budget <br> Exhibit P-1 FY 2024 President's Budget <br> Total Obligational Authority <br> 2033A Detail <br> (Dollars in Thousands)



## Budget Activity 01: Tracked combat vehicles

Tracked Combat Vehicles

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


## UNCLASSIFIED

## Department of the Army <br> FY 2024 President's Budget <br> Exhibit P-1 FY 2024 President's Budget <br> Total Obligational Authority <br> 2033A Detail <br> (Dollars in Thousands)


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

Department of the Army FY 2024 President's Budget

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

Total Obligational Authority
2033A Detail
(Dollars in Thousands)


## NCLASSIFIED

> Department of the Army FY 2024 President's Budget Exhibit P-1 FY 2024 President's Budget
> Total Obligational Authority
> 2033A Detail
> (Dollars in Thousands)

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law ll7-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

## NNCLASSIETED

## Department of the Army

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

## Total Obligational Authority

2033A Detail
(Dollars in Thousands)


Mod of Weapons and Other Combat Veh

27 MK-19 Grenade Machine Gun MODS U
28 M777 Mods

0
3,374
18,920

## UNCLASSIFIED

$$
\begin{gathered}
\text { Department of the Army } \\
\text { FY } 2024 \text { President's Budget } \\
\text { Exhibit p-1 FY } 2024 \text { President's Budget } \\
\text { Total Obligational Authority } \\
\text { 2033A Detail } \\
\text { (Dollars in Thousands) }
\end{gathered}
$$

Mar 2023

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

## NCLASSTETED

Department of the Army FY 2024 President's Budget

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

Total Obligational Authority
2033A Detail
(Dollars in Thousands)


## UNCLASSIFIED <br> Army • Budget Estimates FY 2024 • Procurement

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

Appropriation 2033A: Procurement of W\&TCV, Army

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 01 | 10 | 2944G80819 | Armored Multi Purpose Vehicle (AMPV). | Volume 1-1 |
| 2 | 01 | 10 | 4872G84900 | ASSAULT BREACHER VEHICLE (ABV). | Volume 1-10 |
| 3 | 01 | 10 | 7181G80820 | Mobile Protected Firepower. | Volume 1-12 |
| 4 | 01 | 20 | 0363G85200 | Stryker Upgrade.. | Volume 1-24 |
| 5 | 01 | 20 | 1382GZ3300 | BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE. | .Volume 1-41 |
| 6 | 01 | 20 | 1678 GZ2400 | Bradley Program (MOD). | Volume 1-46 |
| 7 | 01 | 20 | 2072GA0400 | M109 FOV Modifications. | Volume 1-65 |
| 8 | 01 | 20 | 2073GZ0410 | Paladin Integrated Management (PIM).. | Volume 1-86 |
| 9 | 01 | 20 | 3700GA0570 | IMPROVED RECOVERY VEHICLE (M88 HERCULES). | Volume 1-96 |
| 10 | 01 | 20 | 4520GZ3250 | Assault Bridge (Mod). | Volume 1-102 |
| 11 | 01 | 20 | $5129 \mathrm{G80571}$ | M88 FOV MODS. | .Volume 1-103 |
| 12 | 01 | 20 | 5225GZ3001 | Joint Assault Bridge....... | Volume 1-104 |
| 13 | 01 | 20 | 6500GA0750 | Abrams Upgrade Program. | Volume 1-112 |
| 14 | 01 | 20 | 6500GA0750 | Abrams Upgrade Program, Advance Procurement.. | . Volume 1-123 |
| 15 | 01 | 20 | 6652GM1900 | VEHICLE PROTECTION SYSTEMS (VPS). | . Volume 1-127 |

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## Army • Budget Estimates FY 2024 • Procurement

Appropriation 2033A: Procurement of W\&TCV, Army

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 16 | 02 | 10 | 0418GN0003 | PERSONAL DEFENSE WEAPON (ROLL). | Volume 1-129 |
| 17 | 02 | 10 | 2472G13000 | M240 Medium Machine Gun ( 7.62 mm ).. | . Volume 1-131 |
| 18 | 02 | 10 | 3736G13101 | MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM.. | Volume 1-133 |
| 19 | 02 | 10 | 5000GB2000 | Machine Gun, Cal . 50 M 2 Roll.. | Volume 1-139 |
| 20 | 02 | 10 | 6580G02200 | Mortar Systems | Volume 1-141 |
| 21 | 02 | 10 | 6659G08100 | LOCATION \& AZIMUTH DETERMINATION SYSTEM (LADS)... | Volume 1-147 |
| 22 | 02 | 10 | $8181 \mathrm{G01501}$ | XM320 Grenade Launcher Module (GLM). | Volume 1-149 |
| 23 | 02 | 10 | 8190G01506 | Precision Sniper Rifle. | Volume 1-155 |
| 24 | 02 | 10 | 8201G13501 | Carbine. | .Volume 1-161 |
| 25 | 02 | 10 | 8205G14510 | Next Generation Squad Weapon... | Volume 1-163 |
| 26 | 02 | 10 | 8635G15325 | Handgun. | .Volume 1-187 |
| 27 | 02 | 20 | 3000GB3000 | MK-19 Grenade Machine Gun MODS. | Volume 1-188 |
| 28 | 02 | 20 | 3005GZ1700 | M777 Mods. | Volume 1-190 |
| 29 | 02 | 20 | 3015GB4000 | M2 50 Cal Machine Gun MODS.. | Volume 1-198 |
| 30 | 02 | 20 | 3181GZ1500 | Sniper Rifles Modifications. | Volume 1-200 |
| 31 | 02 | 20 | 3640GC0401 | M119 Modifications.... | . Volume 1-202 |

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Appropriation 2033A: Procurement of W\&TCV, Army

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 32 | 02 | 20 | 7054G02100 | Mortar Modification. | Volume 1-218 |
| 33 | 02 | 30 | 1862 GL 3200 | Items Less Than \$5.0m (WOCV-WTCV)... | Volume 1-220 |
| 34 | 02 | 30 | 3270GC0050 | Production Base Support (WOCV-WTCV) | Volume 1-222 |

## UNCLASSIFIED <br> Army • Budget Estimates FY 2024 • Procurement

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

| Line Item Title | Line Item Number | Line \# | BA | BSA | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ASSAULT BREACHER VEHICLE (ABV) | 4872G84900 | 2 | 01 |  | Volume 1-10 |
| Abrams Upgrade Program | 6500GA0750 | 13 | 01 | 20. | .Volume 1-112 |
| Abrams Upgrade Program, Advance Procurement | 6500GA0750 | 14 | 01 | 20. | Volume 1-123 |
| Armored Multi Purpose Vehicle (AMPV) | 2944G80819 | 1 | 01 |  | ...Volume 1-1 |
| Assault Bridge (Mod) | 4520GZ3250 | 10 | 01 | 20. | .Volume 1-102 |
| BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE | $1382 \mathrm{GZ3300}$ | 5 | 01 |  | Volume 1-41 |
| Bradley Program (MOD) | 1678 GZ2400 | 6 | 01 |  | Volume 1-46 |
| Carbine | 8201G13501 | 24 | 02 | 10. | .Volume 1-161 |
| Handgun | 8635G15325 | 26 | 02 | 10. | Volume 1-187 |
| IMPROVED RECOVERY VEHICLE (M88 HERCULES) | 3700GA0570 | 9 | 01 | 20. | Volume 1-96 |
| Items Less Than \$5.0m (WOCV-WTCV) | 1862GL3200 | 33 | 02 | 30. | .Volume 1-220 |
| Joint Assault Bridge | 5225GZ3001 | 12 | 01 | 20. | .Volume 1-104 |
| LOCATION \& AZIMUTH DETERMINATION SYSTEM (LADS) | 6659G08100 | 21 | 02 | 10... | Volume 1-147 |
| M109 FOV Modifications | 2072GA0400 | 7 | 01 | 20... | Volume 1-65 |
| M119 Modifications | 3640GC0401 | 31 | 02 | 20. | Volume 1-202 |
| M2 50 Cal Machine Gun MODS | 3015GB4000 | 29 | 02 | 20... | .Volume 1-198 |
| M240 Medium Machine Gun ( 7.62 mm ) | 2472G13000 | 17 | 02 | 10. | .Volume 1-131 |

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| Line Item Title | Line Item Number | Line \# | BA | BSA Page |
| :---: | :---: | :---: | :---: | :---: |
| M777 Mods | 3005GZ1700 | 28 | 02 | 20.................Volume 1-190 |
| M88 FOV MODS | 5129G80571 | 11 | 01 | 20................ Volume 1-103 |
| MK-19 Grenade Machine Gun MODS | 3000GB3000 | 27 | 02 | 20.................Volume 1-188 |
| MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM | 3736G13101 | 18 | 02 | 10.................Volume 1-133 |
| Machine Gun, Cal . 50 M 2 Roll | 5000GB2000 | 19 | 02 | 10.................Volume 1-139 |
| Mobile Protected Firepower | 7181G80820 | 3 | 01 | 10................... Volume 1-12 |
| Mortar Modification | 7054G02100 | 32 | 02 | 20.................Volume 1-218 |
| Mortar Systems | 6580G02200 | 20 | 02 | 10................ Volume 1-141 |
| Next Generation Squad Weapon | 8205G14510 | 25 | 02 | 10................. Volume 1-163 |
| PERSONAL DEFENSE WEAPON (ROLL) | 0418GN0003 | 16 | 02 | 10................. Volume 1-129 |
| Paladin Integrated Management (PIM) | 2073GZ0410 | 8 | 01 | 20..................Volume 1-86 |
| Precision Sniper Rifle | 8190G01506 | 23 | 02 | 10................. Volume 1-155 |
| Production Base Support (WOCV-WTCV) | 3270GC0050 | 34 | 02 | 30................. Volume 1-222 |
| Sniper Rifles Modifications | 3181 GZ1500 | 30 | 02 | 20.................Volume 1-200 |
| Stryker Upgrade | 0363G85200 | 4 | 01 | 20..................Volume 1-24 |
| VEHICLE PROTECTION SYSTEMS (VPS) | 6652GM1900 | 15 | 01 | 20.................Volume 1-127 |
| XM320 Grenade Launcher Module (GLM) | 8181G01501 | 22 | 02 | 10.................Volume 1-149 |

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Army • Budget Estimates FY 2024 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary (Listing by Model)

## Lookup Matrix by Model

| M2 \& M3 Bradley Vehicle Variants |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| GZ2400 | Bradley Program (MOD) | No |


| M109 Howitzer and M992 FAASV/CAT Vehicles |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| GA0400 | M109 FOV Modifications | No |


| M777A2 |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| GZ1700 | M777 Mods | No |


| M119A3 Howitzer |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| GC0401 | M119 Modifications | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Army • Budget Estimates FY 2024 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary (Funding for Modifications)

Funding (\$ M)

| P-3a Modification Title | PYS | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit P-3a |  |  |  |  |  |  |  |  |  |  |
| Bradley Program (MOD) | 6,738.018 | 460.385 | 260.398 | 158.274 | - | 158.274 | 129.907 | 102.738 | 101.136 | 104.154 |
| M109 FOV Modifications | 2,198.238 | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - |
| M777 Mods | 165.045 | 16.576 | 3.374 | 18.920 | - | 18.920 | 20.014 | 2.424 | 1.556 | 1.557 |
| M119 Modifications | 396.741 | - | 2.263 | 13.097 | - | 13.097 | 7.450 | 1.258 | 1.209 | 1.210 |
| Totals (Total Obligation Authority) |  |  |  |  |  |  |  |  |  |  |
| Total Obligation Authority | 9,498.042 | 477.294 | 269.063 | 281.277 | 0.000 | 281.277 | 205.059 | 152.781 | 103.901 | 106.921 |

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## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10:
P-1 Line Item Number / Title:
Tracked Combat Vehicles
2944G80819 / Armored Multi Purpose Vehicle (AMPV)

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0605028A
Line Item MDAP/MAIS Code: 471

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 447 | 0 | 43 | 91 | - | 91 | 88 | 101 | 76 | 96 | 1,801 | 2,743 |
| Gross/Weapon System Cost (\$ in Millions) | 1,494.534 | 950.366 | 380.677 | 554.777 | - | 554.777 | 561.462 | 631.904 | 513.920 | 613.453 | 14,094.908 | 19,796.001 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,494.534 | 950.366 | 380.677 | 554.777 | - | 554.777 | 561.462 | 631.904 | 513.920 | 613.453 | 14,094.908 | 19,796.001 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,494.534 | 950.366 | 380.677 | 554.777 | - | 554.777 | 561.462 | 631.904 | 513.920 | 613.453 | 14,094.908 | 19,796.001 |
| (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) | 3,343.477 | - | 8,852.953 | 6,096.451 | - | 6,096.451 | 6,380.250 | 6,256.475 | 6,762.105 | 6,390.135 | 7,826.157 | 7,216.916 |

## Description:


This line is directly aligned to the Army Next Generation Combat Vehicle Modernization Priority.
 M113 Family of Vehicles by transferring the current M113 Mission Equipment Packages (MEP) to a new Military Vehicle Derivative (MVD) platform.

In total, the AMPV Family of Vehicles will account for approximately 30\% of the Armored Brigade Combat Team's tracked fleet and consists of the following five variants:
 the Mission Command Variant. It will host current Battle Command Systems, future replacements, and upgrades of hardware and software.
 one patient by a medical crew of four.
 medical attendants.
4. General Purpose (GP) Variant: This platform will operate throughout the battle space by conducting re-supply, maintenance, casualty evacuation, and other tasks within the formation.
5. Mortar Carrier (MC) Variant: This platform will provide immediate responsive fire support to conduct fast-paced offensive operations.
6. Procuring AMPV vehicles to support Terrestrial Layered System (TLS) Program for Project Manager (PM) Electronic Warfare and Cyber.

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| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: Tracked Combat Vehicles |  |  |  |  | P-1 Line Item Number / Title: 2944G80819 / Armored Multi Purpose Vehicle (AMPV) |  |  |  |  |  |
| ID Code (A=Service Ready, | Not Service Ready): A | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0605028A |  |  |  |  |
| Line Item MDAP/MAIS Code: 471 |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Army | Quantity | - | 43 | 91 | - | 91 | 88 | 101 | 76 | 96 |
|  | Total Obligation Authority | 950.366 | 380.677 | 554.777 | - | 554.777 | 561.462 | 631.904 | 513.920 | 613.453 |
| Total: <br> Secondary Distribution | Quantity | - | 43 | 91 | - | 91 | 88 | 101 | 76 | 96 |
|  | Total Obligation Authority | 950.366 | 380.677 | 554.777 | - | 554.777 | 561.462 | 631.904 | 513.920 | 613.453 |

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

## Appropriation / Budget Activity / Budget Sub Activity:

## P-1 Line Item Number / Title:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: 2944 G80819 / Armored Multi Purpose Vehicle (AMPV)
Tracked Combat Vehicles
Tracked Combat Vehicles

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0605028A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 471 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | G80819 / Armored Multi Purpose Vehicle (AMPV) | P-5a, P-21 | A |  | 447 / 1,494.534 | 0/950.366 | $43 / 380.677$ | 91/554.777 | 1 | 91/554.777 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | $447 / 1,494.534$ | 0/950.366 | $43 / 380.677$ | 91/554.777 | - 1 - | 91/554.777 |

*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:




 current and future capability gaps in force protection, mobility, reliability, and interoperability across the Spectrum of Conflict.
 economies of scale.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objective (AAO): 2897 vehicles


## Exhibit P-5, Cost Analysis: PB 2024 Army <br> Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 10
## P-1 Line Item Number / Title: 2944G80819 / Armored Multi Purpose Vehicle (AMPV)

## Date: March 2023

## Item Number / Title [DODIC]:

G80819 / Armored Multi Purpose Vehicle (AMPV)

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

## MDAP/MAIS Code:

Army Acquisition Objective (AAO): 2897 vehicles. To date, the AMPV program has 447 production vehicles on contract with BAE Systems.
 President's Budget.

FY 2024 Minimum Sustaining Rate is five 5 per month and the Maximum Sustaining Rate is approximately 16-17 per month.
The Vehicle Manufacturing cost element increased from prior year to $\$ 383.996$ million to procure 91 full rate production vehicles.
The Gov't Furnished Material cost element increased to $\$ 64.769$ million to procure engines, transmissions, and additional parts required to furnish 91 full rate production vehicles.
The Engineering Change Orders cost element of $\$ 21.611$ million addresses user requested changes stemming from Low Rate Initial Production (LRIP) and Initial Operational Testing (IOT).


The Training Device cost element holds consistent at $\$ 1.385$ million to update training devices to the latest vehicle configuration.

 provides fielding team support, training material refinement, initial spare parts to support the Army's fielding plans.
 obsolescence, maintain software, fix issues stemming from test, provide logistics support, and perform problem investigations.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | 43 | 91 | - | 91 |
|  | Total Obligation Authority | 950.366 | 380.677 | 554.777 | - | 554.777 |
| Total: <br> Secondary Distribution | Quantity | 0 | 43 | 91 | - | 91 |
|  | Total Obligation Authority | 950.366 | 380.677 | 554.777 | $\cdot$ | 554.777 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A/01/10 |  |  |  | P-1 Line Item Number / Title: 2944G80819 / Armored Multi Purpose Vehicle (AMPV) |  |  |  | Item Number / Title [DODIC]: <br> G80819 I Armored Multi Purpose Vehicle (AMPV) |  |  |  |  |
| 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 (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Vehicle Manufacturing Contractor ${ }^{(\dagger)}$ | $\checkmark$ | 2022 | BAE Land Systems / York, PA | Option / FPIF | Warren, MI | Feb 2023 | Dec 2024 | 154 | 4,929.630 | N |  |  |
| Vehicle Manufacturing Contractor ${ }^{(\dagger)}$ |  | 2023 | BAE Land Systems / York, PA | Option / FPIF | Warren, MI | Feb 2023 | Oct 2025 | 43 | 6,221.163 | N |  |  |
| Vehicle Manufacturing Contractor ${ }^{(\dagger)}$ |  | 2024 | BAE Land Systems / York, PA | Option / FPIF | Warren, MI | Feb 2024 | Jan 2026 | 91 | 4,219.736 | N |  |  |

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

## Remarks:


The monthly production rate is expected to increase from the 12 vehicles per month demonstrated in Low Rate Initial Production (LRIP) to approximately 16-17 vehicles per month during Full Rate Production (FRP).
 expected at this time.

Additionally, the FY 2024 AMPV quantities are draft and subject to change pending the final FY 2023 Full Rate Production (FRP) contract/final negotiated pricing.

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G80819 / Armored Multi Purpose Vehicle (AMPV) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2944G80819 / Armored Multi Purpose Vehicle (AMPV) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|} \hline & \mathrm{M} \\ \mathrm{~F} & \mathrm{R} \\ \mathrm{C} & \mathrm{R} \\ \hline \end{array}$ | FY | SERVICE | PROC QTY | PRIOR <br> TOCT <br> OCT <br> 2022 | $\begin{array}{\|c\|} \hline \mathrm{BAL} \\ \mathrm{DUE} \\ \mathrm{AS} \text { OF } \\ 1 \text { OCT } \end{array}$ | O | N | D E c | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br>  <br> P <br> R | M | J N | J u L | A U G | S E P | O c T | N | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A Y | J <br> N <br>  | J u L | A | S E P |  |
| Vehicl | e Manu | facturing - Co | tractor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | Years D | eliveries: 447 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\checkmark \checkmark 1$ | 2022 | ARMY | 154 | 0 | 154 |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 154 |
| 1 | 2023 | ARMY | 43 | 0 | 43 |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | 43 |
| 1 | 2024 | ARMY | 91 | 0 | 91 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - |  | - |  | - | - | 91 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\begin{aligned} & \hline F \\ & E \\ & B \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br>  <br> P <br> R | M A Y | J U | ${ }_{\text {J }}^{\text {J }}$ | A | S E E P | O c T | N | D E c c | J A N | F | M A R | A <br> P <br> R <br> R | M ${ }_{\text {M }}^{\text {M }}$ | J | J | A | $\stackrel{\mathrm{S}}{\mathrm{E}}$ |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10 |  |  |  |  | P-1 Line Item Number / Title: <br> 2944G80819 / Armored Multi Purpose Vehicle (AMPV) |  |  |  |  | Item Number / Title [DODIC]: <br> G80819 / Armored Multi Purpose Vehicle (AMPV) |  |  |
| $\begin{array}{\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2024 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2024 | 1-8-5 For 2024 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | 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 | $\begin{gathered} \text { Manufacturing } \\ \text { PLT } \end{gathered}$ | Total After Oct 1 |
| 1 | BAE Land Systems - York, PA | 5 | 10 | 17 | 0 | 10 | 19 | 29 | 0 | 6 | 18 | 24 |

Remarks:
There is no production break planned or expected

The monthly production rate is expected to increase from the 12 vehicles per month demonstrated in Low Rate Initial Production (LRIP) to approximately 16-17 vehicles per month during Full Rate Production (FRP).
FY 2023 production funding procures 43 vehicles.
FY 2024 production funding is estimated to procure 91 vehicles. The FY 2024 Minimum Sustaining Rate is 5 per month and the Maximum Sustaining Rate is approximately $16-17$ per month.
Additionally, the FY 2024 AMPV quantities are draft and subject to change pending the final FY 2023 Full Rate Production (FRP) contract/final negotiated pricing.
" A " in the Delivery Schedule indicates the Contract Award Date.

 thousand). If the maximum quantity is equal or greater than $1,000,000,000$ all quantities are shown in billions (rounded to the nearest million).

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: Tracked Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
4872G84900 I ASSAULT BREACHER VEHICLE (ABV)

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2024$ <br> Total | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 36 | 12 | - | - | - | - | 12 | 12 | 12 | - | 84 |
| Gross/Weapon System Cost (\$ in Millions) | - | 16.454 | 3.852 | - | - | - | - | 10.181 | 10.194 | 10.203 | - | 50.884 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 16.454 | 3.852 | - | - | - | - | 10.181 | 10.194 | 10.203 | - | 50.884 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 16.454 | 3.852 | - | - | - | - | 10.181 | 10.194 | 10.203 | - | 50.884 |
| (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) | - | 457.056 | 321.000 | - | - | - | - | 848.417 | 849.500 | 850.250 | - | 605.762 |

## Description:





 system. The Assault Breacher Vehicle is fabricated at Anniston Army Depot (ANAD).

The Assault Breacher Vehicles' Army Acquisition Objective (AAO) is 201.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 <br> Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 24 | 12 | - | - | - | - | 12 | 12 | 12 |
|  | Total Obligation Authority | 11.864 | 3.852 | - | - | - | - | 10.181 | 10.194 | 10.203 |
| ANG | Quantity | 12 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.590 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 36 | 12 | - | - | - | - | 12 | 12 | 12 |
|  | Total Obligation Authority | 16.454 | 3.852 | - | - | - | - | 10.181 | 10.194 | 10.203 |

## Justification:

There is no FY 2024 budget request for this line.

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

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10:
P-1 Line Item Number / Title:
Tracked Combat Vehicles
7181G80820 / Mobile Protected Firepower

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0604645A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 23 | 29 | 33 | - | 33 | 38 | 37 | 37 | 41 | 113 | 351 |
| Gross/Weapon System Cost (\$ in Millions) | - | 286.977 | 354.708 | 394.635 | - | 394.635 | 558.656 | 569.125 | 590.208 | 620.822 | 1,840.808 | 5,215.939 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 286.977 | 354.708 | 394.635 | - | 394.635 | 558.656 | 569.125 | 590.208 | 620.822 | 1,840.808 | 5,215.939 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 286.977 | 354.708 | 394.635 | - | 394.635 | 558.656 | 569.125 | 590.208 | 620.822 | 1,840.808 | 5,215.939 |
| (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) | - | 12,477.261 | 12,231.310 | 11,958.636 | - | 11,958.636 | 14,701.474 | 15,381.757 | 15,951.568 | 15,142.000 | 16,290.336 | 14,860.225 |

## Description:



 enemy during defensive operations.

 occurred from 4th Quarter (4Q) FY 2020 to early 2nd Quarter (2Q) FY 2022.




The Mobile Protected Firepower Army Acquisition Objective (AAO) is 504 systems.
This program element is directly aligned with the Next Generation Combat Vehicle (NGCV) Modernization Priority.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 23 | 29 | 33 | - | 33 | 14 | 19 | 37 | 28 |
|  | Total Obligation Authority | 286.977 | 354.708 | 394.635 | - | 394.635 | 205.821 | 292.253 | 590.208 | 423.976 |
| ANG | Quantity | - | - | - | - | - | 24 | 18 | - | 13 |
|  | Total Obligation Authority | - | - | - | - | - | 352.835 | 276.872 | - | 196.846 |

LI 7181G80820 - Mobile Protected Firepower Army

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| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: Tracked Combat Vehicles |  |  |  |  | P-1 Line Item Number / Title: 7181G80820 / Mobile Protected Firepower |  |  |  |  |  |
| ID Code (A=Service Ready | Not Service Ready): A | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0604645A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { Total } \end{aligned}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Total: | Quantity | 23 | 29 | 33 | - | 33 | 38 | 37 | 37 | 41 |
| Secondary Distribution | Total Obligation Authority | 286.977 | 354.708 | 394.635 | - | 394.635 | 558.656 | 569.125 | 590.208 | 620.822 |

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10:
P-1 Line Item Number / Title:
Tracked Combat Vehicles

## 7181G80820 / Mobile Protected Firepower

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604645A |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G80820 / Mobile Protected Firepower | P-5a, P-21 | A |  | 1 - | 23/286.977 | $29 / 354.708$ | $33 / 394.635$ | - 1 - | $33 / 394.635$ |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1. | 23/286.977 | $29 / 354.708$ | $33 / 394.635$ | 1. | $33 / 394.635$ |

*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 system production and fielding activities.


 Alabama (final assembly).








 Management includes STS contract administration, STS cost and schedule management, and development of contract deliverables and reporting.

 vehicle production, initial spares procurement, training device production, and STS.

Army Acquisition Objective (AAO): 504 vehicles.
This funding line is directly aligned to the Army Next Generation Combat Vehicle (NGCV) Modernization Priority.

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

Exhibit P-5, Cost Analysis: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 10ID Code (A=Service Ready, B=Not Service Ready) : A

P-1 Line Item Number / Title:
7181G80820 / Mobile Protected Firepower

Date: March 2023

## Item Number / Title [DODIC]:

G80820 / Mobile Protected Firepower

| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 23 | 29 | 33 | - | 33 |
| Gross/Weapon System Cost (\$ in Millions) | - | 286.977 | 354.708 | 394.635 | - | 394.635 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 286.977 | 354.708 | 394.635 | - | 394.635 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 286.977 | 354.708 | 394.635 | - | 394.635 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | 12,477.261 | 12,231.310 | 11,958.636 | - | 11,958.636 |

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

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


\section*{| Flyaway Cost |
| :--- |
| Non Recurring Cost |}


| System Technical Support | - | - | - | - | - | 0.144 | - | - | 15.305 | - | - | 23.673 | - | - | - | - |  | 23.673 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Non Recurring Cost | - | - | - | - | - | 0.144 | - | - | 15.305 | - | - | 23.673 | - | - | - | - | - | 23.673 |
| Subtotal: Flyaway Cost | - | - | - | - | - | 0.144 | - | - | 15.305 | - | - | 23.673 | - | - | - | - | - | 23.673 |

Hardware Cost

| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Production Contractor Furnished End Item ${ }^{(\dagger)}$ | - | - | - | 12,163.783 | 23 | 279.767 | 11,128.172 | 29 | 322.717 | 10,142.848 | 33 | 334.714 | - | - | - | 10,142.848 | 33 | 334.714 |
| Production - <br> Government <br> Furnished Equipment | - | - | - | - | - | 0.606 | - | - | 1.160 | - | - | 1.477 | - | - | - | - | - | 1.477 |
| Subtotal: Recurring Cost | - | - | - | - | - | 280.373 | - | - | 323.877 | - | - | 336.191 | - | - | - | - | - | 336.191 |
| Subtotal: Hardware Cost | - | - | - | - | - | 280.373 | - | - | 323.877 | - | - | 336.191 | - | - | - | - | - | 336.191 |
| Package Fielding Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares and Special Tools | - | - | - | - | - | 3.325 | - | - | 5.368 | - | - | 17.660 | - | - | - | - | - | 17.660 |
| Subtotal: Recurring Cost | - | - | - | - | - | 3.325 | - | - | 5.368 | - | - | 17.660 | - | - | - | - | - | 17.660 |
| Subtotal: Package Fielding Cost | - | - | - | - | - | 3.325 | - | - | 5.368 | - | - | 17.660 | - | - | - | - | - | 17.660 |



## Remarks:

FY 2024 Base Procurement dollars will procure 33 Mobile Protected Firepower (MPF) vehicles.
Government Program Management: Includes salaries, travel, training, supplies, facilities, equipment, and support contractors necessary to manage contracting, engineering, logistics, and operations activities to support Low Rate Initial Production (LRIP) Phase vehicle production, training device production, Systems Technical Support (STS), and fielding efforts.

Based on actual execution of the program FY 2022 quantities are now 22 and will be updated prior to the submission of the FY 2025 budget submission.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 23 | 29 | 33 | - | 33 |

LI 7181G80820 - Mobile Protected Firepower Army

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| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10 |  |  |  | P-1 Line Item Number / Title: 7181G80820 / Mobile Protected Firepower |  |  |  | Item Number / Title [DODIC]: G80820 / Mobile Protected Firepower |  |  |  |  |
| 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 | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost $(\$ K)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Production - Contractor Furnished End Item ${ }^{(\dagger)}$ |  | 2022 | General Dynamics Land Systems / Various | Option / FPIF | Army Contracting Command Warren, Michigan | Jun 2022 | Nov 2023 | 23 | 12,163.783 | N |  |  |
| Production - Contractor Furnished End Item ${ }^{(+)}$ |  | 2023 | General Dynamics Land Systems / Various | Option / FPIF | Army Contracting Command Warren, Michigan | May 2023 | Nov 2024 | 29 | 11,128.172 | N |  |  |
| Production - Contractor Furnished End Item ${ }^{(t)}$ |  | 2024 | General Dynamics Land Systems / Various | Option / FPIF | Army Contracting Command Warren, Michigan | Apr 2024 | Nov 2025 | 33 | 10,142.848 | N |  |  |

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

## Remarks:

 down-select to a single vendor for Low Rate Initial Production (LRIP). MPF received Milestone C approval from the Army Acquisition Executive (AAE) on 24 June, 2022 . GDLS was awarded the LRIP contract.

Based on actual execution of the program FY 2022 quantities are now 22 and will be updated prior to the submission of the FY 2025 budget submission.

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G80820 / Mobile Protected Firepower |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 7181G80820 / Mobile Protected Firepower |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { Cost Elements } \\ & \text { (Units in Each) } \\ & \hline \end{aligned}$ |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { QTY } \end{aligned}$ | TO 1 <br> OCT <br> 2023 | $\begin{gathered} \text { DUL } \\ \text { DS OF } \\ \text { AS OFT } \end{gathered}$ | 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 | $\begin{gathered} \mathrm{F} \\ \underset{B}{\mathrm{E}} \end{gathered}$ | M A R | A <br>  <br> R <br> R | M A Y | $\begin{aligned} & \text { J } \\ & \text { U } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | A U G | S E P | O c T | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { v } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A P R | M A Y | J N | ${ }_{\text {J }}^{\text {u }}$ | A | S <br> $\mathbf{E}$ <br> $\mathbf{P}$ |  |
| Produ | Ftion - C | ontractor Fur | hished End | d ltem |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 23 | 0 | 23 | - | 2 | 2 | 3 | 3 | 2 |  | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2023 | ARMY | 29 | 0 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 |  | 2 | 3 | 3 | 3 | 4 |
| 1 | 2024 | ARMY | 33 | 0 | 33 |  |  |  |  |  |  | A - | - | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | 33 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\begin{aligned} & \hline F \\ & \hline \\ & E \\ & B \end{aligned}$ | M A R | A P P R | M A Y | J U | ${ }_{\text {J }}^{\text {u }}$ | A G G | S E P | - | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline J \\ & A \\ & \text { A } \end{aligned}$ | F | M A R | A P R | M A A | J | ${ }_{\text {u }}$ | A | S |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 10 |  |  |  |  | P-1 Line Item Number / Title: <br> 7181G80820 / Mobile Protected Firepower |  |  |  |  | Item Number / Title [DODIC]: G80820 / Mobile Protected Firepower |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2024 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2024 | 1-8-5 For 2024 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ |  | $\begin{aligned} & \text { Manufacturing } \\ & \text { PLT } \end{aligned}$ | Total After Oct 1 |
| 1 | General Dynamics Land Systems - Various | 4 | 4 | 6 | 0 | 1 | 17 | 18 | 0 | 12 | 17 | 29 |

## Remarks:

 Live Fire Testing. These systems will be delivered in September 2024 through October 2024.

 2024, 19 months from first vehicle delivery (November 2025)

Based on actual execution of the program FY 2022 quantities are now 22 and will be updated prior to the submission of the FY 2025 budget submission.
"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 2024 Army
Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20:
Modification of Tracked Combat Vehicles

## P-1 Line Item Number / Title:

0363G85200 / Stryker Upgrade

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

| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 919 | 228 | 180 | 85 | - | 85 | 110 | 189 | 187 | 182 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 3,404.464 | 1,082.828 | 891.171 | 614.282 | - | 614.282 | 654.326 | 865.441 | 816.703 | 860.055 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |
| Net Procurement (P-1) (\$ in Millions) | 3,404.464 | 1,082.828 | 891.171 | 614.282 | - | 614.282 | 654.326 | 865.441 | 816.703 | 860.055 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |
| Total Obligation Authority (\$ in Millions) | 3,404.464 | 1,082.828 | 891.171 | 614.282 | - | 614.282 | 654.326 | 865.441 | 816.703 | 860.055 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 3,704.531 | 4,749.246 | 4,950.950 | 7,226.847 | - | 7,226.847 | 5,948.418 | 4,579.053 | 4,367.396 | 4,725.577 | Continuing | Continuing |

## Description:













 flat bottom hull Strykers required to feed the exchange production process. Configurations of Stryker DVHA1 ECP vehicles are:

 real time intelligence while moving throughout the battlefield in close, complex, and urban terrain.
 mortars provide complementary capabilities with responsive, accurate and lethal indirect fire support to the dismounted infantry assault.
 data, analyze, prepare, and transmit data, and control the forces/functions carrying out combat missions.
$\qquad$

## Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: <br> Modification of Tracked Combat Vehicles

P-1 Line Item Number / Title:


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

 designation, position location, and communications functionality. Targets will be transmitted instantly to the fire support system and shooter.
 surface mines, proofing of subsurface mines, and smoke generation for local protection.
 trauma cases.
 reinforces the brigade's infantry battalion, reinforces the brigade reconnaissance squadron, and provides long-range direct fire.

 protected transport for an infantry or cavalry squad with individual equipment.

Procuring Double-V-Hull A1 ECP Medical Evacuation Vehicles to support Terrestrial Layered System (TLS) Program for Project Manager (PM) Electronic Warfare and Cyber.


 Army's Stryker Brigade Combat Teams (SBCTs).


 Task Trainers (FUPP PTTs), Mortar Carrier Hands-On Trainers (MC HOTs).

Retrofit Planning and Site Management: Funding supports kit material handling and fleet-wide retrofits for the Stryker Family of Vehicles (FoV)
Test Fleet Maintenance funding maintains the Stryker test fleet, to include contractor repair labor and operations of Stryker repair parts warehouses located at the Army's test centers.
 ECPs.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 228 | 180 | 85 | - | 85 | 110 | 189 | 187 | 182 |
|  | Total Obligation Authority | 1,082.828 | 891.171 | 614.282 | - | 614.282 | 654.326 | 865.441 | 816.703 | 860.055 |
| Total: | Quantity | 228 | 180 | 85 | - | 85 | 110 | 189 | 187 | 182 |

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| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles |  |  |  |  | P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | FY 2024 Total <br> 614.282 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Secondary Distribution | Total Obligation Authority | 1,082.828 | 891.171 | 614.282 | - |  | 654.326 | 865.441 | 816.703 | 860.055 |

Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20:
Modification of Tracked Combat Vehicles

## P-1 Line Item Number / Title:

0363G85200 / Stryker Upgrade

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0203735A |
| :--- | :--- | :--- | :--- |

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

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | 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 | G85200 / Stryker Upgrade | P-5a, P-21 | A |  | 919 / 3,404.464 | 228 / 1,082.828 | 180 / 891.171 | 85/614.282 | - 1 - | 85/614.282 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 919 / 3,404.464 | 228 / 1,082.828 | 180/891.171 | 85/614.282 | 1 - | 85/614.282 |

*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:

Note: Stryker Modification efforts and funding in Budget Line 4, 0230GM0100 / Stryker (Mod) were realigned to Budget Line 5, $0363 G 85200$ / Stryker Upgrade starting in FY 2021.
FY 2024 Base procurement dollars in the amount of $\$ 614.282$ million supports the following:

 characteristics.


 obsolescence within the targeting and reconnaissance systems utilized on the Stryker Family of Vehicles (FoV).



 power solution efforts. Modifications will be conducted by field modification teams, subject to vehicle/hardware availability.

Retrofit planning and site management funding provides for kit material handling and retrofit site management to support fleet-wide retrofits of the Stryker FoV

 The 91S training course requires purchase of the Diagnostic Troubleshooting Trainers (DTTs).

 results.

Development Test on Stryker In-Vehicle Network 2 modification and 30mm Lethality vehicle production testing which includes safety, performance, durability, and environmental tests.


Exhibit P-5, Cost Analysis: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity

## 2033A / 01 / 20

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

Date: March 2023

## Item Number / Title [DODIC]:

G85200 / Stryker Upgrade


Exhibit P-5, Cost Analysis: PB 2024 Army
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20

## P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade

Date: March 2023

## Item Number / Title [DODIC]:

G85200 / Stryker Upgrade

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

| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ 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) | 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 (\$ M) |
| Government <br> Furnished Equipment (GFE) | - | - | 28.309 | - | - | 0.017 | - | - | 0.112 | - | - | 1.032 | - | - | - | - | - | 1.032 |
| Subtotal: Recurring Cost | - | - | 2,789.509 | - | - | 918.472 | - | - | 589.854 | - | - | 343.219 | - | - | - | - | - | 343.219 |
| Subtotal: Flyaway Cost | - | - | 2,789.509 | - | - | 918.472 | - | - | 589.854 | - | - | 343.219 | - | - | - | - | - | 343.219 |
| Hardware Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fleet Modifications | - | - | 44.610 | - | - | 0.269 | - | - | 4.864 | - | - | 8.468 | - | - | - | - | - | 8.468 |
| CROWS-J ECP | - | - | - | - | - | 50.567 | - | - | 71.707 | - | - | 63.877 | - | - | - | - | - | 63.877 |
| ATGM ECP | - | - | 21.322 | - | - | 20.415 | - | - | 5.598 | - | - | 4.715 | - | - | - | - | - | 4.715 |
| Subtotal: Recurring Cost | - | - | 65.932 | - | - | 71.251 | - | - | 82.169 | - | - | 77.060 | - | - | - | - | - | 77.060 |
| Subtotal: Hardware Cost | - | - | 65.932 | - | - | 71.251 | - | - | 82.169 | - | - | 77.060 | - | - | - | - | - | 77.060 |
| Package Fielding Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| System Fielding <br> Support - DVH A1 | - | - | 226.726 | - | - | 26.391 | - | - | 49.222 | - | - | 57.987 | - | - | - | - | - | 57.987 |
| Subtotal: Recurring Cost | - | - | 226.726 | - | - | 26.391 | - | - | 49.222 | - | - | 57.987 | - | - | - | - | - | 57.987 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Authorized Stockage List - DVH A1 | - | - | 130.104 | - | - | 3.565 | - | - | 28.572 | - | - | 29.173 | - | - | - | - | - | 29.173 |
| Subtotal: Non Recurring Cost | - | - | 130.104 | - | - | 3.565 | - | - | 28.572 | - | - | 29.173 | - | - | - | - | - | 29.173 |
| Subtotal: Package Fielding Cost | - | - | 356.830 | - | - | 29.956 | - | - | 77.794 | - | - | 87.160 | - | - | - | - | - | 87.160 |

Logistics Cost
Logisics Cost

| Retrofit Planning and Site Management | - | - | 7.053 | - | - | 7.353 | - | - | 7.912 | - | - | 8.390 | - | - |  | - | - | 8.390 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Recurring Cost | - | - | 7.053 | - | - | 7.353 | - | - | 7.912 | - | - | 8.390 | - | - | - | - | - | 8.390 |
| Subtotal: Logistics Cost | - | - | 7.053 | - | - | 7.353 | - | - | 7.912 | - | - | 8.390 | - | - | - | - | - | 8.390 |
| Support - Support Equipment Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maintenance Equipment | - | - | 7.806 | - | - | 0.278 | - | - | 5.073 | - | - | 4.351 | - | - | - | - | - | 4.351 |
| Subtotal: Support - Support Equipment Cost | - | - | 7.806 | - | - | 0.278 | - | - | 5.073 | - | - | 4.351 | - | - | - | - | - | 4.351 |
| Support - System Engineering Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| System Engineering | - | - | 118.734 | - | - | 31.706 | - | - | 59.013 | - | - | 37.638 | - | - | - | - | - | 37.638 |
| Subtotal: Support - System Engineering Cost | - | - | 118.734 | - | - | 31.706 | - | - | 59.013 | - | - | 37.638 | - | - | - | - | - | 37.638 |

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## Remarks:

Stryker DVHA1 variant unit costs fluctuate annually based on the total number of DVHA1 vehicles procured and the quantities of individual variants procured as established in the DVHA1 contract range pricing Based on actual execution of the program FY 2022 quantities are now 248 and will be updated prior to the FY 2025 budget submission.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 228 | 180 | 85 | - | 85 |
|  | Total Obligation Authority | 1,082.828 | 891.171 | 614.282 | - | 614.282 |
| Total: <br> Secondary Distribution | Quantity | 228 | 180 | 85 | - | 85 |
|  | Total Obligation Authority | 1,082.828 | 891.171 | 614.282 | - | 614.282 |

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

| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: G85200 / Stryker Upgrade |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  | P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade |  |  |  |  |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| DVH A1 ECP Infantry Carrier Vehicle ${ }^{(\dagger)}$ |  | 2022 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2022 | Sep 2023 | 56 | 1,203.268 | Y |  |  |
| DVH A1 ECP Infantry Carrier Vehicle ${ }^{(\dagger)}$ |  | 2023 | GM GDLS Defense Group L.L.C. I Shelby Township | SS/FPIF | TACOM | Mar 2023 | Sep 2024 | 121 | 2,763.917 | Y |  |  |
| DVH A1 ECP Infantry Carrier Vehicle ${ }^{(\dagger)}$ |  | 2024 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2024 | Sep 2025 | 53 | 3,249.566 | Y |  |  |
| DVH A1 ECP Anti-Tank Guided Missile Veh ${ }^{(+)}$ |  | 2022 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2022 | Jan 2024 | 8 | 2,756.750 | Y |  |  |
| DVH A1 ECP Anti-Tank Guided Missile Veh $^{(+)}$ |  | 2024 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2024 | Dec 2025 | 5 | 3,818.600 | Y |  |  |
| DVH A1 ECP Mortar Carrier Vehicle ${ }^{(\dagger)}$ |  | 2022 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2022 | Feb 2024 | 23 | 2,807.174 | Y |  |  |
| DVH A1 ECP Mortar Carrier Vehicle ${ }^{(\dagger)}$ |  | 2023 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2023 | Dec 2024 | 20 | 3,207.350 | Y |  |  |
| DVH A1 ECP Mortar Carrier Vehicle ${ }^{(+)}$ |  | 2024 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2024 | Jan 2026 | 6 | 3,668.500 | Y |  |  |
| DVH A1 ECP Fire Support Vehicle ${ }^{(\dagger)}$ |  | 2022 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2022 | Sep 2023 | 7 | 2,797.571 | Y |  |  |
| DVH A1 ECP Fire Support Vehicle ${ }^{(\dagger)}$ |  | 2023 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2023 | Sep 2024 | 10 | 2,942.500 | N |  |  |
| DVH A1 ECP Fire Support Vehicle ${ }^{(\dagger)}$ |  | 2024 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2024 | Jan 2026 | 5 | 3,467.000 | Y |  |  |
| DVH A1 ECP Engineer Squad Vehicle ${ }^{(\dagger)}$ |  | 2022 | GM GDLS Defense Group L.L.C. I Shelby Township | SS/FPIF | TACOM | Mar 2022 | May 2024 | 8 | 2,780.625 | Y |  |  |
| DVH A1 ECP Engineer Squad Vehicle ${ }^{(\dagger)}$ |  | 2023 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2023 | Sep 2024 | 5 | 3,325.600 | N |  |  |
| DVH A1 ECP Engineer Squad Vehicle ${ }^{(\dagger)}$ |  | 2024 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2024 | Oct 2025 | 5 | 3,545.400 | Y |  |  |
| DVH A1 ECP Commander's Vehicle ${ }^{(\dagger)}$ |  | 2022 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2022 | Sep 2023 | 21 | 2,724.762 | Y |  |  |
| DVH A1 ECP Commander's Vehicle ${ }^{(\dagger)}$ |  | 2023 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2023 | Dec 2024 | 14 | 3,153.571 | Y |  |  |
| DVH A1 ECP Commander's Vehicle ${ }^{(\dagger)}$ |  | 2024 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2024 | Sep 2025 | 6 | 3,549.500 | Y |  |  |

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| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  | P-1 Line Item Number / Title: 0363G85200 / Stryker Upgrade |  |  |  | Item Number / Title [DODIC]: G85200 / Stryker Upgrade |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| DVH A1 ECP Medical Evacuation Vehicle ${ }^{(\dagger)}$ |  | 2022 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2022 | Sep 2023 | 30 | 2,992.900 | Y |  |  |
| DVH A1 ECP Medical Evacuation Vehicle ${ }^{(\dagger)}$ |  | 2023 | GM GDLS Defense Group L.L.C. I Shelby Township | SS/FPIF | TACOM | Mar 2023 | Jan 2025 | 10 | 3,509.700 | Y |  |  |
| DVH A1 ECP Medical Evacuation Vehicle ${ }^{(\dagger)}$ |  | 2024 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2024 | Feb 2026 | 5 | 3,527.200 | Y |  |  |
| DVH A1 $30 \mathrm{~mm} \mathrm{MCWS}{ }^{(\dagger)}$ |  | 2022 | OshKosh Defense, LLC / Oshkosh, Wisconsin | SS / Various | TACOM | Mar 2022 | Sep 2023 | 95 | 5,617.568 | N |  |  |

${ }^{(t)}$ indicates the presence of a P-21
Remarks:
Based on actual execution of the program FY 2022 quantities are now 248 and will be updated prior to the FY 2025 budget submission.

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Exhibit P-21, Production Schedule: PB 2024 Army


|  |  |
| :---: | :---: |
| MFR |  |
| Ref | Manufacturer |
| $\#$ | Name - Location |

Production Rates (Each / Month)

P-1 Line Item Number / Title:
0363G85200 / Stryker Upgrade

Date: March 2023

## Item Number / Title [DODIC]:

G85200 / Stryker Upgrade

1 GM GDLS Defense Group 2 GM GDLS Defense Group $2 \begin{aligned} & \text { GM GDLS Defense Group } \\ & \text { L.L.C. - Shelby Township }\end{aligned}$ 3 GM GDLS Defense Group L.L.C. - Shelby Township 4 GM GDLS Defense Group L.L.C. - Shelby Township 5 GM GDLS Defense Group L.L.C. - Shelby Township 6 GM GDLS Defense Group L.L.C. - Shelby Township 7 GM GDLS Defense Group $\begin{aligned} & \text { L.L.C. - Shelby Township }\end{aligned}$ 8 GM GDLS Defense Group L.L.C. - Shelby Township

9 GM GDLS Defense Group L.L.C. - Shelby Township 10 GM GDLS Defense Group L.L.C. - Shelby Township

11 GM GDLS Defense Group L.L.C. - Shelby Township 12 GM GDLS Defense Group L.L.C. - Shelby Township

13 GM GDLS Defense Group L.L.C. - Shelby Township

14 OshKosh Defense, LLC Oshkosh, Wisconsin

Remarks:
Lead time for Stryker Double V Hull A1 variants is 11-13 months.
Lead time for FY 2022 Double V Hull A1 30mm Lethality is 20 months due to synchronization of the Double V Hull A1 platform and 30mm Mission Equipment Package integration.
Based on actual execution of the program FY 2022 quantities are now 248 and will be updated prior to the FY 2025 budget submission.
" A " in the Delivery Schedule indicates the Contract Award Date.

 thousand). If the maximum quantity is equal or greater than $1,000,000,000$ all quantities are shown in billions (rounded to the nearest million).
Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20:
Modification of Tracked Combat Vehicles

## P-1 Line Item Number / Title: <br> 1382GZ3300 / BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE

 Modification of Tracked Combat Vehicles

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

| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | 128 | - | 128 | - | - | - | - | - | 128 |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 5.232 | - | 5.232 | - | - | - | - | - | 5.232 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | - | 5.232 | - | 5.232 | - | - | - | - | - | 5.232 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 5.232 | - | 5.232 | - | - | - | - | - | 5.232 |
| (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) | - | - | - | 40.875 | - | 40.875 | - | - | - | - | - | 40.875 |

## Description:

GZ3300 / BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE is a New Start program in FY 2024.
GA3312 / M3A3 BFIST VEHICLE WITH FS3 is a new start within the BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE Budget Line in FY 2024
The Bradley Fire Support Team (BFIST) vehicle replaced the aging M981 Fire Support Vehicle used by the Fire Support Team (FIST) in the Armored Brigade Combat Teams (ABCT). The BFIST contributes to success on the battlefield by accurately locating and designating targets and then combining this information to develop and execute fire support plans. The BFIST allows fire support operations to be performed on the battlefield in vehicles with the same signature, survivability, and mobility as the other Bradley Fighting Vehicles (BFV) in the maneuver units it supports. There are 246 BFIST vehicles fielded with three variants: M7A4 BFIST, A3 BFIST with FS3 (Fire Support Sensor System), and M7 BFIST SA (Situation Awareness).

All three variants enable company Fire Support Teams (FIST) and company fire support officers to plan, coordinate and execute timely, accurate indirect artillery and mortar fires. The FS3 on all vehicles provides automated enhanced surveillance, target acquisition, target identification, target designation, target tracking, position location, and communications functionality under armor while mounted and target acquisition and designation while dismounted. All variants are being upgraded to include Fire Observer Software (FOS) on the Mounted Family of Computer System (MFoCS), TALIN 5000 Inertial Navigation Unit (INU); and Target Accuracy upgrades to meet Category I (CAT I) Target Location Error (TLE) specifications - the highest level TLE obtainable. After upgrades are completed, all BFIST vehicles will meet the Operational Requirements Document (ORD) objective requirements.
 stations; and has $500-\mathrm{amp}$ power generation. The A3 BFIST w/FS3 is based on the Bradley M3A3 vehicle and utilizes Commanders Independent Viewer (CIV) in the commander and turret stations; and has $500-\mathrm{amp}$ power generation. The M7A4 BFIST is based on the Bradley M2A4 vehicle utilizes both the Smart Display Unit (SDU) and Commanders Independent Viewer (CIV) in the commander and turret stations; an upgraded engine and $1000-\mathrm{amp}$ power generation.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | 74 | - | 74 | - | - | - |  |
|  | Total Obligation Authority | - | - | 3.039 | - | 3.039 | - | - | - | - |

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| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles |  |  |  |  | P-1 Line Item Number / Title: <br> 1382 GZ3300 / BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| ANG | Quantity | - | - | 54 | - | 54 | - | - | - | - |
|  | Total Obligation Authority | - | - | 2.193 | - | 2.193 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | 128 | - | 128 | - | - | - | - |
|  | Total Obligation Authority | - | - | 5.232 | - | 5.232 | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2024 Army
Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20:

P-1 Line Item Number / Title:
1382GZ3300 / BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE
Modification of Tracked Combat Vehicles

| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | GZ3312 / M3A3 BFIST VEHICLE WITH FS3 |  |  |  | - 1 - | - 1 - | - 1 - | 128 / 5.232 | - 1 - | 128 / 5.232 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 1 - | - 1 - | 128 / 5.232 | - 1 - | 128 / 5.232 |

${ }^{*}$ 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:


 remain in the Armored Brigade Combat Team (ABCT) formation until the 2050s.

The primary effort will focus on the application of field modifications to mitigate obsolescence with Fire Observer Software (FOS) on the Mounted Family of Computer System (MFoCS) and to improve Target Accuracy. The Fire Support Station and Commanders Display utilize the common Color Flat Panel Display (CFPD) which is in the process of obsolescence redesign with integration in FY 2025 and supply availability in FY 2026. Funding also supports the integration of the modernized Bradley Common Display (BCD) for all Bradley Fire Support Team (BFIST) vehicles.

GZ3300 / BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE is a New Start program in FY 2024.
GA3312 / M3A3 BFIST VEHICLE WITH FS3 is a new start within the BRADLEY FIRE SUPPORT TEAM (BFIST) VEHICLE Budget Line in FY 2024
In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.


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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
1678GZ2400 / Bradley Program (MOD)

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 6,738.018 | 460.385 | 260.398 | 158.274 | - | 158.274 | 129.907 | 102.738 | 101.136 | 104.154 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 6,738.018 | 460.385 | 260.398 | 158.274 | - | 158.274 | 129.907 | 102.738 | 101.136 | 104.154 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 6,738.018 | 460.385 | 260.398 | 158.274 | - | 158.274 | 129.907 | 102.738 | 101.136 | 104.154 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 91,054.297 | 6,576.929 | 9,644.370 | - | - | - | - | - | - | - | Continuing | Continuing |

## Description:

The Bradley Fighting Vehicle (BFV) is a fighting vehicle platform designed to transport infantry or scouts with armor protection, while providing covering fire to suppress enemy troops and armored vehicles. The primary mission area for the Bradley Fighting Vehicle is to support the mission of the Armored Brigade Combat Team (ABCT) and the ABCT mission is to fight and win engagements and battles in support of operational and strategic national objectives. The Bradley Family of Vehicles Modification line supports 3,331 Bradley vehicles across all three variants (A4, A3, Operation Desert Storm Situational Awareness (ODS-SA)). The funding line provides for the procurement of the A4 Mobility Engineering Change Proposals (ECPs) (A4s), fleet modifications that address changes to the vehicle configurations resulting from identified safety issues, approved Engineering Change Proposals (ECPs), integration of emerging technologies, performance degradation issues, obsolescence issues, readiness, issues identified in the field and approved by the Materiel Developer and Combat Developer for fielded Bradley Family of Vehicles (FOV), and Operational Need Statements (ONS). Additionally, this line supports the personnel, engineering, design, testing, hardware procurement, fielding, and installation in support of the aforementioned items.

The Bradley Program (MOD) funding line procures upgrades to the Bradley Fighting Vehicle and procures Army Acquisition Executive (AAE) approved Engineering Change Proposals (ECPs). There are currently two Engineering Change Proposals (ECPs) in this program, Track and Suspension and the A4 Mobility. The Track and Suspension ECP improves the vehicle fleet's suspension increasing underbelly clearance and provides extended life track. The Bradley A4 Mobility ECP addresses space, weight, power, and cooling issues with an improved powertrain and electrical system enabling the Bradley to host inbound technologies from other Army Programs of Record, such as, but not limited to the Integrated Tactical Network (ITN).

Additionally, the Bradley Program (MOD) procures training systems, and other upgrades, including but not limited to high priority improvements, survivability enhancements, increased cyber requirements and required modifications to achieve A4 Full Materiel Release, and obsolescence mitigation such as the Improved Bradley Acquisition Subsystem (IBAS 2.8), Bradley Processing unit, and common displays. Additionally, this line provides modification kits for other Army programs such as the Integrated Tactical Network (ITN) and Bradley fleet obsolescence mitigation for other Army programs such as the Integrated Tactical Network (ITN).

| Secondary Distribution |  | FY 2022 | FY 2023 | $\text { FY } 2024$ <br> Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 460.385 | 260.398 | 158.274 | - | 158.274 | 129.907 | 102.738 | 101.136 | 104.154 |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |

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| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles |  |  |  |  | P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD) |  |  |  |  |  |
| ID Code (A=Service Ready | ot Service Ready): A | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0203735A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Secondary Distribution | Total Obligation Authority | 460.385 | 260.398 | 158.274 | - | 158.274 | 129.907 | 102.738 | 101.136 | 104.154 |

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

## Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:
2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 1678 GZ2400 / Bradley Program (MOD)
Modification of Tracked Combat Vehicles

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GZ2400 / Bradley Program (MOD) (Increase Performance) |  | A |  | - 16,738.018 | - 1460.385 | - 1260.398 | - /158.274 | - 1 - | - /158.274 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 16,738.018 | - / 460.385 | - 1260.398 | - / 158.274 | - 1 - | - / 158.274 |
| Exhibits Schedule |  |  |  |  | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Co } \end{array}$ | 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 (Each) I (\$ M) |
| P-3a | GZ2400 / Bradley Program (MOD) (Increase Performance) |  | A |  | - /129.907 | - / 102.738 | - /101.136 | - /104.154 | Continuing | Continuing |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /129.907 | - /102.738 | - / 101.136 | - / 104.154 | Continuing | Continuing |

*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:


 projections indicate the Bradley Fighting Vehicle and the Bradley Fire Support Vehicle will remain in the Armored Brigade Combat Team (ABCT) formation until the 2050s.




 Troubleshooting Trainers (DTT). These training devices are critical to maintaining gunnery proficiency and lowering maintenance cost.
 Proposals (ECPs), conversion of Bradley configurations and industrial base mitigation.

Mod 7 (BFVS Mobility Modification) funding supports continuation of Bradley A4 fielding and production testing.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-3a, Individual Modification: PB 2024 Army

| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  | P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD) |  |  |  |  | Modification Number / Title: GZ2400 / Bradley Program (MOD) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Millions) | 6,738.018 | 460.385 | 260.398 | 158.274 | - | 158.274 | 129.907 | 102.738 | 101.136 | 104.154 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 6,738.018 | 460.385 | 260.398 | 158.274 | - | 158.274 | 129.907 | 102.738 | 101.136 | 104.154 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 6,738.018 | 460.385 | 260.398 | 158.274 | $\bullet$ | 158.274 | 129.907 | 102.738 | 101.136 | 104.154 | Continuing | Continuing |
| (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) | 91,054.297 | 6,576.929 | 9,644.370 | - | - | - | - | - | - | - | Continuing | Continuing |

## Description:

MOD 2 (BFVS High Priority Improvements) - Provides funding for the components, application, and engineering support of improvements designed to resolve problems identified in the field, engineering support related to production, improve safety, integrate new equipment, develop and integrate mod kits, address obsolescence issues, and bring the vehicles into compliance with transportability and recovery requirements. Provides cyclical updates to vehicle software to incorporate obsolescence redesign, maintain software versions, and update integrated logistics products.

MOD 3 (Training Equipment Devices) - Provides funding to support procurement and fielding of Bradley Fighting Vehicle Training Aids, Devices, Simulators and Simulations (TADSS). The Bradley training base requires a technical refresh of the following systems to address obsolescence issues: M2A3/M7A3 Part Task Trainers (PTT), Crew Module Unit Recorder (CMUR) and the Bradley Common Software Library (BCSL). Production funding will also provide new A4 Turret Hands on Trainers and A3/A4 Parts Task Trainers required by the US Army Training and Doctrine Command (TRADOC) System Training Plan.

MOD 5 (Program/Engineering Support) - Program/Engineering Support includes both government \& contractor program management support to oversee program planning \& procurement of Engineering Change Proposals (ECPs), conversion of Bradley configurations and industrial base mitigation.

MOD 6 (BFVS Track and Suspension Modification) - Provides funding to support procurement and fielding of the Track and Suspension Engineering Change Proposals (ECP) to the Bradley Vehicle fleet. The Track and Suspension field modifications include track and suspension system upgrades that help to alleviate mobility, force protection, and system survivability deficiencies. Costs associated with kit installations are included in the funding for the prime hardware contracts.

MOD 7 (BFVS Mobility Modifications) - Provides funding to support procurement and fielding of Bradley A4 variant vehicles. In addition to vehicles, funding supports the procurement of government furnished material and fielding. The M2A4/M7A4 Bradley regain lost capability due to added weight by upgrading the power pack and drivetrain systems. The A4 improves the electrical system to enable hosting of inbound technologies from other Army Programs of Record. Costs associated with kit installations are included in the funding for the prime hardware contracts. The Army Procurement Object (APO) is 731 A4s for four Armor Brigade Combat Teams, one Army Prepositioned Stock brigade to support European Deterrence Initiative requirements and TRADOC vehicles. A4 Vehicle planned fielding of a BCT in FY2024 and manufacturing through 1QFY2025. Prior to FY 2020, 175 vehicles received the Bradley Fighting Vehicle System Mobility Modification which was funded in the Bradley Program Line (G80718). Funding for the Bradley Program Line ended in FY 2019.

MOD 10 (Survivability Enhancements) - Provides funding to support procurement and fielding of Survivability Enhancements including, but not limited to, the Underbelly Interim Solution (UBIS). UBIS increases the system survivability of the Bradley Fighting Vehicle against various threats.

Modification Acronyms listed above: Bradley Fighting Vehicle System (BFVS); Chassis Modernization and Embedded Diagnostics (CMED) kits; Inertial Navigation Unit (INU)/ Tactical Advanced Land Inertial Navigator (TALIN); and Improved Bradley Acquisition Subsystem (IBAS).

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| Exhibit P-3a, Individual Modification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  | P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD) |  |  |  |  | Modification Number / Title: GZ2400 / Bradley Program (MOD) |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2224 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 460.385 | 260.398 | 158.274 | - | 158.274 | 129.907 | 102.738 | 101.136 | 104.154 |
| Total: <br> Secondary Distribution | Quantity | - | $\cdot$ | $\cdot$ | - | $\cdot$ | - | - | - | - |
|  | Total Obligation Authority | 460.385 | 260.398 | 158.274 | - | 158.274 | 129.907 | 102.738 | 101.136 | 104.154 |

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)

MDAP/MAIS Code:

Date: March 2023

## Modification Number / Title:

GZ2400 / Bradley Program (MOD)
 Vehicle Variants

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 10: Bradley Reactive Armor |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Kit Quantity | 2,676/765.100 | 1 - | 1 - | 1 - | 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | 2,676/765.100 |
| Subtotal: Recurring | 2,676/765.100 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - 1 | 2,676/765.100 |
| Subtotal: Bradley Reactive Armor | 2,676/765.100 | - / - | - / - | - / - | 1 - | 1 - | 1 - | 1 | 1 | - 1 | - 1 - | 2,676/765.100 |
| Modification Item 2 of 10: BFVS High Priority Improvements |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| CMED Driver Vision Upgrade | $617 / 85.500$ | - 1- | - 1- | - 1- | 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | $617 / 85.500$ |
| Reset Mods | $756 / 10.500$ | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 756/10.500 |
| INU/Talon | 271/5.000 | - 1 - | 1 - | - 1- | - 1 - | - 1- | - 1 - | - 1- | - 1 - | - 1- | - 1 - | 271/5.000 |
| Heat Abatement/Cargo Hatch | 2,764/2.870 | - 1 | - 1 - | 1 - | 1 - | - 1 - | - 1- | - 1- | -1 | - 1- | - 1 | 2,764/2.870 |
| High Priority Mods | - 1232.741 | - 135.969 | - 153.381 | - 139.100 | - 1 - | - 139.100 | - 160.346 | - 134.896 | - 133.851 | - 135.663 | Continuing | Continuing |
| Urban Survivability Mods | $\begin{array}{r} 5,276 I \\ 2,098.985 \end{array}$ | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | $\begin{array}{r} 5,2761 \\ 2,098.985 \end{array}$ |
| IBAS 2.8 | - 1 - | $143 / 51.801$ | - /10.269 | 179/41.109 | - 1- | 179/41.109 | 140/41.931 | 140/42.770 | 140/47.000 | 140/47.000 | Continuing | Continuing |
| Subtotal: Recurring | $\begin{array}{r} \hline 9,684 / \\ 2,435.596 \end{array}$ | 143/87.770 | - 163.650 | 179/80.209 | - 1 - | 179 / 80.209 | 140/102.277 | 140/77.666 | 140/80.851 | 140/82.663 | Continuing | Continuing |
| Subtotal: BFVS High Priority Improvements | $\begin{array}{r} \hline 9,6841 \\ 2,435.596 \end{array}$ | 143/87.770 | - 163.650 | 179 / 80.209 | / - | 179 / 80.209 | 140/102.277 | 140/77.666 | 140/80.851 | 140/82.663 | Continuing | Continuing |
| Modification Item 3 of 10: Training Equipment Devices |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Training Equipment | - 168.310 | - 13.287 | - /14.799 | - 12.450 | 1 - | - 12.450 | 1 - | 1 | - 12.100 | - 1 - | - 1 | - 190.946 |
| Subtotal: Recurring | - 168.310 | - /3.287 | - /14.799 | - 12.450 | 1 | - 12.450 | - 1 | - 1 | - 12.100 | - 1 | - 1 | - 190.946 |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware - Parts Task Trainer | - 188.634 | - 1 - | 1 - | 8/24.308 | - 1 - | 8/24.308 | - 1 - | - 1- | - 1 | - 1 - | - 1 - | 8/112.942 |
| Subtotal: Non-Recurring | - $/ 88.634$ | - / - | 1 | 8/24.308 | - 1 - | 8/24.308 | - 1 | - 1 | - 1 - | - 1 - | - 1 - | 8/112.942 |
| Subtotal: Training Equipment Devices | - /156.944 | - /3.287 | - /14.799 | 8/26.758 | - 1 - | 8/26.758 | - 1 - | - 1 - | - 12.100 | - 1- | - 1- | 8/203.888 |

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : A

Date: March 2023

## Modification Number / Title:

GZ2400 / Bradley Program (MOD)

## P-1 Line Item Number / Title: 1678GZ2400 / Bradley Program (MOD)

MDAP/MAIS Code:


Modification Type: Increase Performance
-

| FY 2022 | FY 2023 | FY 2024 <br> Base | FY 2024 <br> OCO |
| :---: | :---: | :---: | :---: | :---: |
| Qty (Each) I | Qty (Each) I | Qty (Each) I | Oty (Each) I |


|  | FY 2024 |
| :---: | :---: | :---: |
| Total |  |
|  | Qty (Each) I |
|  |  |
| Total Cost $(\$ M)$ | $T$ |

ss

| Modification Item 4 of 10: ODS Situational Awareness |
| :---: |
| A Kits |
| Recurring |
| ODS Situational Awareness |
| IBAS Refresh |
| ODS-SA VEHICLE VERSION IDENTIFICATION |
| Subtotal: Recurring |

Subtotal: ODS Situational Awareness
Modification Item 5 of 10: Program/Engineering Support
A Kits

| Recurring |  |  |
| :---: | :---: | :---: |
| Government PM support | $-/ 222.868$ |  |
| Contractor PM Support | $-/ 129.693$ |  |
| Subtotal: Recurring | $-/ 352.561$ |  |
| Subtotal: Program/Engineering Support | $-/ 352.561$ |  |
| Modification Item of $10:$ BFVS Trach |  |  |

Modification Item 6 of 10: BFVS Track and
Suspension Upgrade
A Kits
Recurring
BFVS ECP 1 Modification
Subtotal: Recurring
Subtotal: BFVS Track and Suspension Upgrade Modification Item 7 of 10: BFVS Mobility Modification
A Kits

| Recurring |
| :---: |
| BFVS A4 Modification |
| Subtotal: Recurring |
| Subtotal: BFVS Mobility Modification |
| Modification Item 8 of 10: Conversion to M2 |
| A Kits |

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : A
Models of Systems Affected: M2 \& M3 Bradley Vehicle Variants

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Conversion M3-M2 | 195/132.245 | 1 - | 1 - | 1 - | 1 - | 1 | 1 | - 1 | - 1 - | - 1 - | 1 | 195/132.245 |
| Fielding | - 15.942 | 1 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 | 1 | 1 | 1 | - 15.942 |
| Subtotal: Recurring | 195/138.187 | - / - | - / - | 1 | 1 | - / - | 1 | 1 | 1 | 1 | - / - | 195/138.187 |
| Subtotal: Conversion to M2 | 195/138.187 | / - | 1 - | / - | / - | - / - | - / - | - / - | - / - | - / - | - / - | 195/138.187 |
| Modification Item 9 of 10: Braking Safety/ Transmission Industrial Base |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Transmission | $266 / 87.834$ | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1- | - 1 - | - 1 - | - 1 | - 1 - | $266 / 87.834$ |
| Subtotal: Recurring | $266 / 87.834$ | - 1 - | / - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - / - | 266/87.834 |
| Subtotal: Braking Safety/Transmission Industrial Base | $266 / 87.834$ | - / - | - / - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 266/87.834 |
| Modification Item 10 of 10: Survivability Enhancements |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Underbelly Interium Solution (UBIS) | 600 / 17.144 | - 10.227 | 1 | - 1 - | - 1 - | - 1- | - 1 | - 1 | - 1 - | - 1 | - 1 | $600 / 17.371$ |
| Subtotal: Recurring | $600 / 17.144$ | - 10.227 | 1 | 1 | 1 | - / - | 1 | 1 | - 1 | - 1 | - 1 | $600 / 17.371$ |
| Subtotal: Survivability Enhancements | $600 / 17.144$ | - 10.227 | 1 - | / - | / - | / - | - / - | / - | - / - | 1 | - 1 - | $600 / 17.371$ |
| Subtotal: Procurement, All Modification Items | $\begin{array}{r} 17,419 / \\ 6,738.018 \end{array}$ | 597/446.614 | 27/239.217 | 187/149.289 | 7 | 187/149.289 | 140/119.412 | 140/101.644 | 140/100.020 | 140/103.016 | Continuing | Continuing |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 2 of 10: BFVS High Priority Improvements | 9,684 I - | 143/0.954 | - 1 - | 179 / 1.052 | 1 | 179/1.052 | $140 / 1.071$ | 140 / 1.094 | $140 / 1.116$ | $140 / 1.138$ | 1 | 10,566 / 6.425 |
| Modification Item 3 of 10: Training Equipment Devices | - 1- | 1 - | 1 | 81 - | - 1- | 81 - | - 1 - | 1 | - 1 - | 1 | 1 | 81 - |
| Modification Item 6 of 10: BFVS Track and Suspension Upgrade | 2,943। - | 401/ - | 1 - | - 1 - | - 1 - | 1 | - 1 - | - 1 - | - 1 - | 1 | - 1 - | 3,344 I - |
| Modification Item 7 of 10: BFVS Mobility Modification | 285/ - | 53/12.817 | 27/21.181 | 17.933 | 1 | - 17.933 | 19.424 | 1 | - 1 | 1 | 1 | 365 / 51.355 |
| Modification Item 8 of 10: Conversion to M2 | 195/ - | 1 - | - | 1 - | 1 | 1 - | - 1 - | - 1 | - 1 | 1 | 1 | 1951 - |
| Modification Item 10 of 10: Survivability Enhancements | 1 - | 881 - | 3521 - | 160/ - | - 1 - | 1601 - | - 1 - | - 1 - | 1 - | - 1 - | 1 | 6001 - |
| Subtotal: Installation | 13,107/ - | 685/13.771 | $379 / 21.181$ | $347 / 8.985$ | - / - | $347 / 8.985$ | 140/10.495 | 140/1.094 | 140/1.116 | 140/1.138 | 1 | 15,078 / 57.780 |

Date: March 2023

## Modification Number / Title:

GZ2400 / Bradley Program (MOD)
GZ2400 / Bradley Program (MOD)

MDAP/MAIS Code:

Modification Type: Increase Performance

## Related RDT\&E PEs:

## P-1 Line Item Number / Title: <br> 1678GZ2400 / Bradley Program (MOD)

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Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 2 of 10: BFVS High Priority Improvements

## Manufacturer Information

| Manufacturer Name: Various |  |  |  | Manufacturer Location: Various |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 5 |  |  |  | Production Leadtime (in Months): 12 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates | Mar 2022 | Mar 2023 | Mar 2024 | Mar 2025 |  |  |  |
| Delivery Dates | Mar 2023 | Mar 2024 | Mar 2025 | Mar 2026 |  |  |  |


| Installation Information |
| :--- |
| Method of Implementation: Contractor |


| Installation Cost | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 9,684/0.000 | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 9,684/0.000 |
| FY 2022 | - 1 - | $143 / 0.954$ | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 | 143/0.954 |
| FY 2023 | $0 / 0.000$ | - 1 - | - 1 - | - 1- | - 1 - | - 1 | - 1 | - 1 | - 1 | - 1 | 1 | - 1- |
| FY 2024 | - 1 - | - 1 - | - 1 - | 179 / 1.052 | 1 | 179/1.052 | 1 - | - 1 | - 1 - | -1 | 1 | 179/1.052 |
| FY 2025 | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | 140/1.071 | - 1 - | - 1 - | - 1 | - 1 | 140/1.071 |
| FY 2026 | 1 | - 1 | - 1 - | - 1 - | 1 - | - 1 | - 1 | $140 / 1.094$ | - 1 | - 1 | 1 | 140/1.094 |
| FY 2027 | 1 | - 1 | - 1 - | - 1 - | 1 | 1 | 1 | - 1 - | 140 / 1.116 | - 1 - | 1 | 140/1.116 |
| FY 2028 | 1 | 1 | - 1 - | - 1- | 1 - | 1 | 1 | 1 - | - 1 - | 140 / 1.138 | 1 | 140/1.138 |
| To Complete | $1-$ | 1 - | 1 - | - 1- | 1 - | 1 | 1 | 1 | - 1 - | - 1 - | - 1 | - 1- |
| Total | 9,684/0.000 | 143/0.954 | - 1- | 179 / 1.052 | 1 - | 179 / 1.052 | 140 /1.071 | 140 /1.094 | 140 / 1.116 | 140/1.138 | - 1- | 10,566 / 6.425 |

Installation Schedule

|  | PYS | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | FY 2028 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | 9,684 | - | - | - | - | 143 | - | - | - | 179 | - | - | - | 140 | - | - | - | 140 | - | - | - | 140 | - | - | - | 140 | - | - | - | - | 10,566 |
| Out | 9,684 | - | - | - | - | - | - | - | - | 36 | 36 | 36 | 35 | 45 | 45 | 45 | 44 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 140 | 10,566 |

Exhibit P-3a, Individual Modification: PB 2024 Army
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20
ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 3 of 10: Training Equipment Devices


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Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 6 of 10: BFVS Track and Suspension Upgrade

## Manufacturer Information

| Manufacturer Name: Loc Performance Products Inc,/Other |  |  |  | Manufacturer Location: Various |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): 13 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates | Dec 2021 |  |  |  |  |  |  |
| Delivery Dates | Jan 2023 |  |  |  |  |  |  |


| Installation Information |
| :--- |
| Method of Implementation: Contractor |


| Installation Cost | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 2,115/0.000 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1- | 2,115/0.000 |
| FY 2022 | $414 / 0.000$ | 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 | $414 / 0.000$ |
| FY 2023 | $414 / 0.000$ | 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | 1 - | - 1 - | - 1 | $414 / 0.000$ |
| FY 2024 | - 1 - | 401/0.000 | 1 - | - 1 - | - 1 - | - 1- | - 1 | - 1 - | - 1 - | - 1- | - 1 | $401 / 0.000$ |
| 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 - |
| FY 2028 | - 1- | - 1- | 1 - | 1 - | - 1 - | - 1- | 1 - | 1 | 1 - | - 1 - | - 1 | - 1 |
| To Complete | - 1 - | - 1 - | 1 - | 1 - | 1 - | - 1- | 1 | 1 | 1 | - 1 - | 1 | 1 |
| Total | 2,943/0.000 | 401/0.000 | 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | 1 - | - 1- | - 1 - | 3,344/0.000 |

Installation Schedule

|  | PYS | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | FY 2028 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | 2,943 | 401 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3,344 |
| Out | 2,219 | 104 | 103 | 103 | 104 | 104 | 103 | 103 | 100 | 100 | 100 | 101 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3,344 |

Exhibit P-3a, Individual Modification: PB 2024 Army
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: March 2023

## Modification Number / Title:

GZ2400 / Bradley Program (MOD)

Modification Item 7 of 10: BFVS Mobility Modification


## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 8 of 10: Conversion to M2

## Manufacturer Information

| Manufacturer Name: BAE |  |  |  | Manufacturer Location: YORK, PA |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |

## Installation Information

Method of Implementation: Contractor

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 195/0.000 | - 1 - | - 1 - | - 1 - | - 1- | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | 195/0.000 |
| FY 2022 | 010.000 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | 1 | - 1 - |
| FY 2023 | 010.000 | 1 - | - 1- | 1 - | 1 - | 1 | 1 - | - 1 - | - 1 | - 1 | 1 | 1 |
| FY 2024 | $0 / 0.000$ | 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 - |
| FY 2028 | 1 | 1 - | - 1 - | - 1 - | 1 - | 1 | 1 - | 1 - | - 1 - | - 1 - | 1 - | 1 |
| To Complete | 1 - | 1 | - 1 - | 1 - | 1 - | 1 | 1 | 1 - | - 1 - | - 1 - | 1 | - 1 - |
| Total | 195/0.000 | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | 195/0.000 |

Installation Schedule

|  | PYS | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | FY 2028 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | 195 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 195 |
| Out | 195 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 195 |

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Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 10 of 10: Survivability Enhancements


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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles

ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0604854A

## P-1 Line Item Number / Title:

2072GA0400 / M109 FOV Modifications

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 2,198.238 | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - | - | 2,386.634 |
| Less PY Advance Procurement (\$ in Millions) | 16.321 | - | - | - | - | - | - | - | - | - | - | 16.321 |
| Net Procurement (P-1) (\$ in Millions) | 2,181.917 | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - | - | 2,370.313 |
| Plus CY Advance Procurement (\$ in Millions) | 16.321 | - | - | - | - | - | - | - | - | - | - | 16.321 |
| Total Obligation Authority (\$ in Millions) | 2,198.238 | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - | - | 2,386.634 |
| (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:

This funding line is a key enabler of the Army Modernization Priorities in support of the Long-Range Precision Fires.






 and procured for the M109 Family of Vehicles.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - |

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

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- |
| 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: | 2072GA0400 / M109 FOV Modifications |
| Modification of Tracked Combat Vehicles |  |


| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0604854A | Other Related Program Elements: 0604854A |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GA0400 / M109 FOV Modifications (Increase Performance) |  | B |  | - 12,198.238 | - 10.333 | - 13.028 | - 190.986 | - 1 | - 190.986 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 12,198.238 | - 10.333 | - 13.028 | - 190.986 | 1 | - 190.986 |
| Exhibits Schedule |  |  |  |  | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GA0400 / M109 FOV Modifications (Increase Performance) |  | B |  | - 147.688 | - /46.361 | - 1 - | - 1 - | - 1 - | - 12,386.634 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 47.688 | - /46.361 | - 1 - | - 1 - | - 1- | - 12,386.634 |

*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:







 (IETMs). Contractor provides emergency field support to the Government as required for essential mission accomplishment

A portion of this funding line is a key enabler of the Army Modernization Priorities in support of the Long-Range Precision Fires.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-3a, Individual Modification: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  | P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications |  |  |  |  |  | Modification Number / Title: GA0400 / M109 FOV Modifications |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 2,198.238 | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - | - | 2,386.634 |
| Less PY Advance Procurement (\$ in Millions) | 16.321 | - | - | - | - | - | - | - | - | - | - | 16.321 |
| Net Procurement (P-1) (\$ in Millions) | 2,181.917 | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - | - | 2,370.313 |
| Plus CY Advance Procurement (\$ in Millions) | 16.321 | - | - | - | - | - | - | - | - | - | - | 16.321 |
| Total Obligation Authority (\$ in Millions) | 2,198.238 | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - | - | 2,386.634 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

M109 Family of Vehicles (FOV) Program Office [MOD 1]: Government System Engineering and Program Management support for the M109 Family of Vehicles (FOV) program.
Interior Blast Mitigation Retrofit Hardware/Fielding (M109A7) [MOD 3]: Procures and installs improved floor mat and ammo restraints to prevent those objects from becoming secondary projectiles in an underbody blast event.

Chief of Section protection (Increment I) Hardware and Fielding [MOD 4]: Ballistic riser with transparent armor, is intended to improve the situational awareness and personnel survivability when firing the crewserved weapon of the current systems in fielded Fires Battalions. These fixes also address shortcomings in training identified in Initial Operational Testing related to "combat only" configurations.

Ventilation System Dust Cover [MOD 5]: Procure/retrofit hardware to integrate pre-filtration design that reduces frequency of ventilation system clogging.
Self-Propelled Howitzer (SPH) Crew Compartment Automated Fire Extinguishing System (AFES) Retrofit Hardware \& Fielding [MOD 6]: Procure/retrofit hardware to expand to full crew compartment coverage from personnel heater coverage.

Self-Propelled Howitzer (SPH) Rearview Camera Hardware [MOD 7]: Provide the vehicle operators with live video feed of the rear of the vehicle to aid in maneuver and provide situational awareness.
Driver's Seatbelt Redesign Hardware [MOD 8]: Correcting issues associated with the Driver's Seatbelt and related components that comprise the seatbelt restraint system.
Floor Drainage Hardware [MOD 9]: Correct issues with standing, dirty liquids held inside the Self-Propelled Howitzer (SPH) and CAT vehicles by providing proper drainage of standing water, mud and solvents thus alleviating slippery floors and damage to equipment stored inside the vehicles.

Carrier, Ammunition, Tracked (CAT) Tanker Bar/Crowbar Stowage HW [MOD 10]: Improve the Carrier, Ammunition, Tracked (CAT) tanker/crowbar stowage retention.
Inadvertent Automated Fire Extinguishing System (AFES) Sealed Soldered Switch Hardware [MOD 11]: Release a sealed solder switch in order to reduce the susceptibly to resistive shorting during wash-down which leads to inadvertent discharges of Automated Fire Extinguishing System (AFES).

VanAxiel Fan Hardware [MOD 12]: Replace the current ventilation system motor, fitted with carbon-brushes, with a new brush-less electric motor. The proposed new fan and motor assembly will serve to lower the noise level to an acceptable level and comply with requirements.

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| Exhibit P-3a, Individual Modification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  | P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications |  |  |  |  | Modification Number / Title: GA0400 / M109 FOV Modifications |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |
| Fielding Hardware [MOD 13]: United States Government (USG) Program Management (PM) and fielding support funding is required in order to execute Modification Work Orders (MWOs) as part of the Life Cycle Management of the M109 Family of Vehicles (FOV) fleet; ensure the fleet is supported - equipment readiness. |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - |

Exhibit P-3a, Individual Modification: PB 2024 Army

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20
ID Code (A=Service Ready, B=Not Service Ready) : B

## Models of Systems Affected: M109 Howitzer and

 M992 FAASV/CAT Vehicles
## P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications

Date: March 2023

## Modification Number / Title:

GA0400 / M109 FOV Modifications

MDAP/MAIS Code:

Modification Type: Increase Performance

## Related RDT\&E PEs:

| Financial Plan | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 13: M109 Family of Vehicles Program Office |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Program Management (PM) Support | / 18.192 | - 10.333 | - 10.368 | - 11.052 | 1 | - 11.052 | - 11.294 | - 11.093 | 1 | 1 | 1 | 122.332 |
| Subtotal: Recurring | - /18.192 | - 10.333 | - 10.368 | - /1.052 | - / - | - /1.052 | - /1.294 | - /1.093 | - / - | 1 | 1 | /22.332 |
| Subtotal: M109 Family of Vehicles Program Office | - /18.192 | - 10.333 | - 10.368 | - /1.052 | - / - | - /1.052 | - /1.294 | - /1.093 | 1 | - / - | - / - | /22.332 |

Modification Item 2 of 13: Prior Years Closed
Modifications

\section*{| A Kits |
| :---: |
| Recurring |}


| Prior Closed Modifications | - 12,174.482 | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- |  | 1 - | - 12,174.482 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Recurring | - /2,174.482 | / - | - / - | - 1 - | / - | / - | - / - | - / - | - / - | - / - |  | 1 | - /2,174.482 |
| Subtotal: Prior Years Closed Modifications | - /2,174.482 | 1 - | 1 - | 1 | / - | 1 | / - | / - | - / - | / - |  | 1 - | - /2,174.482 |
| Modification Item 3 of 13: Interior Blast Mitigation Retrofit Hardware/Fielding (M109A7) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware | - 1- | 1- | $347 / 1.860$ | $800 / 4.535$ | 1- | $800 / 4.535$ | $600 / 3.469$ | $245 / 1.060$ | 1 - | 1 - |  | 1 | 1,992/10.924 |
| Subtotal: Recurring | - 1 - | 1 | 347 / 1.860 | $800 / 4.535$ | / - | 800/4.535 | $600 / 3.469$ | 245/1.060 | 1 | - / - |  | 1 - | 1,992/10.924 |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware | - 15.564 | - 1- | - 1- | 1 - | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1- |  | 1 - | - 15.564 |
| Subtotal: Non-Recurring | - 15.564 | 1 - | / - | / - | / - | 1 - | - 1- | 1- | 1 | 1 |  | 1 - | - $/ 5.564$ |
| Subtotal: Interior Blast Mitigation Retrofit Hardware/ Fielding (M109A7) | - /5.564 | / - | $347 / 1.860$ | 800/4.535 | / - | 800/4.535 | 600/3.469 | 245/1.060 | - 1 | 1 |  | 1 - | 1,992/16.488 |
| Modification Item 4 of 13: Chief of Section Protection (Inc. I) Hardware Fielding |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware | - 1- | - 1- | - 1- | 296/72.484 | - 1- | 296/72.484 | $124 / 30.972$ | $50 / 12.739$ | - 1- | - 1- |  | 1 | 470 / 116.195 |
| Subtotal: Non-Recurring | - / - | - 1 - | - 1 - | 296/72.484 | - 1 - | 296/72.484 | 124/30.972 | 50/12.739 | - 1 | - / - |  | / - | 470/116.195 |

## UNCLASSIFIED

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Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B

## P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications

Date: March 2023

## Modification Number / Title:

GA0400 / M109 FOV Modifications

MDAP/MAIS Code:

| Models of Systems Affected: M109 Howitzer and | Modification Type: Increase Performance | Related RDT\&E PEs: |
| :--- | :--- | :--- |
| M992 FAASV/CAT Vehicles |  |  |


| Financial Plan | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I 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) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Subtotal: Chief of Section Protection (Inc. I) Hardware Fielding | / - | / - | / - | 296/72.484 | 1 | 296/72.484 | $124 / 30.972$ | 50/12.739 | / - | / - | / - | 470/116.195 |
| Modification Item 5 of 13: Ventilation System Dust Cover |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware | - 1 - | - 1 - | - 1 - | $200 / 2.748$ | 1 | $200 / 2.748$ | 155/2.172 | 1 | 1 | 1 | 1 | 355/4.920 |
| Subtotal: Recurring | 1 - | / - | - 1 - | $200 / 2.748$ | 1 - | 200/2.748 | 155/2.172 | 1 | 1 | 1 | 1 | 355/4.920 |
| Subtotal: Ventilation System Dust Cover | - / - | 1 | 1 | $200 / 2.748$ | 1 | 200/2.748 | 155/2.172 | 1 | 1 | 1 | 1 | 355/4.920 |

Modification Item 6 of 13: Self-Propelled Howitzer
Crew Compartment Automated Fire Extinguishing
System Hardware and Fielding
A Kits


Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications

Date: March 2023

## Modification Number / Title:

GA0400 / M109 FOV Modifications

MDAP/MAIS Code:

Models of Systems Affected: M109 Howitzer and M992 FAASV/CAT Vehicles

Modification Type: Increase Performance

## Related RDT\&E PEs:

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Subtotal: Driver's Seatbelt Redesign Hardware | - / - | 1 | 1 | - / - | 1 | - / - | - / - | 469 / 2.165 | - / - | - / - | - / - | 469/2.165 |
| Modification Item 9 of 13: Floor Drainage Hardware |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Driver's Seatbelt Redesign HW | - 1 - | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1 | 467 / 12.917 | - 1- | 1 - | 1 | 467 / 12.917 |
| Subtotal: Non-Recurring | 1 - | 1 | 1 | 1 | 1 | 1 | 1 | $467 / 12.917$ | / - | 1 | 1 | 467/12.917 |
| Subtotal: Floor Drainage Hardware | - 1 - | - 1 - | - / - | - 1 - | - / - | - / - | - 1 - | 467/12.917 | / - | 1 | - 1 | 467/12.917 |
| Modification Item 10 of 13: Carrier, Ammunition, Tracked Tanker Bar/Crowbar Stowage Hardware |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| CAT Tanker Bar/Crowbar Stowage HW | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 | 229/2.534 | 1 | 1 | 1 | 229/2.534 |
| Subtotal: Non-Recurring | 1 | - / - | - $/$ - | - 1 - | - 1 - | - 1 - | - / - | 229 / 2.534 | 1 | - / - | - / - | 229 / 2.534 |
| Subtotal: Carrier, Ammunition, Tracked Tanker Bar/ Crowbar Stowage Hardware | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 229/2.534 | - 1 - | - 1 - | - 1 - | 229/2.534 |

Modification Item 11 of 13: Inadvertent Automated Fire
Extinguishing System (AFES) Sealed Soldered Switch

## Hardware

A Kits
Non-Recurring


Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications

## Date: March 2023

## Modification Number / Title:

GA0400 / M109 FOV Modifications

MDAP/MAIS Code:

Models of Systems Affected: M109 Howitzer and M992 FAASV/CAT Vehicles

Modification Type: Increase Performance
-

## Related RDT\&E PEs:

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | 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) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Fielding HW | - 1- | - 1- | - 1- | - 11.913 | 1 - | - 11.913 | - 11.951 | - 13.979 | - 1- | 1 | 1 | - 17.843 |
| Subtotal: Recurring | - 1 - | - 1 - | 1 - | - $/ 1.913$ | 1 - | - 11.913 | - 11.951 | - 13.979 | - 1 | - 1 | - 1 | - 17.843 |
| Subtotal: Fielding Hardware | 1 | 1 | 1 | - /1.913 | 1 | - 11.913 | - /1.951 | - 13.979 | 1 - | 1 | 1 - | - 17.843 |
| Subtotal: Procurement, All Modification Items | - /2,198.238 | - 10.333 | $367 / 3.028$ | 1,496/90.986 | / - | 1,496/90.986 | 1,065/47.688 | 2,364/46.361 | - / - | / - | - / - | $\begin{array}{r} 5,2921 \\ 2,386.634 \end{array}$ |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 3 of 13: Interior Blast Mitigation Retrofit Hardware/Fielding (M109A7) | 1 - | 1 | 685। - | 800। - | - 1 - | 800/ - | 6001 - | 245। - | - 1 - | - 1 - | 1 | 2,330 I |
| Modification Item 4 of 13: Chief of Section Protection (Inc. I) Hardware Fielding | 1 - | 1 - | 1 | 296/ - | - 1 - | 296/ - | 124 / - | 501 - | 1 | - 1 - | 1 - | 470 / - |
| Modification Item 5 of 13: Ventilation System Dust Cover | 1 | 1 | - 1 - | 2001 - | - 1 - | 2001 - | 1931 - | 117 / - | - 1 - | 1 | 1 - | 5101 - |
| Modification Item 6 of 13: Self-Propelled Howitzer Crew Compartment Automated Fire Extinguishing System Hardware and Fielding | 1 - | 1 - | 1 | 120/ - | 1 | 120/ - | 193/ - | 93/ - | - 1 - | - 1 - | - 1 - | 406/ - |
| Modification Item 7 of 13: Self-Propelled Howitzer Rearview Camera Hardware | - 1 - | 1 - | 1 - | 1 | 1 | 1 | 1 | 1 | 211/ - | - 1 - | 1 - | 211/ - |
| Modification Item 8 of 13: Driver's Seatbelt Redesign Hardware | 1 - | 1 - | 1 | - 1 - | 1 | 1 | - 1 - | - 1 - | 469 / - | - 1 - | - 1- | 469 / - |
| Modification Item 9 of 13: Floor Drainage Hardware | 1 - | - 1 - | - 1 - | - 1 | - 1 | - 1 | - 1 | - 1 | 4671 - | - 1- | - 1- | 4671 - |
| Modification Item 10 of 13: Carrier, Ammunition, Tracked Tanker Bar/Crowbar Stowage Hardware | - 1- | - 1 - | - 1- | 1 - | 1 - | 1 | 1 | 1 | 2291 - | - 1 | 1 | 2291 - |
| Modification Item 11 of 13: Inadvertent Automated Fire Extinguishing System (AFES) Sealed Soldered Switch Hardware | - 1 - | - 1 - | - 1- | 1 - | - 1 - | - 1 - | - 1 | - 1 | 469 / - | - 1 - | 1 - | 469 / - |
| Modification Item 12 of 13: VanAxiel Fan Hardware | 1 | - 1- | 1 | 1 | - 1 - | - 1 - | - 1 - | - 1 - | 2241 - | 1 | 1 | 2241 - |
| Subtotal: Installation | - 1 - | 1 - | 685/ - | 1,416 / - | - 1 - | 1,416/ - | 1,110 / - | 505/ - | 2,069 / - | - 1 | - / - | 5,785 / - |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 2,198.238 | 0.333 | 3.028 | 90.986 | - | 90.986 | 47.688 | 46.361 | - | - | - | 2,386.634 |

UNCLASSIFIED


UNCLASSIFIED


## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B

Date: March 2023
P-1 Line Item Number / Title:
Modification Number / Title:
GA0400 / M109 FOV Modifications

Modification Item 3 of 13: Interior Blast Mitigation Retrofit Hardware/Fielding (M109A7)

## Manufacturer Information

| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 2 |  |  |  | Production Leadtime (in Months): 6 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  | Dec 2023 | Dec 2024 | Dec 2025 |  |  |
| Delivery Dates |  |  | Jun 2024 | Jun 2025 | Jun 2026 |  |  |

Installation Information


Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B

Date: March 2023

## Modification Number / Title:

GA0400 / M109 FOV Modifications

## P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications

MDAP/MAIS Code:
Modification Item 4 of 13: Chief of Section Protection (Inc. I) Hardware Fielding

## Manufacturer Information

| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 2 |  |  |  | Production Leadtime (in Months): 3 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  | Jun 2024 | Mar 2025 | Mar 2026 |  |  |
| Delivery Dates |  |  | Sep 2024 | Jul 2025 | Jul 2026 |  |  |

Installation Information
Method of Implementation:

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | $0 / 0.000$ | - 1 - | - 1- | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 - |
| FY 2022 | $0 / 0.000$ | - 1 - | - 1- | - 1 - | 1 - | 1 - | - 1 | - 1 - | - 1 - | - 1 - | - 1 | - 1 |
| FY 2023 | $0 / 0.000$ | 1 - | - 1 - | - 1 - | 1 - | 1 | 1 | - 1 | - 1 - | - 1 - | 1 | 1 |
| FY 2024 | 1 - | 1 - | - 1 - | $296 / 0.000$ | 1 | 296/0.000 | 1 | 1 | - 1- | - 1 - | - 1 | $296 / 0.000$ |
| FY 2025 | 1 - | - 1 - | - 1 - | - 1 - | 1 | 1 | $124 / 0.000$ | 1 - | - 1 - | -1 | - 1 | $124 / 0.000$ |
| FY 2026 | 1 | - 1 - | - 1 | 1 | 1 | 1 | 1 | $50 / 0.000$ | 1 | - 1 - | 1 | $50 / 0.000$ |
| FY 2027 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 | 1 | - 1 - | 1 - | - 1 - | 1 | - 1 - |
| FY 2028 | 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 | 1 | 1 - | 1 - | - 1 - | - 1 | 1 |
| To Complete | 1 - | 1 - | - 1 - | - 1 - | 1 - | 1 | 1 | 1 | 1 - | -1- | 1 | 1 |
| Total | - 1- | - 1- | - 1- | 296/0.000 | - 1- | 296/0.000 | 124/0.000 | $50 / 0.000$ | - 1- | - 1- | - 1- | $470 / 0.000$ |

Installation Schedule


Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B
Modification Item 5 of 13: Ventilation System Dust Cover


Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title:

 2072GA0400 / M109 FOV ModificationsDate: March 2023
Modification Number / Title:
GA0400 / M109 FOV Modifications

MDAP/MAIS Code:
Modification Item 6 of 13: Self-Propelled Howitzer Crew Compartment Automated Fire Extinguishing System Hardware and Fielding

## Manufacturer Information

| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): 12 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  | Oct 2023 | Oct 2024 |  |  |  |
| Delivery Dates |  |  | Oct 2024 | Oct 2024 |  |  |  |

Installation Information
Method of Implementation:

|  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | 010.000 | 1- | 1 - | 1 - | - 1 - | - 1 - | - 1 | - 1 | - 1 | - 1 | - 1 - | - 1 - |
| FY 2022 | $0 / 0.000$ | 1 | 1. | 1 | 1 - | - 1 | 1 | 1 | 1 | 1 | 1 | - 1 |
| FY 2023 | 1 - | 1 | 1 | $20 / 0.000$ | 1 | $20 / 0.000$ | 1 | 1 | - 1 - | 1 | - 1 - | $20 / 0.000$ |
| FY 2024 | 1 | 1 | - 1 - | $100 / 0.000$ | 1 - | $100 / 0.000$ | $100 / 0.000$ | - 1 - | - 1 - | - 1 - | - 1 - | $200 / 0.000$ |
| FY 2025 | 1 - | 1 | 1 | - 1 - | - 1 - | - 1 | $93 / 0.000$ | 93/0.000 | 1 | 1 | - 1 - | 186/0.000 |
| FY 2026 | 1 | 1 | 1 | 1 | 1 - | - 1 | - 1 | - 1 - | 1 | 1 | 1 - | - 1 - |
| FY 2027 | - 1 - | 1 - | 1 - | - 1 | - 1 - | - 1 | - 1 | - 1 - | 1 - | 1 | 1 - | - 1 - |
| FY 2028 | 1 - | 1 - | 1 - | - 1 - | - 1- | - 1- | - 1 - | - 1 | 1 - | 1 - | 1 - | 1 - |
| To Complete | 1 - | 1 | 1 - | 1 - | 1 - | - 1- | - 1 - | - 1 - | 1 - | 1 - | 1 - | - 1 - |
| Total | - 1 - | - 1 - | - 1 - | $120 / 0.000$ | - 1 - | $120 / 0.000$ | 193/0.000 | $93 / 0.000$ | - 1 - | - 1 - | - 1 - | $406 / 0.000$ |

Installation Schedule


Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B

Date: March 2023
P-1 Line Item Number / Title:
Modification Number / Title:
GA0400 / M109 FOV Modifications

MDAP/MAIS Code:
Modification Item 7 of 13: Self-Propelled Howitzer Rearview Camera Hardware

## Manufacturer Information

| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): 9 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  |  |  | Jun 2026 |  |  |
| Delivery Dates |  |  |  |  | Mar 2027 |  |  |

Installation Information
Method of Implementation:

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | $0 / 0.000$ | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| FY 2022 | 010.000 | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 - | - 1 - | - 1 |
| FY 2023 | $0 / 0.000$ | - 1 - | - 1 - | 1 - | 1 - | 1 - | - 1 | 1 - | - 1 | - 1 - | - 1 | - 1 |
| FY 2024 | $0 / 0.000$ | 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 | 211/0.000 | 1 | - 1 | 211/0.000 |
| FY 2027 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 | 1 - | 1 - | - 1 - | - 1 - | - 1 - |
| FY 2028 | 1 - | - 1 - | - 1- | - 1- | 1 - | 1 - | 1 | 1 - | 1 - | - 1- | - 1 - | 1 |
| To Complete | 1 - | 1 - | - 1 - | 1 - | 1 - | 1 - | 1 | 1 - | 1 - | -1- | - 1 - | 1 |
| Total | - 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | 211/0.000 | - 1- | - 1- | 211/0.000 |

Installation Schedule


Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B

Date: March 2023

## Modification Number / Title:

GA0400 / M109 FOV Modifications

## P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications

MDAP/MAIS Code:
Modification Item 8 of 13: Driver's Seatbelt Redesign Hardware

## Manufacturer Information

| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): 9 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  |  |  | Jun 2026 |  |  |
| Delivery Dates |  |  |  |  | Mar 2027 |  |  |

Installation Information
Method of Implementation:

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | $0 / 0.000$ | 1 - | - 1- | - 1 - | 1 - | 1- | - 1- | - 1 - | - 1 - | - 1 - | - 1 | - 1 |
| FY 2022 | $0 / 0.000$ | 1 - | - 1 - | 1 - | 1 | 1 | 1 | 1 | - 1 | - 1 | - 1 | 1 |
| FY 2023 | $0 / 0.000$ | 1 - | 1 | 1 | 1 | - 1 - | 1 | 1 | - 1 | - 1 | 1 | 1 |
| FY 2024 | $0 / 0.000$ | 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 | 469 / 0.000 | -1 | 1 | 469 / 0.000 |
| FY 2027 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 | 1 - | - 1 - | - 1 - | - 1 | 1 |
| FY 2028 | 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | 1 |
| To Complete | 1 - | - 1 - | - 1- | 1 - | 1 - | 1 - | 1 - | 1 - | - 1 - | - 1- | - 1 - | 1 - |
| Total | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 469 / 0.000 | - 1 - | - 1 - | $469 / 0.000$ |

Installation Schedule

|  | PYS | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | FY 2028 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 469 | - | - | - | - | - | - | - | - | - | - | 469 |
| Out | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 117 | 117 | 117 | 118 | - | - | - | - | 469 |

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B
Modification Item 9 of 13: Floor Drainage Hardware

## Manufacturer Information

| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): 9 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  |  |  | Jun 2026 |  |  |
| Delivery Dates |  |  |  |  | Mar 2027 |  |  |

Installation Information
Method of Implementation:

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | $0 / 0.000$ | 1 - | - 1- | - 1 - | 1 - | 1- | - 1- | - 1 - | - 1 - | - 1 - | - 1 | 1 |
| FY 2022 | $0 / 0.000$ | 1 - | - 1 - | 1 - | 1 | 1 | 1 | 1 | - 1 | - 1 | - 1 | 1 |
| FY 2023 | $0 / 0.000$ | 1 - | 1 | 1 | 1 | - 1 - | 1 | 1 | - 1 | - 1 | 1 | 1 |
| FY 2024 | $0 / 0.000$ | 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 | $467 / 0.000$ | 1 | 1 | $467 / 0.000$ |
| FY 2027 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 | 1 - | - 1 - | - 1 - | - 1 | 1 |
| FY 2028 | 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | 1 |
| To Complete | 1 - | - 1 - | - 1- | 1 - | 1 - | 1 - | 1 - | 1 - | - 1- | - 1- | - 1 - | - 1- |
| Total | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | $467 / 0.000$ | - 1 - | - 1 - | $467 / 0.000$ |

Installation Schedule

|  | PYS | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | FY 2028 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 467 | - | - | - | - | - | - | - | - | - | - | 467 |
| Out | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 117 | 117 | 117 | 116 | - | - | - | - | 467 |

## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B

Date: March 2023
Modification Number / Title:
GA0400 / M109 FOV Modifications

Modification Item 10 of 13: Carrier, Ammunition, Tracked Tanker Bar/Crowbar Stowage Hardware


## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B

Date: March 2023
P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications

## Modification Number / Title:

GA0400 / M109 FOV Modifications

MDAP/MAIS Code:
Modification Item 11 of 13: Inadvertent Automated Fire Extinguishing System (AFES) Sealed Soldered Switch Hardware

## Manufacturer Information

| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): 9 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  |  |  | Jun 2026 |  |  |
| Delivery Dates |  |  |  |  | Mar 2027 |  |  |

Installation Information
Method of Implementation:

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | $0 / 0.000$ | 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | - 1 | 1 | - 1 |
| FY 2022 | $0 / 0.000$ | 1 - | - 1- | 1 - | 1 - | 1 - | 1 - | 1 - | - 1- | - 1 | 1 | 1 |
| FY 2023 | $0 / 0.000$ | 1 - | - 1- | 1 - | 1 | 1 | 1 | 1 - | - 1 - | - 1 - | 1 | 1 |
| FY 2024 | $0 / 0.000$ | 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 - | 469 / 0.000 | - 1 | - 1 - | 469 / 0.000 |
| FY 2027 | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 | - 1 |
| FY 2028 | - 1 - | - 1 - | - 1- | - 1- | 1 - | 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | 1 |
| To Complete | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 |
| Total | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | 469 / 0.000 | - 1 - | - 1 | $469 / 0.000$ |

Installation Schedule

|  | PYS | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | FY 2028 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 469 | - | - | - | - | - | - | - | - | - | - | 469 |
| Out | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 117 | 117 | 117 | 118 | - | - | - | - | 469 |

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : B

Modification Item 12 of 13: VanAxiel Fan Hardware

## Manufacturer Information

| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): 9 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  |  |  | Jun 2026 |  |  |
| Delivery Dates |  |  |  |  | Mar 2027 |  |  |

Installation Information
Method of Implementation:

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | $0 / 0.000$ | - 1 - | - 1- | - 1 - | - 1- | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| FY 2022 | 010.000 | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 |
| FY 2023 | $0 / 0.000$ | - 1 - | - 1 - | 1 - | 1 - | 1 - | 1 - | 1 - | - 1 | - 1 | 1 | 1 |
| FY 2024 | $0 / 0.000$ | 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 - | $224 / 0.000$ | - 1 | 1 | 224/0.000 |
| FY 2027 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 | 1 - | 1 - | - 1 - | - 1 - | 1 - | 1 - |
| FY 2028 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | 1 - | - 1 | - 1 - | 1 | 1 |
| To Complete | 1 - | 1 - | - 1- | 1 - | 1 - | 1 | 1 | 1 - | 1 - | - 1 - | 1 | 1 |
| Total | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1- | - 1- | 224/0.000 | - 1- | - 1- | 224/0.000 |

Installation Schedule


UNCLASSIFIED


## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A

## P-1 Line Item Number / Title:

2073 GZ0410 / Paladin Integrated Management (PIM)

Line Item MDAP/MAIS Code: 466

| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 309 | 43 | 43 | 24 | - | 24 | 22 | 37 | 40 | 39 | 135 | 692 |
| Gross/Weapon System Cost (\$ in Millions) | 3,649.402 | 662.900 | 680.089 | 469.152 | - | 469.152 | 444.189 | 594.346 | 643.854 | 644.484 | 2,285.972 | 10,074.388 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 3,649.402 | 662.900 | 680.089 | 469.152 | - | 469.152 | 444.189 | 594.346 | 643.854 | 644.484 | 2,285.972 | 10,074.388 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 3,649.402 | 662.900 | 680.089 | 469.152 | - | 469.152 | 444.189 | 594.346 | 643.854 | 644.484 | 2,285.972 | 10,074.388 |
| (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) | 11,810.362 | 15,416.279 | 15,816.023 | 19,548.000 | - | 19,548.000 | 20,190.409 | 16,063.405 | 16,096.350 | 16,525.231 | 16,933.126 | 14,558.364 |

## Description:

This funding line is a key enabler of the Army Modernization Priorities in support of Long-Range Precision Fires.







 extend the life of the M109 FOV

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 <br> Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 31 | 24 | 12 | - | 12 | 11 | 19 | 20 | 19 |
|  | Total Obligation Authority | 477.904 | 382.354 | 254.222 | - | 254.222 | 239.122 | 299.492 | 340.046 | 340.676 |
| ANG | Quantity | 12 | 19 | 12 | - | 12 | 11 | 18 | 20 | 20 |
|  | Total Obligation Authority | 184.996 | 297.735 | 214.930 | - | 214.930 | 205.067 | 294.854 | 303.808 | 303.808 |
| Total: <br> Secondary Distribution | Quantity | 43 | 43 | 24 | - | 24 | 22 | 37 | 40 | 39 |
|  | Total Obligation Authority | 662.900 | 680.089 | 469.152 | - | 469.152 | 444.189 | 594.346 | 643.854 | 644.484 |

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

## Appropriation / Budget Activity / Budget Sub Activity:

## P-1 Line Item Number / Title:

| 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: | 2073GZ0410 / Paladin Integrated Management (PIM) |
| :--- | :--- | :--- |
| Modification of Tracked Combat Vehicles |  |


| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0203743A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 466 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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 | GZ0410 / Paladin Integrated Management (PIM) | P-5a, P-21 | A |  | 309 / 3,649.402 | 43/662.900 | 43/680.089 | 24 / 469.152 | - 1- | 24 / 469.152 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 309 / 3,649.402 | 43/662.900 | 43 / 680.089 | 24/469.152 | - 1 - | 24 / 469.152 |

*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. The unit cost represents a cost per vehicle set (1 Self Propelled Howitzer (SPH) and 1 Carrier Ammunition Tracked (CAT)).

This funding line is a key enabler of the Army Modernization Priorities in support of Long-Range Precision Fires.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objective (AAO): 689 sets


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| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Bud 2033A / 01 / 20 |  |  | et Sub Activity: | P-1 Line Item Number / Title: <br> 2073GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |  |  |  |  |
| 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 (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| MANUFACTURING ${ }^{(+)}$ |  | 2022 | BAE / York | SS/FPIF | TACOM, Warren, MI | Oct 2022 | Oct 2024 | 40 | 10,737.950 | N |  |  |
| MANUFACTURING ${ }^{(+)}$ |  | 2023 | BAE / York | SS/FPIF | TACOM, Warren, MI | Apr 2023 | Aug 2025 | 43 | 9,852.140 | N |  |  |
| MANUFACTURING ${ }^{(\dagger)}$ |  | 2024 | BAE / York | SS/FPIF | TACOM, Warren, MI | Mar 2024 | Aug 2026 | 24 | 11,592.667 | N |  |  |

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

## Remarks:

Quantity:

- The FY 2022 quantity will be updated to reflect 40 vehicle sets (vs. 43 shown on the P-40) based on follow-on award in February 2023 for 40 vehicle sets which will definitize in 3rd quarter FY 2023.

Unit Cost:

- The FY 2024 increase in unit manufacturing cost estimate is due to the lower quantity and higher than anticipated economic rates and market circumstances.

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2073GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | B <br> A <br> L <br> A <br> N <br> C <br> E |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|} \hline \mathbf{O} \\ \mathrm{C} & \mathrm{~F} \\ \mathrm{O} & \mathrm{R} \\ \hline \end{array}$ | FY | SERVICE | PROC OTY | PRIOR TO 1 OCT 2022 | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \text { o } \\ & \text { c } \\ & \text { T } \end{aligned}$ | N O v | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br> P <br> R | M A Y | J u N | J L | A U G | S E P | O | N | D <br> E <br> C | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | F E B | M <br>  <br> R | A <br> P <br> R | M | J u N | ${ }_{\text {J }}$ | A U G | S <br>  <br> $\mathbf{E}$ <br> $\mathbf{P}$ |  |
| MANU | FACTU | RING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | Years Dein | liveries: 310 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 40 | 0 | 40 | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - |  | - |  | - | - | 40 |
| 1 | 2023 | ARMY | 43 | 0 | 43 |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - |  | - |  | - | - | 43 |
| 1 | 2024 | ARMY | 24 | 0 | 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - |  | - |  | - | - | 24 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | F | M A R | A <br>  <br> P <br> R | M | J u N | J | A | S E P | O c T | N | D E C | $\begin{aligned} & \hline \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> P <br> R | M | J U N | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 2073GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2026 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2026 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|c\|c\|c\|c\|c\|c\|c\|c\|c\|} \hline 0 & \mathrm{~F} \\ \mathrm{c} & \mathrm{R} \\ \mathrm{O} & \# \end{array}$ | FY | SERVICE | PROC | $\begin{array}{l\|l\|} \hline \text { TO } 1 \\ \text { OCT } \\ 2024 \end{array}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & J \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & F \\ & E \\ & E \\ & B \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | A P R | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathbf{u} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~L} \end{aligned}$ | A U G | S E P | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | D <br> E <br> C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br>  <br> P <br> R | M A Y | J U N | J | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| MANU | FACTU | RING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | Years Dein | liveries: 310 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 40 | 0 | 40 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 |  | 3 |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2023 | ARMY | 43 | 0 | 43 | - | - | - | - | - | - | - | - | - | - |  | 4 | 4 | 4 | 4 |  | 4 | 3 |  |  | 3 |  |  |  | 0 |
| 1 | 2024 | ARMY | 24 | 0 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - |  | 2 | 2 | 20 |
|  |  |  |  |  |  | O c T T | N | D E C | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & A \\ & R \end{aligned}$ | A <br>  <br> P <br> R | $\begin{gathered} \hline \mathrm{M} \\ \mathrm{~A} \end{gathered}$ | J U N | J | A | S E P | O c T | N | D E C | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br> P <br> R | M ${ }_{\text {M }}^{\text {M }}$ | J U N | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  | P-1 Line Item Number / Title: 2073GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  | Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM) |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2024 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2024 | 1-8-5 For 2024 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | 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 <br> After Oct 1 |
| 1 | BAE - York | 2 | 4 | 5 |  | 15 | 30 | 45 | 0 | 15 | 30 | 45 |

## Remarks:

Quantity:

- FY 2022: Quantity awarded will be 40 vehicle sets (vs. 43 shown on the P-40), Follow-on Award of Early Order Material (EOM) for 40 vehicle sets in February 2023 and will definitize the award in 3rd quarter FY2023.
" 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 2024 Army
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A

## P-1 Line Item Number / Title:

3700GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES)

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: 539

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 933 | 0 | 21 | - | - | - | 14 | 12 | 14 | 14 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 2,898.083 | 51.725 | 132.203 | 41.058 | - | 41.058 | 151.351 | 158.437 | 153.870 | 144.625 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 2,898.083 | 51.725 | 132.203 | 41.058 | - | 41.058 | 151.351 | 158.437 | 153.870 | 144.625 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 2,898.083 | 51.725 | 132.203 | 41.058 | - | 41.058 | 151.351 | 158.437 | 153.870 | 144.625 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 3,106.198 | - | 6,295.381 | - | - | - | 10,810.786 | 13,203.083 | 10,990.714 | 10,330.357 | Continuing | Continuing |

## Description:













 York, PA, and associated vendors.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | 9 | - | - | - | 14 | 12 | 14 | 14 |
|  | Total Obligation Authority | 51.725 | 84.270 | 41.058 | - | 41.058 | 151.351 | 158.437 | 153.870 | 144.625 |
| ANG | Quantity | - | 12 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 47.933 | - | - | - | - | - | - | - |
| Total: | Quantity | - | 21 | - | - | - | 14 | 12 | 14 | 14 |

LI 3700GA0570 - IMPROVED RECOVERY VEHICLE (M88 HERCULES) Army

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Page 1 of 6
P-1 Line \#9

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| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles |  |  |  |  | P-1 Line Item Number / Title: <br> 3700GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES) |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | FY 2024 Total 41.058 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Secondary Distribution | Total Obligation Authority | 51.725 | 132.203 | 41.058 | - |  | 151.351 | 158.437 | 153.870 | 144.625 |

Exhibit P-40, Budget Line Item Justification: PB 2024 Army
Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20:
Modification of Tracked Combat Vehicles

## P-1 Line Item Number / Title:

3700GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES) Modification of Tracked Combat Vehicles

| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 539 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES) | P-5a | A |  | 933/2,898.083 | $0 / 51.725$ | 21 / 132.203 | - /41.058 | - 1 - | 141.058 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 933/2,898.083 | $0 / 51.725$ | 21 / 132.203 | - $/ 41.058$ | - 1 - | 141.058 |

*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:




 being produced and fielded.



 system (APU), special tools delta kits, improvements to automotive performance related to braking, and other operation and safety improvements.
 defense missions, domestic emergency responses, and providing military support to civil authorities.


## Remarks:

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2024 Army | Date: March 2023 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $2033 A / 01 / 20$ | P-1 Line Item Number / Title: <br> $3700 \mathrm{GAO570} /$ IMPROVED RECOVERY VEHICLE (M88 <br> HERCULES) | Item Number / Title [DODIC]: <br> GA0570 / IMPROVED RECOVERY <br> VEHICLE (M88 HERCULES) |

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

## MDAP/MAIS Code:

Modification funding should not be included in the unit cost. The calculation for unit cost is the sum of M88 Vehicle Manufacturing Contractor, Vehicle Manufacturing Government Furnished Equipment (GFE), Hull Reclamation, Fielding (TPF) \& (NET), and Transportation divided by vehicle quantity.

The Average Procurement Unit Cost (APUC) for FY 2023 is $\$ 3.895 \mathrm{M}$ for a quantity of 21 M88A2s.
 vehicles. Due to the timing of receipt of funding and the contracting administrative process, the planned FY 2023 contract award shifted from June 2023 to November 2023.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | 9 | - | - | - |
|  | Total Obligation Authority | 51.725 | 84.270 | 41.058 | - | 41.058 |
| ANG | Quantity | - | 12 | - | - | - |
|  | Total Obligation Authority | - | 47.933 | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 0 | 21 | - | - | $\bullet$ |
|  | Total Obligation Authority | 51.725 | 132.203 | 41.058 | $\bullet$ | 41.058 |

[^1]UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A/01/20 |  |  |  | P-1 Line Item Number / Title: <br> 3700GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES) |  |  |  | Item Number / Title [DODIC]: <br> GA0570 / IMPROVED RECOVERY VEHICLE (M88 HERCULES) |  |  |  |  |
| 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 (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| M88 Vehicle Manufacturing Contractor |  | 2023 | BAE Systems / Anniston, AL | C/FFP | Detroit Arsenal, MI | Nov 2023 | Feb 2025 | 21 | 3,295.667 | Y |  |  |

## Remarks:

 of funding and the contracting administrative process, the planned FY 2023 contract award shifted from June 2023 to November 2023

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles

Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
4520GZ3250 / Assault Bridge (Mod)

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

| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 384.674 | 2.136 | - | - | - | - | - | 5.369 | 6.167 | 6.167 | - | 404.513 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 384.674 | 2.136 | - | - | - | - | - | 5.369 | 6.167 | 6.167 | - | 404.513 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 384.674 | 2.136 | - | - | - | - | - | 5.369 | 6.167 | 6.167 | - | 404.513 |
| (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) | 5,574.986 | 534.000 | - | - | - | - | - | 536.900 | 513.917 | 513.917 | - | 3,780.495 |

## Description:

The Assault Bridge (MOD) budget line funds the modifications of assault bridging equipment. It is used to procure hardware, materials, and hardware installation cost required to complete the modification. Modifications are performed to improve survivability, correct safety deficiencies, increase mission capabilities, extend the useful life, improve supportability, upgrade existing technology, increase efficiency, improve readiness, reduce risk of obsolescence and to meet new legal and regulatory requirements. By modifying existing equipment, the Army maintains a ready, supportable inventory of equipment that meets current requirements and regulations at a cost considerably below that of buying new equipment.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.136 | - | - | - | - | - | 5.369 | 6.167 | 6.167 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.136 | - | - | - | - | - | 5.369 | 6.167 | 6.167 |

## Justification:

There is no FY 2024 budget request for this funding line.
In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20:

## P-1 Line Item Number / Title:

5129G80571 / M88 FOV MODS
Modification of Tracked Combat Vehicles

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program El | ents for Cod | B Items: N |  |  | Other Relat | Program E | ments: 020373 | 35A |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 154.272 | 0.334 | - | - | - | - | - | - | - | - | - | 154.606 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 154.272 | 0.334 | - | - | - | - | - | - | - | - | - | 154.606 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 154.272 | 0.334 | - | - | - | - | - | - | - | - | - | 154.606 |
| (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:



 braking, and special tools delta kits.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.334 | - | - | - | - | - | - | - | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.334 | - | - | - | - | - | - | - | - |

## Justification:

There is no FY 2024 budget request for this funding line.
The M88 Modification efforts and funding for the 5129G80571 / M88 FOV MODS, were realigned to 3700GA0570 / Improved Recovery Vehicle (M88A2 HERCULES), starting in FY 2022.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
5225GZ3001 / Joint Assault Bridge

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 97 | 17 | 6 | 24 | - | 24 | 29 | 22 | 28 | 34 | - | 257 |
| Gross/Weapon System Cost (\$ in Millions) | 552.540 | 110.588 | 36.990 | 159.804 | - | 159.804 | 180.097 | 142.708 | 179.259 | 213.572 | - | 1,575.558 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 552.540 | 110.588 | 36.990 | 159.804 | - | 159.804 | 180.097 | 142.708 | 179.259 | 213.572 | - | 1,575.558 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 552.540 | 110.588 | 36.990 | 159.804 | - | 159.804 | 180.097 | 142.708 | 179.259 | 213.572 | - | 1,575.558 |
| (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) | 5,696.289 | 6,505.176 | 6,165.000 | 6,658.500 | - | 6,658.500 | 6,210.241 | 6,486.727 | 6,402.107 | 6,281.529 | - | 6,130.576 |

## Description:






 March 2021.

Joint Assault Bridge (JAB) Army Acquisition Objective (AAO): 297

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 10 | 6 | 18 | - | 18 | 19 | 12 | 10 | 10 |
|  | Total Obligation Authority | 63.197 | 36.990 | 120.140 | - | 120.140 | 118.440 | 77.201 | 61.448 | 61.240 |
| ANG | Quantity | 7 | - | 6 | - | 6 | 10 | 7 | 10 | 10 |
|  | Total Obligation Authority | 47.391 | - | 39.664 | - | 39.664 | 61.657 | 43.574 | 64.677 | 62.696 |
| AR | Quantity | - | - | - | - | - | - | 3 | 8 | 14 |
|  | Total Obligation Authority | - | - | - | - | - | - | 21.933 | 53.134 | 89.636 |
| Total: <br> Secondary Distribution | Quantity | 17 | 6 | 24 | - | 24 | 29 | 22 | 28 | 34 |
|  | Total Obligation Authority | 110.588 | 36.990 | 159.804 | - | 159.804 | 180.097 | 142.708 | 179.259 | 213.572 |

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

## Appropriation / Budget Activity / Budget Sub Activity:

## P-1 Line Item Number / Title:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: 5225GZ3001 / Joint Assault Bridge
Modification of Tracked Combat Vehicles

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0604804A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | GZ3001 / Joint Assault Bridge | P-5a, P-21 | A |  | $97 / 552.540$ | 17 / 110.588 | $6 / 36.990$ | 24 / 159.804 | - 1 - | 24 / 159.804 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | $97 / 552.540$ | 17 / 110.588 | $6 / 36.990$ | 24 / 159.804 | - 1 - | 24 / 159.804 |

${ }^{*}$ 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:

 Army Depot (ANAD), including purchase of long lead material and subsequent production effort.
 $\$ 9.078$ million from FY 2023 due to reduction in submitted Combatant Command (COCOM) requirements.

 M48A5/M60 Armored Vehicle Launched Bridge (AVLB).
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-5, Cost Analysis: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 20
ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title: 5225GZ3001 / Joint Assault Bridge

Date: March 2023

## Item Number / Title [DODIC]:

GZ3001 / Joint Assault Bridge


| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 5225GZ3001 / Joint Assault Bridge |  |  |  |  |  |  |  | Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | $\begin{aligned} & \text { Unit Cost } \\ & (\$ K) \end{aligned}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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 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) | $\begin{aligned} & \text { Unit Cost } \\ & \qquad(\$ K) \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Simulator - Common Driver Trainer (CDT) Update | - | - | 10.482 | - | - | 3.121 | - | - | 0.304 | - | - | 0.362 | - | - | - | - | - | 0.362 |
| Interim Contractor Logistics Support (ICLS) | - | - | - | - | - | 0.746 | - | - | 0.320 | - | - | - | - | - | - | - | - | - |
| Reprogrammed dollars | - | - | - | - | - | 4.815 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 16.614 | - | - | 8.682 | - | - | 0.624 | - | - | 0.362 | - | - | - | - | - | 0.362 |
| Subtotal: Flyaway Cost | - | $\cdot$ | 552.540 | - | - | 110.588 | - | - | 36.990 | - | - | 159.804 | - | - | - | - | - | 159.804 |
| Gross/Weapon System Cost | 5,696.289 | 97 | 552.540 | 6,505.176 | 17 | 110.588 | 6,165.000 | 6 | 36.990 | 6,658.500 | 24 | 159.804 | - | - | - | 6,658.500 | 24 | 159.804 |

Remarks:
 material surcharges, overhead, and labor rates.

The FY 2023 to FY 2024 hardware contractual unit cost increase is mainly attributable to the addition of Bridge Launch Mechanism Armor Engineering Change Proposal.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 10 | 6 | 18 | - | 18 |
|  | Total Obligation Authority | 63.197 | 36.990 | 120.140 | - | 120.140 |
| ANG | Quantity | 7 | - | 6 | - | 6 |
|  | Total Obligation Authority | 47.391 | - | 39.664 | - | 39.664 |
| Total: <br> Secondary Distribution | Quantity | 17 | 6 | 24 | - | 24 |
|  | Total Obligation Authority | 110.588 | 36.990 | 159.804 | - | 159.804 |

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

UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 2033A / } 01 \text { / } 20$ |  |  |  | P-1 Line Item Number / Title: 5225GZ3001 / Joint Assault Bridge |  |  |  | Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge |  |  |  |  |
| 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 (\$K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Hardware - Full Rate Production (FRP) ${ }^{(\dagger)}$ |  | 2022 | DRS Sustainment Systems, Inc. I Saint Louis, MO | C/FFP | TACOM, Warren, MI | May 2022 | Jun 2023 | 17 | 1,241.588 | Y |  |  |
| Hardware - Full Rate Production (FRP) ${ }^{(\dagger)}$ |  | 2023 | DRS Sustainment Systems, Inc. / Saint Louis, MO | C/FFP | TACOM, Warren, MI | Oct 2022 | Jun 2024 | 6 | 1,192.167 | Y |  |  |
| Hardware - Full Rate Production (FRP) $^{(\dagger)}$ |  | 2024 | DRS Sustainment Systems, Inc. I Saint Louis, MO | C/FFP | Tacom, Warren,MI | Nov 2023 | Dec 2024 | 24 | 1,913.708 | Y |  |  |

[^2]UNCLASSIFIED

| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A/01/20 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 5225GZ3001 / Joint Assault Bridge |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \\ & \hline \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |
| O\|c|c | FY | SERVICE | PROC QTY | PRIOR TO 1 OCT 2021 | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N O v | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \underset{\mathrm{E}}{ } \end{aligned}$ | M A R | A <br>  <br> $\mathbf{p}$ <br> R | M A Y | J U N | ${ }_{\text {J }}^{\text {u }}$ | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \text { O } \\ & \text { v } \end{aligned}$ | D E C | $\begin{aligned} & J \\ & \text { A } \\ & \text { N } \end{aligned}$ | F E B | M A R | A <br> P <br> R | M | J | J u L | A U G | S E P |  |
| Hardw | are - Ful | Ill Rate Produ | ction (FRP) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | ears De | Reveries: 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 17 | 0 | 17 |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |  | 2 | 2 | 10 |
| 1 | 2023 | ARMY | 6 | 0 | 6 |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | 6 |
| 1 | 2024 | ARMY | 24 | 0 | 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 |
|  |  |  |  |  |  | $\stackrel{\text { O }}{\text { c }}$ | N O v | D E c | J A N | F | M A R | A P R | M A Y | J u N | J | A | S E P | 0 c T | N | D E c | J A N | F | M <br>  <br> R | A <br>  <br> P <br> R | M A Y | J | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 5225GZ3001 / Joint Assault Bridge |  |  |  |  |  |  |  |  |  |  |  | Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ACCEPT |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |
| O  <br> C F <br> R  <br> O $\#$ | FY | SERVICE | PROC QTY | $\begin{gathered} \text { TO } 1 \\ \text { OCT } \\ 2023 \end{gathered}$ | $\begin{gathered} \text { DAL } \\ \text { DUE } \\ \text { AS OF } \\ 10 \mathrm{OCT} \end{gathered}$ | - | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br>  <br> P <br> R | M A Y | J U | J | A U G | S E P | O c T | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\underset{\mathrm{E}}{\mathrm{E}}$ | M A R | A <br>  <br> $\mathbf{P}$ <br> $\mathbf{R}$ | M A Y | J N | ${ }_{\text {u }}^{\text {u }}$ | A | S E P |  |
| Hardw | Fre - Ful | Ill Rate Produ | ction (FRP) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | ears De | eliveries: 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 17 | 7 | 10 | 2 | 2 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2023 | ARMY | 6 | 0 | 6 | - | - | - | - | - | - | - | - | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2024 | ARMY | 24 | 0 | 24 |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |  |  | 3 |  |  | 3 | 3 |  |  | 0 |
|  |  |  |  |  |  | O c T | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \hline \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br> P <br> R | M A Y | J U | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \end{aligned}$ | A U G | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A P R | M A Y | J N | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  | P-1 Line Item Number / Title: <br> 5225GZ3001 / Joint Assault Bridge |  |  |  |  | Item Number / Title [DODIC]: GZ3001 / Joint Assault Bridge |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | MSR For 2024 | 1-8-5 For 2024 | MAX For 2024 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | 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 | DRS Sustainment Systems, Inc. - Saint Louis, MO | 2 | 2 | 4 | 0 | 5 | 14 | 19 | 0 | 2 | 13 | 15 |

## "A" in the Delivery Schedule indicates the Contract Award Date


 thousand).If the maximum quantity is equal or greater than $1,000,000,000$ all quantities are shown in billions (rounded to the nearest million).
Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20:
Modification of Tracked Combat Vehicles

## P-1 Line Item Number / Title:

6500GA0750 / Abrams Upgrade Program

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0203735A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 1,879 | 90 | 90 | 34 | - | 34 | 45 | 49 | 21 | 70 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 14,652.881 | 1,145.837 | 1,247.340 | 697.883 | - | 697.883 | 1,085.453 | 1,207.482 | 700.564 | 1,548.754 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | 2,064.494 | - | - | - | - | - | 102.440 | 111.455 | 59.992 | 144.359 | - | 2,482.740 |
| Net Procurement (P-1) (\$ in Millions) | 12,588.387 | 1,145.837 | 1,247.340 | 697.883 | - | 697.883 | 983.013 | 1,096.027 | 640.572 | 1,404.395 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | 2,064.494 | - | - | 102.440 | - | 102.440 | 111.455 | 59.992 | 144.359 | - | - | 2,482.740 |
| Total Obligation Authority (\$ in Millions) | 14,652.881 | 1,145.837 | 1,247.340 | 800.323 | - | 800.323 | 1,094.468 | 1,156.019 | 784.931 | 1,404.395 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 7,798.234 | 12,731.522 | 13,859.333 | 20,525.971 | - | 20,525.971 | 24,121.178 | 24,642.490 | 33,360.190 | 22,125.057 | Continuing | Continuing |

## Description:


 future Abrams tanks. The Abrams Program provides total package fielding and associated training devices to support fleet upgrades and modifications.





 Abrams Tank Production Program also mitigates SEPv3 tank obsolescence through Bill of Materiel (BOM) screening, last chance buys, and hardware refresh projects.


 via integration of a meteorological sensor, and improved onboard diagnostics.
 to the fielded Abrams family of vehicles either through field modifications at the unit or through application during vehicle recapitalization.

 3270GC0050 / Production Base Support funding line for greater transparency.

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| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles |  |  |  |  | P-1 Line Item Number / Title: <br> 6500GA0750 / Abrams Upgrade Program |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0203735A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Army | Quantity | - | - | - | - | - | 45 | 49 | 21 | 70 |
|  | Total Obligation Authority | - | - | 222.350 | - | 222.350 | 1,094.468 | 1,156.019 | 784.931 | 1,404.395 |
| ANG | Quantity | 90 | 90 | 34 | - | 34 | - | - | - | - |
|  | Total Obligation Authority | 1,145.837 | 1,247.340 | 577.973 | - | 577.973 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 90 | 90 | 34 | - | 34 | 45 | 49 | 21 | 70 |
|  | Total Obligation Authority | 1,145.837 | 1,247.340 | 800.323 | - | 800.323 | 1,094.468 | 1,156.019 | 784.931 | 1,404.395 |



## P-1 Line Item Number / Title:

6500GA0750 / Abrams Upgrade Program

## Modification of Tracked Combat Vehicles

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | her Related Program Elements: 0203735A |
| :---: | :---: | :---: |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-5 | GA0750 / Abrams Upgrade Program | P-5a, P-21 | A |  | 1,879 / 14,652.881 | 90/1,145.837 | 90 / 1,247.340 | 34 / 697.883 | - 1 - | 34 / 697.883 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1,879 / 14,652.881 | 90/1,145.837 | 90/1,247.340 | $34 / 697.883$ | 1. | 34/697.883 |

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

## Justification:

FY 2024 Base Procurement dollars in the amount of $\$ 697.883$ million supports the following:




 Energy Savings Performance Contract (ESPC) payments, manufacturing studies, security, inspections, and emergency minor repairs.


 via integration of a meteorological sensor, and improved onboard diagnostics.

 the installation of the improved Active Protection System, which is critical to counter anti-armor capabilities in near-peer adversaries.

 Situational Awareness (SA) variant as the seed for all 34 tank upgrades.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-5, Cost Analysis: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

2033A / 01 / 20
ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title:

 6500GA0750 / Abrams Upgrade ProgramDate: March 2023

## Item Number / Title [DODIC]:

GA0750 / Abrams Upgrade Program


| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 6500GA0750 / Abrams Upgrade Program |  |  |  |  |  |  |  | Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| Industrial Base <br> Mitigation Support/ <br> Facilities Optimization <br> and Maintenance | - | - | 185.463 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 14,651.088 | - | - | 1,145.837 | - | - | 1,247.340 | - | - | 697.883 | - | - | - | - | - | 697.883 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FY 2019 NDAA SEC 825 MDAP Cost Overrun | - | - | 1.793 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 1.793 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Flyaway Cost | - | - | 14,652.881 | - | - | 1,145.837 | - | - | 1,247.340 | - | - | 697.883 | - | - | - | - | - | 697.883 |
| Gross/Weapon System Cost | 7,798.234 | 1,879 | 14,652.881 | 12,731.522 | 90 | 1,145.837 | 13,859.333 | 90 | 1,247.340 | 20,525.971 | 34 | 697.883 | - | - | - | 20,525.971 | 34 | 697.883 |

## Remarks:

 Total Package Fielding (TPF) divided by vehicle quantity.

- The Average Procurement Unit Cost (APUC) for FY 2024 is $\$ 16.999$ million for a quantity of 34 M1A2 SEPv3 tanks using the M1A1 SA as the seed vehicle for all 34 tank upgrades.

- The Average Procurement Unit Cost (APUC) for FY 2022 is $\$ 9.484$ million for a quantity of 90 M1A2 SEPv3 tanks using the M1A2 SEPv2 as the seed vehicle for all 90 tank upgrades.
- Beginning in FY 2022 the Transmissions and Forward Looking Infra-Red (FLIR) technology costs were rolled into the Government Furnished Equipment (GFE) line.
 provide greater transparency of those efforts.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{aligned} & \text { FY } 2024 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 222.350 | - | 222.350 |
| ANG | Quantity | 90 | 90 | 34 | - | 34 |
|  | Total Obligation Authority | 1,145.837 | 1,247.340 | 577.973 | - | 577.973 |
| Total: | Quantity | 90 | 90 | 34 | - | 34 |

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| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> GA0750 / Abrams Upgrade Program |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 | P-1 Line Item Number / Title: 6500GA0750 / Abrams Upgrade Program |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| Secondary Distribution Total Obligation Authority | 1,145.837 | 1,247.340 | 800.323 | 3 | 800.323 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  | P-1 Line Item Number / Title: 6500GA0750 / Abrams Upgrade Program |  |  |  | Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program |  |  |  |  |
| 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 (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Basic Vehicle ${ }^{(+)}$ |  | 2022 | GDLS / Sterling Heights, MI | SS/FPIF | TACOM-Warren | Mar 2022 | Sep 2023 | 90 | 4,412.622 | N |  |  |
| Basic Vehicle ${ }^{(t)}$ |  | 2023 | GDLS / Sterling Heights, MI | SS/FPIF | TACOM-Warren | Mar 2023 | Sep 2024 | 90 | 5,055.378 | N |  |  |
| Basic Vehicle ${ }^{(\dagger)}$ |  | 2024 | GDLS / Sterling Heights, MI | SS/FPIF | TACOM-Warren | Mar 2024 | Sep 2025 | 34 | 6,570.765 | N |  |  |

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

## Remarks

GDLS-Prime Contractor, Sterling Heights, MI
Manufactured at the Joint Systems Manufacturing Center (JSMC), Lima, OH

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> GA0750 / Abrams Upgrade Program |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 6500GA0750 / Abrams Upgrade Program |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 | $\stackrel{\text { PROC }}{ }$ | $\begin{gathered} \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2021 \end{gathered}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N O v | D E C | J | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A Y | J u | ${ }_{\text {J }}^{\text {u }}$ | A | S E P | O c T | N | D E c | J A N | F | M A R | A P R | M A Y | J N | ${ }_{\text {J }}^{\text {u }}$ | A | S E P |  |
| Basic | Vehicle |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | ears Dein | Piveries: 2204 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 90 | 0 | 90 |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - |  | 12 | 78 |
| 1 | 2023 | ARMY | 90 | 0 | 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 90 |
| 1 | 2024 | ARMY | 34 | 0 | 34 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 34 |
|  |  |  |  |  |  | O c T | N | D E c | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br> P <br> R | M A Y | J U N | J u L | A U G | S $\mathbf{E}$ $\mathbf{P}$ | O c T | N | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br>  <br> P <br> R | M A Y | J N | J | A | S <br>  <br> $\mathbf{E}$ <br> $\mathbf{P}$ |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 6500GA0750 / Abrams Upgrade Program |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|} \hline & \mathrm{F} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{O} & \mathrm{R} \\ \hline \end{array}$ | FY | SERVICE | PROC QTY | $\begin{aligned} & \text { PRIOR } \\ & \text { TO } 1 \\ & \text { OCT } \\ & 2023 \end{aligned}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 10 C T \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | D E C | + ${ }_{\text {J }}^{\text {A }}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A Y | J N | J L | A | 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 | A P R | M A Y | J u N | ${ }_{\text {J }}^{\text {u }}$ | A U G | $\begin{aligned} & \mathbf{s} \\ & \mathbf{E} \\ & \mathbf{P} \end{aligned}$ |  |
| Basic | Vehicle |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | ears D | sliveries: 2204 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 90 | 12 | 78 | 15 | 15 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2023 | ARMY | 90 | 0 | 90 | - | - | - | - | - | - | - | - | - | - | - | 8 | 8 | 8 | 7 | 7 | 8 | 8 | 8 |  | 7 | 7 |  |  | 0 |
| 1 | 2024 | ARMY | 34 | 0 | 34 |  |  |  |  |  | A - |  | - | - | - |  | - | - | - | - | - | - | - | - |  | - | - |  | 3 | 31 |
|  |  |  |  |  |  | $\begin{aligned} & \hline \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline J \\ & A \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A P R | M | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~N} \end{aligned}$ | J u L | A | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & \text { A } \\ & R \end{aligned}$ | A <br> P <br> R | M A Y | J U N | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  | P-1 Line Item Number / Title: <br> 6500GA0750 / Abrams Upgrade Program |  |  |  |  | Item Number / Title [DODIC]: GA0750 / Abrams Upgrade Program |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  |  | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2024 | 1-8-5 For 2024 | MAX For 2024 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \hline \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ |  | Manufacturing PLT | Total After Oct 1 |
| 1 | GDLS - Sterling Heights, MI | 1 | 12 | 35 | 0 | 14 | 18 | 32 | 0 | 5 | 18 | 23 |

"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, Advance Procurement Budget Line Item Justification: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles |  |  |  |  |  | P-1 Line Item Number / Title: 6500GA0750 / Abrams Upgrade Program |  |  |  |  |  |  |
| Program Elements for Code B Items: N/A |  |  |  |  |  | Other Related Program Elements: 0203735A |  |  |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Gross/Weapon System Cost (\$ in Millions) | 2,064.494 | - | - | 102.440 | - | 102.440 | 111.455 | 59.992 | 144.359 | - | - | 2,482.740 |
| Net Procurement (P-1) (\$ in Millions) | 2,064.494 | - | - | 102.440 | - | 102.440 | 111.455 | 59.992 | 144.359 | - | - | 2,482.740 |
| Total Obligation Authority (\$ in Millions) | 2,064.494 | - | - | 102.440 | - | 102.440 | 111.455 | 59.992 | 144.359 | - | - | 2,482.740 |

## Description:

GA0750C / Abrams Upgrade Advance Procurement (CY) is a new start within the Abrams Upgrade Program Budget Line in FY 2024
This funding line provides Advance Procurement (AP) for the initial production of the Abrams M1A2 Systems Enhancement Program (SEP) version 4 (M1A2 SEPv4) tank.
This funding line is directly aligned and supports the Army Armored Brigade Combat Team (ABCT) Modernization priority. Specifically, the Army will modernize the Abrams tank fleet through a series of deliberate incremental Engineering Change Proposals (ECPs). The M1A2 SEPv4 tank is a follow-on to the M1A2 SEPv3 tank and is focused on lethality improvements to integrate higher functioning sensors, modules, and fire control. The 3rd Generation Forward Looking Infrared (3rd GEN FLIR) capability is the key technology improvement of the M1A2 SEPv4 tank providing significantly greater advanced target identification and the subsequent ability to engage threat targets at much greater distances and with greater accuracy. The initial procurement will include 45 each Third Generation Forward Looking Infrared (3rd GEN FLIR) Gunner's Primary Sight (GPS) and Commander's Primary Sight (CPS) and other long lead items.


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| Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2024 Army |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 | P-1 Line Item Number / Title: 6500GA0750 / Abrams Upgrade Program |  |  |  | P-5 Number / Title: <br> GA0750 / Abrams Upgrade Program |  |  |
| Cost Elements | FY 2024 |  |  |  |  |  |  |
|  | QPA <br> (Each) | Production Leadtime (Months) | Unit Cost (\$ K) | Contract Forecast Date | $\underset{\text { (Each) }}{2024 \text { Qty }}$ | For FY | Total Cost Request (\$ M) |
| CFE |  |  |  |  |  |  |  |
| Commander's and Gunner's Primary Sight | 45 |  |  |  |  | 2025 | 102.440 |
| Total: CFE |  |  |  |  |  |  | 102.440 |
| Total Advance Procurement/Obligation Authority |  |  |  |  |  |  | 102.440 |

## Description:

This funding line provides Advance Procurement (AP) for the initial production of the Abrams M1A2 Systems Enhancement Program (SEP) version 4 (M1A2 SEPv4) tank.
This funding line is directly aligned and supports the Army's Armored Brigade Combat Team (ABCT) Modernization priority. Specifically, the Army will modernize the Abrams tank fleet through a series of deliberate incremental Engineering Change Proposals (ECPs). The M1A2 SEPv4 tank is a follow-on to the M1A2 SEPv3 tank and is focused on lethality improvements to integrate higher functioning sensors, modules, and fire control. The 3rd Generation Forward Looking Infrared (3rd GEN FLIR) capability is the key technology improvement of the M1A2 SEPv4 tank providing significantly greater advanced target identification and the subsequent ability to engage threat targets at much greater distances and with greater accuracy. The initial procurement will include 45 each Third Generation Forward Looking Infrared (3rd GEN FLIR) Gunner's Primary Sight (GPS) and Commander's Primary Sight (CPS) and other long lead items.


## P-1 Line Item Number / Title:

## 6652GM1900 / VEHICLE PROTECTION SYSTEMS (VPS)

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

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 449 | - | - | - | - | - | - | - | - | - | 449 |
| Gross/Weapon System Cost (\$ in Millions) | - | 75.286 | - | - | - | - | - | - | - | - | - | 75.286 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 75.286 | - | - | - | - | - | - | - | - | - | 75.286 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 75.286 | - | - | - | - | - | - | - | - | - | 75.286 |
| (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) | - | 167.675 | - | - | - | - | - | - | - | - | - | 167.675 |

## Description:

The Vehicle Protection Suite (VPS) will evaluate, mature, and integrate onto multiple combat platforms, combinations of active, reactive, and passive survivability capabilities. These capabilities will leverage both Horizontal Technology Integration (HTI) principles and the Army's Modular Active Protection Controller and Framework to develop tailored vehicle survivability sets that will mitigate existing protection gaps, allow for future technology insertion to meet evolving threats, and minimize the impact to the current capabilities hosted on Army ground system platforms.
(GM1911) - VPS Base Kit with Laser Warning Receiver
The VPS Base Kit with Laser Warning Receiver (LWR) Program was designated as a Program of Record in August 2018. The Laser Warning Receiver (LWR) will detect enemy military laser aided threats and provide rapid warning of threat type and signal direction to the Modular Active Protection Controller (MAC) via the Modular Active Protection Framework (MAF) Laser Warning Receiver (LWR). It will be able to detect the broad array of laser aided threats that ground combat vehicles will face in a near peer environment Laser Range Finders (LRF), Laser Target Designators (LTD), and Laser Beam Rider Air to Ground Munitions (ATGMs). The system will alert the crew to which of the three categories of threats are targeting the system and allow for the crew to respond based on that threat. Threat timelines are critical to the response of the vehicle crew and the ability to counter the threat. The Laser Warning Receiver will provide early warning to laser aided threat elements. The VPS Base Kit with Laser Warning Receiver is currently planned to be implemented as an Engineering Change Proposal to multiple ground combat vehicle platforms.
(GM1912) - Signature Management
The Signature Management (SIGMAN) paint program was designated as a program of record in August 2018. Signature Management reduces the infrared signature of ground combat vehicles. This capability will reduce the probability of enemy detection from classified ranges and wave bands. Signature Management is designed to be integrated with no changes to the combat vehicles' baseline paint. This program is intended to be used on all combat vehicles, with future expansion to other U.S. Army vehicle systems. Signature Management is the Vehicle Protection System baseline layer for the signature management architecture. Future Vehicle Protection technologies may be layered in coordination with this program.

Passive Protection
The Passive Protection portfolio includes protection against top attack/aerial threats and medium caliber/kinetic energy threats. The Passive Protection program includes multiple implementation strategies depending on the specific capability within the passive protection portfolio.

Expedited Active Protection System (ExAPS)

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20:

## P-1 Line Item Number / Title:

6652GM1900 / VEHICLE PROTECTION SYSTEMS (VPS)

## Modification of Tracked Combat Vehicles

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

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



 platform around the world in support of current and future engagement requirements.


 the enduring fleet onto multiple ground combat vehicle platforms.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 <br> Base | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 449 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 75.286 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 449 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 75.286 | - | - | - | - | - | - | - | - |

[^3] defense missions, domestic emergency responses, and providing military support to civil authorities.

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

## P-1 Line Item Number / Title:

0418GN0003 / PERSONAL DEFENSE WEAPON (ROLL)

## 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat

 Vehicles / BSA 10: Weapons \& Other Combat VehiclesID 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 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | 100 | - | 100 | 2,191 | 2,148 | 1,602 | 564 | - | 6,605 |
| Gross/Weapon System Cost (\$ in Millions) | - | 7.000 | - | 0.510 | - | 0.510 | 4.983 | 4.981 | 3.919 | 1.765 | - | 23.158 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 7.000 | - | 0.510 | - | 0.510 | 4.983 | 4.981 | 3.919 | 1.765 | - | 23.158 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 7.000 | - | 0.510 | - | 0.510 | 4.983 | 4.981 | 3.919 | 1.765 | - | 23.158 |
| (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) | - | - | - | 5.100 | - | 5.100 | 2.274 | 2.319 | 2.446 | 3.129 | - | 3.506 |

## Description:

BLI 0418GN0003 / PERSONAL DEFENSE WEAPON (ROLL) is a new start in FY 2024.
SSN G00013 / LAUNCHED ELECTRODE STUN DEVICE is a new start within the PERSONAL DEFENSE WEAPON (ROLL) program in FY 2024
GN0003 / PERSONAL DEFENSE WEAPON (ROLL) is a New Start program in FY 2024.
G00013 / LAUNCHED ELECTRODE STUN DEVICE is a new start within the PERSONAL DEFENSE WEAPON (ROLL) Budget Line in FY 2024.

 at a distance. LESD allows for increased force protection and provides Military Police (MPs) with a viable escalation of force capability. This item is Code A, approved for service use.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | 100 | - | 100 | 2,191 | 2,148 | 1,602 | 564 |
|  | Total Obligation Authority | 7.000 | - | 0.510 | - | 0.510 | 4.983 | 4.981 | 3.919 | 1.765 |
| Total: Secondary Distribution | Quantity | - | - | 100 | - | 100 | 2,191 | 2,148 | 1,602 | 564 |
|  | Total Obligation Authority | 7.000 | - | 0.510 | - | 0.510 | 4.983 | 4.981 | 3.919 | 1.765 |

[^4]

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons \& Other Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: 0604601A

## P-1 Line Item Number / Title:

2472G13000 / M240 Medium Machine Gun (7.62mm)

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 1,685 | 480 | 476 | 19 | - | 19 | 18 | 12 | 12 | - | - | 2,702 |
| Gross/Weapon System Cost (\$ in Millions) | 830.939 | 11.017 | 10.500 | 0.425 | - | 0.425 | 0.426 | 0.313 | 0.314 | - | - | 853.934 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 830.939 | 11.017 | 10.500 | 0.425 | - | 0.425 | 0.426 | 0.313 | 0.314 | - | - | 853.934 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 830.939 | 11.017 | 10.500 | 0.425 | - | 0.425 | 0.426 | 0.313 | 0.314 | - | - | 853.934 |
| (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) | 493.139 | 22.952 | 22.059 | 22.368 | - | 22.368 | 23.667 | 26.083 | 26.167 | - | - | 316.038 |

## Description:








 and innovative manufacturing techniques.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 432 | 476 | 16 | - | 16 | 15 | 10 | 10 | - |
|  | Total Obligation Authority | 9.967 | 10.500 | 0.333 | - | 0.333 | 0.334 | 0.248 | 0.249 | - |
| ANG | Quantity | 39 | - | 3 | - | 3 | 3 | 2 | 2 | - |
|  | Total Obligation Authority | 0.853 | - | 0.092 | - | 0.092 | 0.092 | 0.065 | 0.065 | - |
| AR | Quantity | 9 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.197 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 480 | 476 | 19 | - | 19 | 18 | 12 | 12 | - |
|  | Total Obligation Authority | 11.017 | 10.500 | 0.425 | - | 0.425 | 0.426 | 0.313 | 0.314 | - |

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

Exhibit P-40, Budget Line Item Justification: PB 2024 Army
Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons \& Other Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM

## Line Item MDAP/MAIS Code: 1DO

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 440 | 330 | 391 | - | - | - | - | - | - | - | - | 1,161 |
| Gross/Weapon System Cost (\$ in Millions) | 88.217 | 31.623 | 26.627 | - | - | - | - | - | - | - | - | 146.467 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 88.217 | 31.623 | 26.627 | - | - | - | - | - | - | - | - | 146.467 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 88.217 | 31.623 | 26.627 | - | - | - | - | - | - | - | - | 146.467 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 200.493 | 95.827 | 68.100 | - | - | - | - | - | - | - | - | 126.156 |

## Description:




 capable of marking threat targets with smoke for supporting weapons, obscuring threat weapons and illuminating threat targets.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 307 | 279 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 29.413 | 19.000 | - | - | - | - | - | - | - |
| ANG | Quantity | 23 | 112 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.210 | 7.627 | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 330 | 391 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 31.623 | 26.627 | - | - | - | - | - | - | - |


| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons \& Other Combat Vehicles |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM |  |  |  |  |
| ID Cod | ( $\mathrm{A}=$ Service Ready, $\mathrm{B}=$ Not Service Ready): A | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0604601A |  |  |  |
| Line Item MDAP/MAIS Code: 1D0 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Co } \end{array}$ | $\begin{aligned} & \hline \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G13101/ MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM | P-5a | A |  | 440 / 88.217 | $330 / 31.623$ | 391 / 26.627 | 1. | - 1 - | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  |  | $440 / 88.217$ | $330 / 31.623$ | $391 / 26.627$ | -1. | - 1. | 1. |

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

## Justification:

There is no FY 2024 budget request for this funding line.
The M3/M3E1 is a man-portable shoulder-fired, 84 mm reusable recoilless rifle/launcher weapon system capable of engaging, neutralizing and destroying lightly armored vehicles, soft skinned vehicles, personnel in the open or defilade, and field fortifications in both open urban and rural operational environments.

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

Army Acquisition Objective (AAO): 2,460

| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTIPERSONNEL WEAPON SYSTEM |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> G13101 / MULTI-ROLE ANTI-ARMOR <br> ANTI-PERSONNEL WEAPON SYSTEM |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2022 |  | FY 2023 |  | FY 2024 Base |  |  | FY 2024 OCO |  | FY 2024 Total |  |
| Procurement Quantity (Units in Each) 440 |  |  |  |  |  |  |  |  | 330 |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 88.217 |  | 31.623 |  |  |  |  | - |  | - |  | - |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  |  |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 88.217 |  | 31.623 |  |  |  |  | - |  | - |  |  |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 88.217 |  | 31.623 |  |  |  |  | - |  | - |  | - |
| (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) |  |  |  |  |  | 200.493 |  | 95.827 |  | 68.100 |  |  |  |  |  |  |  | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ 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 (\$M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Hardware Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M3A1 ${ }^{(t)}$ | 30.743 | 1,089 | 33.479 | 28.567 | 330 | 3 9.427 | 29.832 | 315 | 9.397 | - | - | - | - | - | - - | - | - | - |
| Fire Control ${ }^{(t)}$ | 29.774 | 1,089 | 32.424 | 28.632 | 330 | 0 9.449 | 29.206 | 315 | 9.200 | - | - | - | - | - | - - | - | - | - |
| Sub Caliber Adapter ${ }^{(t)}$ | 5.406 | 584 | 3.157 | 6.674 | 949 | 9.6 .334 | 6.809 | 460 | 3.132 | - | - | - | - | - | - | - | - | - |
| Comtac Headset w/ Push talk Assembly ${ }^{(\dagger)}$ | 1.152 | 600 | 0.691 | 1.164 | 844 | 4 - 0.982 | 1.186 | 630 | 0.747 | - | - | - | - | - | - - | - | - |  |
| Subtotal: Recurring Cost | - | - | 69.751 | - | - | 26.192 | - | - | 22.476 | - | - | - | - | - | - | - | - | - |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| м3 осо | 33.705 | 88 | 2.966 | - | - | - | - | - | - | - | - | - | - | - | - - | - | - | - |
| M3 OCO Fire Control | 32.307 | 88 | 2.843 | - | $\cdot$ | - - | $\cdot$ | - | - | - | - | - | - | - | - | - | - | - |
| M3 OCO Sub Caliber Adapter | 6.500 | 60 | 0.390 | - | - | - | - | - | - | - | - | - | - | - | - . | - | - |  |
| Subtotal: Non Recurring Cost | - | - | 6.199 | - | - | - | - | - | - | - | - | - | - | - | - - | - | - |  |
| Subtotal: Hardware Cost | - | - | 75.950 | - | - | 26.192 | - | - | 22.476 | - | - | - | - | - | - | - | - | - |
| Logistics Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M3A1 Transport | - | - | 0.310 | - | - | 0.375 | - | - | 0.248 | - | - | - | - | - | - | - | - | - |
| Integrated Logistical Support-Crane | - | - | - | - | - | 0.800 | - | - | 0.746 | - | - | - | - | - | - - | - | - | - |

LI 3736G13101 - MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL

| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTIPERSONNEL WEAPON SYSTEM |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> G13101 / MULTI-ROLE ANTI-ARMOR <br> ANTI-PERSONNEL WEAPON SYSTEM |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ 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) | 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) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| FCS13 Contractor Fielding Support Vendor | - | . | 0.748 | - | - | 1.489 | - | . | 0.634 | - | . | - | - | . | . | - |  |  |
| Subtotal: Recurring Cost | - | - | 1.058 | - | - | 2.664 | - | - | 1.628 | - | - | - | - | - | - | - | - |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M3 OCO Transport | - | - | 0.114 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 0.114 | - | - | - | - | - | - | - | - | - | - | - | - | - |  |  |
| Subtota: Logistics Cost | - | - | 1.172 | - | - | 2.664 | - | - | 1.628 | - | - | - | - | - | - | - | - | - |
| Support - Contractor Logistics Support (CLS) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oversight | - | - | 0.678 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - <br> Contractor Logistics Support <br> (CLS) Cost | - | - | 0.678 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - Initial Spares and Repair Parts Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares and Repair Parts | - | - | 3.020 | - | - | 1.193 | - | - | 0.764 | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Initial Spares and Repair Parts Cost | - | - | 3.020 | - | - | 1.193 | - | - | 0.764 | - |  | - | - | - | - | - |  |  |
| Support - New Equipment Training (NET) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment | - | - | 1.361 | - | - | 0.700 | - | - | 0.859 | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - New Equipment Training (NET) Cost | . | - | 1.361 | . | . | 0.700 | . | . | 0.859 | . |  | - | . | - | - | . | - | - |
| Support - Program Management Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Government Management | - | - | 6.036 | - | - | 0.874 | - | - | 0.900 | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Program Management Cost | - | - | 6.036 |  | - | 0.874 | - | - | 0.900 | - | - | - | - | - |  | - |  |  |
| Gross/Weapon System Cost | 200.493 | 440 | 88.217 | 95.827 | 330 | 31.623 | 68.100 | 391 | 26.627 | - |  | - | - | - | - | - |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  |  |  |  |  |  | $\text { FY } 2022$ |  | $\text { FY } 2023$ |  |  | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Base } \end{gathered}$ |  | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \\ \hline \end{gathered}$ |  |  | FY 2024 Total |  |
| Army |  | Quantity |  |  |  |  | 307 |  |  |  | 279 |  | - |  |  | - |  | - |
|  |  | Total Obligation Authority |  |  |  |  |  | 29.4 |  |  | 19.000 |  | - |  |  | - |  | - |
| ANG |  |  | Quantity |  |  |  |  |  |  |  | 112 |  | - |  |  | - |  | - |

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Army
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P-1 Line \#18

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| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  | Date: March 2023 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 | P-1 Line Item Number / Title: 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTIPERSONNEL WEAPON SYSTEM |  |  | Item Number / Title [DODIC]: <br> G13101 / MULTI-ROLE ANTI-ARMOR <br> ANTI-PERSONNEL WEAPON SYSTEM |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code |  |  |  |
| Secondary Distribution | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| Total Obligation Authority | 2.210 | 7.627 | - | - - | - |
| Total: $\quad$ Quantity | 330 | 391 | - | - | - |
|  | 31.623 | 26.627 | $\cdot$ | - - | $\cdot$ |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 2033A / } 02 \text { / } 10$ |  |  |  | P-1 Line Item Number / Title: <br> 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTIPERSONNEL WEAPON SYSTEM |  |  |  | Item Number / Title [DODIC]: <br> G13101 / MULTI-ROLE ANTI-ARMOR <br> ANTI-PERSONNEL WEAPON SYSTEM |  |  |  |  |
| Cost Elements | O <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 | RFP Issue Date |
| M3A1 |  | 2022 | Saab Dynamics AB / Sweden | SS / IDIQ | ACC-NJ, Picatinny Arsenal, NJ | Nov 2021 | May 2022 | 330 | 28.567 | Y |  |  |
| M3A1 |  | 2023 | Saab Dynamics AB / Sweden | SS/IDIQ | ACC-NJ, Picatinny Arsenal, NJ | Nov 2022 | May 2023 | 315 | 29.832 | Y |  |  |
| Fire Control |  | 2022 | Aimpoint / Sweden | MIPR | DLA Troop Support | Dec 2021 | Apr 2022 | 330 | 28.632 | Y |  |  |
| Fire Control |  | 2023 | Aimpoint / Sweden | MIPR | DLA Troop Support | Dec 2022 | Apr 2023 | 315 | 29.206 | Y |  |  |
| Sub Caliber Adapter |  | 2022 | Saab Dynamics AB / Sweden | SS /IDIQ | Naval Surface Warfare Center, Crane, IN | Dec 2021 | Apr 2022 | 949 | 6.674 | Y |  |  |
| Sub Caliber Adapter |  | 2023 | Saab Dynamics AB / Sweden | SS /IDIQ | Naval Surface Warfare Center, Crane, IN | Dec 2022 | Apr 2023 | 460 | 6.809 | Y |  |  |
| Comtac Headset w/ Push talk Assembly |  | 2022 | Atlantic Signal, LLC / Topeka, Kansas | MIPR | DLA Troop Support | Dec 2021 | Apr 2022 | 844 | 1.164 | Y |  |  |
| Comtac Headset w/ Push talk Assembly |  | 2023 | Atlantic Signal, LLC / Topeka, Kansas | MIPR | DLA Troop Support | Dec 2022 | Apr 2023 | 630 | 1.186 | Y |  |  |

## Remarks

P -21 is not required, as all hardware items procured are Commercial Off the Shelf (COTS) or Commercial Off the Shelf/Non-Developmental Items (COTS/NDI).

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

## P-1 Line Item Number / Title:

5000GB2000 / Machine Gun, Cal . 50 M2 Roll

## 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat

 Vehicles / BSA 10: Weapons \& Other Combat VehiclesID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | 424 | - | 424 | 30 | 29 | 27 | - | - | 510 |
| Gross/Weapon System Cost (\$ in Millions) | 417.874 | - | - | 3.420 | - | 3.420 | 0.452 | 0.453 | 0.453 | - | - | 422.652 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 417.874 | - | - | 3.420 | - | 3.420 | 0.452 | 0.453 | 0.453 | - | - | 422.652 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 417.874 | - | - | 3.420 | - | 3.420 | 0.452 | 0.453 | 0.453 | - | - | 422.652 |
| (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) | - | - | - | 8.066 | - | 8.066 | 15.067 | 15.621 | 16.778 | - | - | 828.729 |

## Description:

BLI 5000GB2000 / Machine Gun, Cal . 50 M2 Roll is a new start in FY 2024
GB2000 / Machine Gun, Cal . 50 M2 Roll is a new start in FY 2024

 It is capable of single-shot and automatic fire. The M2A1 provides enhancements to allow the Soldier to quickly change barrels without the need to reset the headspace and timing while also reducing the visible muzzle flash.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | 270 | - | 270 | 13 | 10 | 11 | - |
|  | Total Obligation Authority | - | - | 2.061 | - | 2.061 | 0.187 | 0.179 | 0.188 | - |
| ANG | Quantity | - | - | 98 | - | 98 | 11 | 13 | 10 | - |
|  | Total Obligation Authority | - | - | 0.859 | - | 0.859 | 0.175 | 0.184 | 0.175 | - |
| AR | Quantity | - | - | 56 | - | 56 | 6 | 6 | 6 | - |
|  | Total Obligation Authority | - | - | 0.500 | - | 0.500 | 0.090 | 0.090 | 0.090 | - |
| Total: <br> Secondary Distribution | Quantity | - | - | 424 | - | 424 | 30 | 29 | 27 | - |
|  | Total Obligation Authority | - | - | 3.420 | - | 3.420 | 0.452 | 0.453 | 0.453 | - |

[^5]

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons \& Other Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
6580G02200 / Mortar Systems

Other Related Program Elements: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 371 | 204 | 6 | 6 | - | 6 | 6 | 10 | 9 | 9 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 488.711 | 33.240 | 8.516 | 8.013 | - | 8.013 | 8.549 | 14.563 | 14.218 | 14.229 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |
| Net Procurement (P-1) (\$ in Millions) | 488.711 | 33.240 | 8.516 | 8.013 | - | 8.013 | 8.549 | 14.563 | 14.218 | 14.229 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 488.711 | 33.240 | 8.516 | 8.013 | - | 8.013 | 8.549 | 14.563 | 14.218 | 14.229 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 1,317.280 | 162.941 | 1,419.333 | 1,335.500 | - | 1,335.500 | 1,424.833 | 1,456.300 | 1,579.778 | 1,581.000 | Continuing | Continuing |

## Description:








| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 204 | 6 | 6 | - | 6 | 6 | 10 | 9 | 9 |
|  | Total Obligation Authority | 33.240 | 8.516 | 8.013 | - | 8.013 | 8.549 | 14.563 | 14.218 | 14.229 |
| Total: <br> Secondary Distribution | Quantity | 204 | 6 | 6 | - | 6 | 6 | 10 | 9 | 9 |
|  | Total Obligation Authority | 33.240 | 8.516 | 8.013 | - | 8.013 | 8.549 | 14.563 | 14.218 | 14.229 |

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

## Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat

 Vehicles / BSA 10: Weapons \& Other Combat VehiclesID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
6580G02200 / Mortar Systems

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

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G02202 / Mtr Wpn Sys | P-5a | A |  | 371/488.711 | 204/33.240 | 6/8.516 | 6/8.013 | 1 | 6/8.013 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 371 / 488.711 | $204 / 33.240$ | 6/8.516 | 6/8.013 | - 1. | 6/8.013 |

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

## Justification:

FY 2024 funding total includes $\$ 4.427$ million for Base and $\$ 3.586$ million for Enduring Costs in the Base Budget.



 per Brigade to three Battalions per Brigade and increase in Army Acquisition Objective (AAO) for new stand up units.

FY 2024 Base procurement dollars in the amount of $\$ 3.586$ million procures three (3) each M121 120mm mortar weapon systems in support of the European Deterrence Initiative (EDI).
 missions, domestic emergency responses, and providing military support to civil authorities.

Note: FY 2024 quantity totals six (6) each full systems.

Exhibit P-5, Cost Analysis: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity

 2033A / 02 / 10ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title: 6580 G 02200 / Mortar Systems

Date: March 2023
Item Number / Title [DODIC]:
G02202 / Mtr Wpn Sys


Exhibit P-5, Cost Analysis: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 02 / 10P-1 Line Item Number / Title:
6580G02200 / Mortar Systems

Date: March 2023

## Item Number / Title [DODIC]:

G02202 / Mtr Wpn Sys

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

| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| Subtotal: Recurring Cost | - | - | 2.423 | - | - | 0.555 | - | - | 0.560 | - | - | 0.565 | - | - | - | - | - | 0.565 |
| Subtotal: Logistics Cost | - | - | 2.423 | - | - | 0.555 | - | - | 0.560 | - | - | 0.565 | - | - | - | - | - | 0.565 |
| Support - Acceptance Testing Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Acceptance Test | - | - | 3.274 | - | - | 0.924 | - | - | 0.400 | - | - | 0.400 | - | - | - | - | - | 0.400 |
| First Article Test | - | - | 3.342 | - | - | 1.077 | - | - | 0.154 | - | - | 0.165 | - | - | - | - | - | 0.165 |
| Subtotal: Support Acceptance Testing Cost | - | - | 6.616 | - | - | 2.001 | - | - | 0.554 | - | - | 0.565 | - | - | - | - | - | 0.565 |
| Support - Fielding Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fielding | - | - | 3.723 | - | - | 1.133 | - | - | 1.136 | - | - | 1.150 | - | - | - | - | - | 1.150 |
| Subtotal: Support - Fielding Cost | - | - | 3.723 | - | - | 1.133 | - | - | 1.136 | - | - | 1.150 | - | - | - | . | . | 1.150 |
| Support - Production Engineering Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production Engineering | - | - | 387.674 | - | - | 3.906 | - | - | 2.635 | - | - | 3.127 | - | - | - | - | - | 3.127 |
| Subtotal: Support Production Engineering Cost | - | . | 387.674 | - | - | 3.906 | - | - | 2.635 | - | - | 3.127 | - | - | - | - | . | 3.127 |
| Support - Staging and Transportation Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Staging and Transportation | - | - | 4.680 | - | - | 1.159 | - | - | 0.305 | - | - | 0.350 | - | - | - | - | - | 0.350 |
| Subtotal: Support - Staging and Transportation Cost | - | - | 4.680 | - | - | 1.159 | - | - | 0.305 | - | - | 0.350 | - | - | - | - | - | 0.350 |
| Support - Training Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Services | - | - | 2.525 | - | - | 0.725 | - | - | 0.730 | - | - | 0.750 | - | - | - | - | - | 0.750 |
| Subtotal: Support - Training Cost | - | - | 2.525 | - | - | 0.725 | - | - | 0.730 | - | - | 0.750 | - | - | - | - | - | 0.750 |
| Gross/Weapon System Cost | 1,317.280 | 371 | 488.711 | 162.941 | 204 | 33.240 | 1,419.333 | 6 | 8.516 | 1,335.500 | 6 | 8.013 | - | - | - | 1,335.500 | 6 | 8.013 |

## Remarks:

Note: FY 2024 quantity totals six (6) each full systems.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 204 | 6 | 6 | - | 6 |
|  | Total Obligation Authority | 33.240 | 8.516 | 8.013 | - | 8.013 |
| Total: <br> Secondary Distribution | Quantity | 204 | 6 | 6 | - | 6 |
|  | Total Obligation Authority | 33.240 | 8.516 | 8.013 | - | 8.013 |


| Exhibit P-5, Cost Analysis: PB 2024 Army | Date: March 2023 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A / 02 / 10 | P-1 Line Item Number / Title: <br> 6580 G 02200 / Mortar Systems | Item Number / Title [DODIC]: <br> G02202 / Mtr Wpn Sys |
| ID Code (A=Serice Ready, B=Not Serice Ready) : A | MDAP/MAIS Code: |  |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2024 Army Date: March 2023 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  | P-1 Line Item Number / Title: 6580G02200 / Mortar Systems |  |  |  | Item Number / Title [DODIC]: G02202 / Mtr Wpn Sys |  |  |  |  |
| 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 | Qty (Each) | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| 120mm (M121) Mortar System |  | 2022 | EFW Inc / Fort Worth, TX | C/FFP | Picatinny Arsenal, NJ | Jun 2022 | Oct 2024 | 36 | 150.000 | Y |  |  |
| 120 mm (M121) Mortar System |  | 2023 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Apr 2023 | Aug 2025 | 6 | 150.000 | Y |  |  |
| 120 mm (M121) Mortar System |  | 2024 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2024 | Jul 2026 | 6 | 150.000 | Y |  |  |
| 120 mm (M120A1) Mortar System |  | 2022 | EFW Inc / Fort Worth, TX | C/FFP | Picatinny Arsenal, NJ | Jun 2022 | Oct 2024 | 42 | 260.000 | Y |  |  |
| 120 mm Cannon Tubes |  | 2022 | EFW Inc / Fort Worth, TX | C/FFP | Picatinny Arsenal, NJ | Jun 2022 | Oct 2024 | 124 | 60.011 | Y |  |  |
| 120 mm Cannon Tubes |  | 2023 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Apr 2023 | Aug 2023 | 28 | 60.600 | Y |  |  |
| 120 mm Cannon Tubes |  | 2024 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2024 | Jul 2026 | 10 | 60.600 | Y |  |  |

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons \& Other Combat Vehicles

Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
6659G08100 / LOCATION \& AZIMUTH DETERMINATION SYSTEM (LADS)

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ <br> Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | 126 | - | - | - | - | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 48.301 | 3.174 | - | 3.174 | 2.538 | - | - | - | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 48.301 | 3.174 | - | 3.174 | 2.538 | - | - | - | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 48.301 | 3.174 | - | 3.174 | 2.538 | - | - | - | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | 383.341 | - | - | - | - | - | - | - | Continuing | Continuing |

## Description:






| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | 126 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 48.301 | 3.174 | - | 3.174 | 2.538 | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | 126 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 48.301 | 3.174 | - | 3.174 | 2.538 | - | - | - |

## Justification:



 effective than the predecessor system while operating in GPS denied and degraded environments.

Net funding decrease of $\$ 45.127$ million from FY 2023 to $F Y 2024$ is the result of completing hardware procurement.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

LI 6659G08100 - LOCATION \& AZIMUTH DETERMINATION

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons \& Other Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
8181 G01501 / XM320 Grenade Launcher Module (GLM)

Other Related Program Elements: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 272.265 | 13.934 | 11.703 | 14.143 | - | 14.143 | 17.711 | 17.873 | 17.894 | 17.869 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 272.265 | 13.934 | 11.703 | 14.143 | - | 14.143 | 17.711 | 17.873 | 17.894 | 17.869 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 272.265 | 13.934 | 11.703 | 14.143 | - | 14.143 | 17.711 | 17.873 | 17.894 | 17.869 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 118.789 | - | - | - | - | - | - | - | - | - | Continuing | Continuing |

## Description:








 and M433E1 capability to be delivered by the new 40 mm Family of Ammunition (FOA).

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - |  | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 9.462 | 6.308 | 14.143 | - | 14.143 | 17.711 | 17.873 | 17.894 | 17.869 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.318 | 5.215 | - | - | - | - | - | - | - |
| AR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.154 | 0.180 | - | - | - | - | - | - | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 13.934 | 11.703 | 14.143 | - | 14.143 | 17.711 | 17.873 | 17.894 | 17.869 |


| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons \& Other Combat Vehicles |  |  |  |  |  | P-1 Line Item Number / Title: <br> 8181G01501 / XM320 Grenade Launcher Module (GLM) |  |  |  |  |
| 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 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G01501 / XM320 Grenade Launcher Module (GLM) | P-5a | A |  | - 1272.265 | - /13.934 | - /11.703 | - / 14.143 | 1 | - /14.143 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1272.265 | - /13.934 | - / 11.703 | - / 14.143 | - 1 - | - 114.143 |

*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:




 Ammunition.
 domestic emergency responses, and providing military support to civil authorities.
 Objective (AAO) of 56,319. The M320 Grenade Launcher (GLM) weapon AAO has been met.


| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G01501 / XM320 Grenade Launcher Module (GLM) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 8181G01501 / XM320 Grenade Launcher Module (GLM) |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ 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) | 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) |
| XM100 40mm Fuze Setter | - | . | . | 0.841 | 1,916 | 1.611 | 0.851 | 1,222 | 1.040 | 0.950 | 1,224 | 1.163 | - | . | . | 0.950 | 1,224 | 1.163 |
| Subtotal: Recurring Cost | - | - | - | - | - | 1.611 | - | - | 1.040 | - | - | 1.163 | - | - | - | - | - | 1.163 |
| Subtotal: Hardware Cost | - | - | . | - | - | 1.611 | - | - | 1.040 | - | - | 1.163 | . | - | - | - | . | 1.163 |
| Package Fielding Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Package Fielding (TPF) | - | - | 4.640 | - | - | 0.864 | - | - | 0.175 | - | - | 0.182 | - | - | - | - | - | 0.182 |
| Subtotal: Recurring Cost | - | - | 4.640 | - | - | 0.864 | - | - | 0.175 | - | - | 0.182 | - | - | - | - | - | 0.182 |
| Subtotal: Package Fielding Cost | - | - | 4.640 | - | - | 0.864 | - | - | 0.175 | - | - | 0.182 | - | - | - | - | - | 0.182 |
| Logistics Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Logistics Support (ILS) | - | - | 2.271 | - | - | 0.285 | - | - | 0.443 | - | - | 0.460 | - | - | - | - | - | 0.460 |
| New Equipment Training (NET) | - | - | 0.366 | - | - | 0.395 | - | - | 0.139 | - | - | 0.145 | - | - | - | - | - | 0.145 |
| Subtotal: Recurring Cost | - | - | 2.637 | - | - | 0.680 | - | - | 0.582 | - | - | 0.605 | - | - | - | - | - | 0.605 |
| Subtotal: Logistics Cost | - | - | 2.637 | - | - | 0.680 | - | - | 0.582 | - | - | 0.605 | - | - | - | - | - | 0.605 |
| Support - Acceptance Testing Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| First Article Test | - | - | 7.403 | - | - | 0.100 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support Acceptance Testing Cost | - | - | 7.403 | - | . | 0.100 | . | . | . | . | . | . | . | . | . | . | - | . |
| Support - Program Management Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Government Management | - | - | 8.725 | - | - | 0.768 | - | - | 0.607 | - | - | 0.711 | - | - | - | - | - | 0.711 |
| Subtotal: Support - Program Management Cost | - | - | 8.725 | - | - | 0.768 | - | - | 0.607 | - | - | 0.711 | - | - | - | - | - | 0.711 |
| Support - System Engineering Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| System Engineering | - | - | 17.942 | - | - | 1.749 | - | - | 1.497 | - | - | 1.447 | - | - | - | - | - | 1.447 |
| Subtotal: Support - System Engineering Cost | . | - | 17.942 | . | - | 1.749 | - | - | 1.497 | - | - | 1.447 | - | - | - | - | $\cdot$ | 1.447 |
| Support - Training Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment | - | - | 5.903 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Training Cost | - | - | 5.903 | - | - | - | - | . | . | . | . | . | . | - | - | . | - | - |

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| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: 8181G01501 / XM320 Grenade Launcher Module (GLM) |  |  |  |  |  |  |  | Item Number / Title [DODIC]: G01501 / XM320 Grenade Launcher Module (GLM) |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> 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 <br> 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) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) |
| Gross/Weapon System Cost | 118.789 |  | 272.265 | . |  | 13.934 |  |  | 11.703 |  | . | 14.143 |  | . |  |  |  | 14.143 |

## Remarks:

Ongoing contract negotiations may impact FY 2024 unit cost on the Grenadier Sighting System (GSS) due to increase material costs, inflation and supply change issues.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 9.462 | 6.308 | 14.143 | - | 14.143 |
| ANG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 4.318 | 5.215 | - | - | - |
| AR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.154 | 0.180 | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | $\cdot$ |
|  | Total Obligation Authority | 13.934 | 11.703 | 14.143 | - | 14.143 |

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

UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  | P-1 Line Item Number / Title: <br> 8181G01501 / XM320 Grenade Launcher Module (GLM) |  |  |  | Item Number / Title [DODIC]: <br> G01501 / XM320 Grenade Launcher Module (GLM) |  |  |  |  |
| 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 $(\$ K)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Grenadier Sighting System (GSS) |  | 2022 | Wilcox / Portsmouth, NH | C/FFP | ACC-Picatinny, Picatinny, NJ | Dec 2021 | Dec 2021 | 1,523 | 1.900 | Y |  |  |
| Grenadier Sighting System (GSS) |  | 2023 | Wilcox / Portsmouth, NH | C/FFP | ACC-Picatinny, Picatinny, NJ | Dec 2022 | Dec 2022 | 3,881 | 1.900 | Y |  |  |
| Grenadier Sighting System (GSS) |  | 2024 | Wilcox / Portsmouth, NH | C/FFP | ACC-Picatinny, Picatinny, NJ | Jun 2024 | Sep 2024 | 3,947 | 2.422 | Y |  |  |

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons \& Other Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
8190G01506 / Precision Sniper Rifle

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ <br> Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 817 | 443 | 231 | 165 | - | 165 | 223 | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 14.642 | 9.505 | 6.436 | 5.248 | - | 5.248 | 6.049 | 6.109 | 6.115 | 6.121 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 14.642 | 9.505 | 6.436 | 5.248 | - | 5.248 | 6.049 | 6.109 | 6.115 | 6.121 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 14.642 | 9.505 | 6.436 | 5.248 | - | 5.248 | 6.049 | 6.109 | 6.115 | 6.121 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 17.922 | 21.456 | 27.861 | 31.806 | - | 31.806 | 27.126 | - | - | - | Continuing | Continuing |

## Description:

The Precision Sniper Rifle (PSR) program supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Joint Lethality in contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain as outlined in the National Defense Strategy (NDS). On 31 March 2021, the U.S. Army awarded contract W15QKN-21-D-0028 to Barrett Firearms MFG, Inc. The contract is a 5 -year Firm Fixed Price (FFP) Indefinite Delivery/Indefinite Quantity (IDIQ) contract for production and delivery of the MK22 Precision Sniper Rifle (Multi-role Adaptive Design (MRAD) commercial variant) to support an Army Acquisition Objective (AAO) of 2,800 systems. This program will become the primary sniper weapon system in all Army sniper teams. It is a Non-Developmental Item (NDI) that is a multi-caliber, bolt-action sniper rifle, which is effective against personnel and materiel targets at extreme ranges. The Precision Sniper Rifle (PSR) provides increased probability of hit over the current M2010 Enhanced Sniper Rifle (ESR) configuration at distances beyond twelve-hundred (1200) meters, which enhances the sniper role in supporting combat operations and improves sniper survivability. The Precision Sniper Rifle (PSR) provides extended effective range by three-hundred (300) meters over M2010 Enhanced Sniper Rifle (ESR) out to fifteen-hundred (1500) meters, which increases stand-off distances ensuring overmatch against enemy counter sniper engagements and increases sniper capabilities. The Precision Sniper Rifle (PSR) also replaces the anti-materiel M107 semi-automatic . 50 caliber sniper rifle, offering improved accuracy in a lighter weight package. The Precision Sniper Rifle (PSR) includes a sound suppressor and direct view optic with fire control capabilities. This allows snipers, when supplemented with a clip-on image intensifier or thermal sensor system, to effectively engage enemy snipers, as well as crew served and indirect fire weapons virtually undetected in any light condition.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 383 | 93 | 99 | - | 99 | 95 | - | - | - |
|  | Total Obligation Authority | 8.211 | 2.591 | 3.124 | - | 3.124 | 2.567 | 2.586 | 4.072 | 4.078 |
| ANG | Quantity | 60 | 138 | 64 | - | 64 | 128 | - | - | - |
|  | Total Obligation Authority | 1.294 | 3.845 | 2.061 | - | 2.061 | 3.482 | 3.523 | 2.043 | 2.043 |
| AR | Quantity | - | - | 2 | - | 2 | - | - | - | - |
|  | Total Obligation Authority | - | - | 0.063 | - | 0.063 | - | - | - | - |
| Total: | Quantity | 443 | 231 | 165 | - | 165 | 223 | - | - | - |

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| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat <br> Vehicles / BSA 10: Weapons \& Other Combat Vehicles |  |  |  |  | P-1 Line Item Number / Title: 8190G01506 / Precision Sniper Rifle |  |  |  |  |  |
| ID Code (A=Service Ready | ot Service Ready): A | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | FY 2024 Total | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Secondary Distribution | Total Obligation Authority | 9.505 | 6.436 | 5.248 |  | 5.248 | 6.049 | 6.109 | 6.115 | 6.121 |

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

## Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat

 Vehicles / BSA 10: Weapons \& Other Combat VehiclesID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A

## P-1 Line Item Number / Title:

8190G01506 / Precision Sniper Rifle

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-5 | G01506 / Precision Sniper Rifle | P-5a | A |  | 817 / 14.642 | 443 / 9.505 | 231/6.436 | 165 / 5.248 | - 1 - | 165 / 5.248 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | $817 / 14.642$ | 443/9.505 | 231/6.436 | 165/5.248 | - 1 - | 165/5.248 |

${ }^{*}$ 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 improves sniper survivability.

Army Acquisition Objective (AAO): 2,800
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-5, Cost Analysis: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity

 2033A / 02 / 10ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title:

 8190G01506 / Precision Sniper RifleDate: March 2023

## Item Number / Title [DODIC]:

G01506 / Precision Sniper Rifle

| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 817 | 443 | 231 | 165 | - | 165 |
| Gross/Weapon System Cost (\$ in Millions) | 14.642 | 9.505 | 6.436 | 5.248 | - | 5.248 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 14.642 | 9.505 | 6.436 | 5.248 | - | 5.248 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 14.642 | 9.505 | 6.436 | 5.248 | - | 5.248 |
| (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) | 17.922 | 21.456 | 27.861 | 31.806 | - | 31.806 |

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

| Cost Elements | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost (\$ K) | $\underset{(\text { Each }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$K) | $\underset{(\text { Each }}{\text { Qty }}$ | 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 $(\$ K)$ | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Flyaway Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Precision Sniper $\text { Rifle }^{(\dagger)}$ | 10.131 | 863 | 8.743 | 10.219 | 485 | 4.956 | 10.403 | 231 | 2.403 | 10.588 | 165 | 1.747 | - | - | - | 10.588 | 165 | 1.747 |
| Program Management | - | - | 0.300 | - | - | 0.332 | - | - | 0.616 | - | - | 0.418 | - | - | - | - | - | 0.418 |
| Engineering Support | - | - | 1.078 | - | - | 0.686 | - | - | 0.486 | - | - | 0.478 | - | - | - | - | - | 0.478 |
| Integrated Logistics Support (ILS) | - | - | 0.408 | - | - | 0.194 | - | - | 0.068 | - | - | 0.130 | - | - | - | - | - | 0.130 |
| Total Package Fielding (TPF) (TPF) | - | - | 0.318 | - | - | 0.068 | - | - | 0.139 | - | - | 0.150 | - | - | - | - | - | 0.150 |
| New Equipment Training (NET) | - | - | 0.110 | - | - | 0.136 | - | - | 0.117 | - | - | 0.130 | - | - | - | - | - | 0.130 |
| ASR Conversions | - | - | - | 4.362 | 141 | 0.615 | 5.022 | 279 | 1.401 | 5.271 | 240 | 1.265 | - | - | - | 5.271 | 240 | 1.265 |
| Gage Kit | - | - | - | 1.870 | 100 | 0.187 | 2.167 | 54 | 0.117 | 2.280 | 50 | 0.114 | - | - | - | 2.280 | 50 | 0.114 |
| Day Optical Sighting System | 4.270 | 863 | 3.685 | 4.260 | 485 | 2.066 | 4.714 | 231 | 1.089 | 4.945 | 165 | 0.816 | - | - | - | 4.945 | 165 | 0.816 |
| Subtotal: Recurring Cost | - | - | 14.642 | - | - | 9.240 | - | - | 6.436 | - | - | 5.248 | - | - | - | - | - | 5.248 |


| Non Recurring Cost |
| :--- |
| Supplemental |
| Subtotal: Non Recurring <br> Cost |
| Subtotal: Flyaway Cost |
| Gross/Weapon System |


| - | - | - | - | - | 0.265 | - | - |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| - | - | - | - | - | 0.265 | - | - |
| - | - | $\mathbf{1 4 . 6 4 2}$ | - | - | $\mathbf{9 . 5 0 5}$ | - | - |
| $\mathbf{1 7 . 9 2 2}$ | $\mathbf{8 1 7}$ | $\mathbf{1 4 . 6 4 2}$ | $\mathbf{2 1 . 4 5 6}$ | $\mathbf{4 4 3}$ | $\mathbf{9 . 5 0 5}$ | $\mathbf{2 7 . 8 6 1}$ | $\mathbf{2 3 1}$ |


| - | - | - | - | - |
| ---: | ---: | ---: | ---: | ---: |
|  | - | - | - | - |
| - |  |  |  |  |
| 6.436 | - | - | 5.248 | - |
| 6.436 | 31.806 | 165 | 5.248 | - |


| - | - | - | - |
| :---: | ---: | ---: | ---: | ---: |
| - | - | - | - |
| - | - | - | 5.248 |
|  | 31.806 | 165 | 5.248 |


| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  |  | Date: March 2023 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  | P-1 Line Item Number / Title: 8190G01506 / Precision Sniper Rifle |  |  | Item Number / Title [DODIC]: G01506 / Precision Sniper Rifle |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Remarks: <br> No P-21 form is required for the Precision Sniper Rifle (PSR), as it is a Non-Developmental Item (NDI) Commercial Off-The-Shelf (COTS) solution. Weapon System Unit Cost (U/C) reflects all system components to include the rifle scope, suppressor, optical augmentation device and all other Components Of the End Item (COEI), Basic Issue Items (BII). <br> FY 2022-2024 procurement quantities include upgrades to previously fielded Special Operations Command (SOCOM) MK 22s in to the Precision Sniper Rifles for U.S. Army Special Operation Command (USASOC) units included in the Army Acquisition Objective (AAO). <br> Based on actual execution of the program, P-40 Prior Years quantities should reflect 863 and the FY 2022 quantity should reflect 485 Precision Sniper Rifles and will be updated prior to the FY 2025 budget submission. |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { Total } \end{aligned}$ |
| Army | Quantity | 383 | 93 | 99 | 9 | 99 |
|  | Total Obligation Authority | 8.211 | 2.591 | 3.124 |  | 3.124 |
| ANG | Quantity | 60 | 138 | 64 | 64 | 64 |
|  | Total Obligation Authority | 1.294 | 3.845 | 2.061 | 1 | 2.061 |
| AR | Quantity | - | - |  | 2 | 2 |
|  | Total Obligation Authority | - | - | 0.063 | 63 | 0.063 |
| Total: <br> Secondary Distribution | Quantity | 443 | 231 | 165 | 65 | 165 |
|  | Total Obligation Authority | 9.505 | 6.436 | 5.248 | 8 | 5.248 |

[^6]UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 2033A / } 02 \text { / } 10$ |  |  |  | P-1 Line Item Number / Title: 8190G01506 / Precision Sniper Rifle |  |  |  | Item Number / Title [DODIC]: G01506 / Precision Sniper Rifle |  |  |  |  |
| Cost Elements | O <br> c <br> 0 | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost $(\$ K)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Precision Sniper Rifle |  | 2022 | Barrett Firearms / Christiana, TN | C/FFP | ACC-NJ Picatinny | Mar 2022 | Sep 2022 | 485 | 10.219 | N |  |  |
| Precision Sniper Rifle |  | 2023 | Barrett Firearms / Christiana, TN | SS/FFP | ACC-NJ Picatinny | Jan 2023 | Apr 2023 | 231 | 10.403 | Y |  |  |
| Precision Sniper Rifle |  | 2024 | Barrett Firearms / Christiana, TN | SS/FFP | ACC-NJ Picatinny | Mar 2024 | Jul 2024 | 165 | 10.588 | Y |  |  |

## Remarks:

Some system sub-components (e.g. Direct View Optics and Gage Kits) may be procured through the Defense Logistics Agency (DLA) Tailored Logistics Support contract where practical and cost effective

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

## P-1 Line Item Number / Title:

8201G13501 / Carbine

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat
Program Elements for Code B Items: N/A

| Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40,136 | 699 | - | - | - | - | - | - | - | - | - | 40,835 |
| 282.338 | 7.226 | - | 0.571 | - | 0.571 | 0.570 | 0.340 | 0.340 | - | - | 291.385 |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 282.338 | 7.226 | - | 0.571 | - | 0.571 | 0.570 | 0.340 | 0.340 | - | - | 291.385 |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 282.338 | 7.226 | - | 0.571 | - | 0.571 | 0.570 | 0.340 | 0.340 | - | - | 291.385 |

Total Obligation Authority (\$ in Millions)
(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

| - | - |  |
| :---: | :---: | :---: |
| - | - |  |
| s/ | 7.035 | 10.338 |


|  | - | - |
| :---: | :---: | :---: |
|  | - | - |
| 8 | - | - |


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


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


|  |  |  |  |
| :---: | :---: | :---: | :---: |
| - | - | - | - |
| - | - | - | - |
| - | - | - | 7.136 |

## Description:

 close combat capability relative to peer competitors in complex terrain.


 also includes a back-up iron sight and the adapter rail system to attach accessories and components.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 699 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 7.226 | - | 0.049 | - | 0.049 | 0.048 | 0.040 | 0.040 | - |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 0.261 | - | 0.261 | 0.131 | 0.045 | 0.045 | - |
| AR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 0.261 | - | 0.261 | 0.391 | 0.255 | 0.255 | - |
| Total: <br> Secondary Distribution | Quantity | 699 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 7.226 | - | 0.571 | - | 0.571 | 0.570 | 0.340 | 0.340 | - |

## Justification:



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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons \& Other Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0604601A
P-1 Line Item Number / Title:
8205 G 14510 / Next Generation Squad Weapon

Other Related Program Elements: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 3,983 | 9,380 | 16,186 | 33,473 | - | 33,473 | 43,667 | 26,272 | 26,756 | 24,573 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 35.822 | 97.087 | 166.623 | 292.850 | - | 292.850 | 397.082 | 251.392 | 256.722 | 236.775 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |
| Net Procurement (P-1) (\$ in Millions) | 35.822 | 97.087 | 166.623 | 292.850 | - | 292.850 | 397.082 | 251.392 | 256.722 | 236.775 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 35.822 | 97.087 | 166.623 | 292.850 | - | 292.850 | 397.082 | 251.392 | 256.722 | 236.775 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 8.994 | 10.350 | 10.294 | 8.749 | - | 8.749 | 9.093 | 9.569 | 9.595 | 9.636 | Continuing | Continuing |

## Description:

This funding line is directly aligned to the Army Soldier Lethality Modernization Priority.
This program also supports the National Defense Strategy (NDS) of "Build a More Lethal Force" through enhancement of Joint Lethality in contested environments by means of elimination and/or minimization of close combat capability erosion; specifically, relative to peer competitors, in complex terrain.

Next Generation Squad Weapons (NGSW) is a family of products that includes the M7 Rifle and M250 Automatic Rifle that integrate with the M157 Fire Control and common 6.8 mm ammunition. The M7 Rifle and M250 Automatic Rifle are the planned replacements for select weapons system for individual soldiers, squads, and/or platoons, capable of defeating protected and unprotected threats. The M7 Rifle and M250 Automatic Rifle ensure increased lethality against a broad spectrum of targets beyond current/legacy weapon capabilities; increased range, accuracy, and probability of hit; reduced engagement time; suppressed flash/sound signature; and improved controllability and mobility.

 Control utilizes open architecture to deliver to an initial augmented core capability followed by increasing increments of capability over time as technology matures and evolves.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 <br> Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 9,380 | 9,390 | 21,619 | - | 21,619 | 29,358 | 9,783 | 8,498 | 7,325 |
|  | Total Obligation Authority | 97.087 | 93.781 | 191.555 | - | 191.555 | 265.470 | 105.974 | 115.889 | 108.530 |
| ANG | Quantity | - | 6,796 | 11,854 | - | 11,854 | 14,309 | 16,489 | 18,258 | 17,248 |
|  | Total Obligation Authority | - | 72.842 | 101.295 | - | 101.295 | 131.612 | 145.418 | 140.833 | 128.245 |
| Total: <br> Secondary Distribution | Quantity | 9,380 | 16,186 | 33,473 | - | 33,473 | 43,667 | 26,272 | 26,756 | 24,573 |
|  | Total Obligation Authority | 97.087 | 166.623 | 292.850 | - | 292.850 | 397.082 | 251.392 | 256.722 | 236.775 |

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons \& Other Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0604601A

## P-1 Line Item Number / Title:

8205 G 14510 / Next Generation Squad Weapon

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G14511 / Next Generation Squad Weapon-Automatic Rifle | P-5a, P-21 | A |  | - 1 - | 399 / 3.630 | 711/10.161 | 1,419 / 18.665 | - 1 - | 1,419 / 18.665 |
| P-5 | G14512 / NEXT GENERATION SQUAD WEAPON-RIFLE | P-5a, P-21 | A |  | - 1 - | 3,725/20.862 | 8,336/45.075 | 17,122 / 87.426 | - 1 - | 17,122 / 87.426 |
| P-5 | G14513 / Next Generation Squad Weapon - Fire Control | P-5a, P-21 | A |  | 3,983/35.822 | 5,256/72.595 | 7,139/111.387 | 14,932 / 186.759 | - 1 - | 14,932 / 186.759 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 3,983/35.822 | 9,380/97.087 | 16,186 / 166.623 | 33,473 / 292.850 | - 1 | 33,473/292.850 |

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

## Justification:

FY 2024 Base procurement dollars in the amount of $\$ 292.850$ supports the following:
 Automatic Weapon (SAW) within the Close Combat Force.
 Combat Force.

 provide a squad level capability improvement to maintain overmatch against near peer enemy threats.

 level capability improvement to maintain overmatch against near peer enemy threats.

This funding line is directly aligned to the Army Soldier Lethality Modernization Priority.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objectives (AAOs):
M7 Rifle (NGSW-R): 111,428
M250 Automatic Rifle (NGSW-AR): 13,334
M157 Fire Control (NGSW-FC): 124,749


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| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G14511 / Next Generation Squad Weapon-Automatic Rifle |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 8205G14510 / Next Generation Squad Weapon |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Subtotal: Package Fielding Cost | - | - | . | . | . | . | - | . | 0.336 | - | . | 0.270 | - | . | . | - | . | 0.270 |
| Logistics Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Logistic Support | - | - | - | - | - | 0.144 | - | - | 0.063 | - | - | 0.150 | - | - | - | - | - | 0.150 |
| Subtotal: Recurring Cost | - | - | - | - | - | 0.144 | - | - | 0.063 | - | - | 0.150 | - | - | - | - | - | 0.150 |
| Subtotal: Logistics Cost | - | - | - | - | - | 0.144 | - | - | 0.063 | - | - | 0.150 | - | - | - | - | - | 0.150 |
| Support - Data Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Technical Publications | - | - | - | - | - | - | - | - | 0.248 | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Data Cost | - | - | - | - | - | - | - | - | 0.248 | - | - | - | - | - | - | - | - | - |
| Support - New Equipment Training (NET) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment | - | - | - | - | - | - | - | - | 0.063 | - | - | 0.248 | - | - | - | - | - | 0.248 |
| $\begin{aligned} & \text { Subtotal: Support - New } \\ & \text { Equipment Training (NET) } \\ & \text { Cost } \end{aligned}$ | - | - | - | - | - | - | - | - | 0.063 | - | - | 0.248 | - | - | - | - | - | 0.248 |
| Support - Program Management Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Government Management | - | - | - | - | - | 0.170 | - | - | 0.428 | - | - | 0.432 | - | - | - | - | - | 0.432 |
| Subtotal: Support - Program Management Cost | - | - | - | - | - | 0.170 | - | - | 0.428 | - | - | 0.432 | - | - | - | - | - | 0.432 |
| Support - System Engineering Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| System Engineering | - | - | - | - | - | 0.250 | - | - | 0.522 | - | - | 0.600 | - | - | - | - | - | 0.600 |
| Subtotal: Support - System Engineering Cost | - | - | - | - | - | 0.250 | - | - | 0.522 | - | - | 0.600 | - | - | - | - | - | 0.600 |
| Gross/Weapon System Cost | - | - | - | 9.998 | 399 | 3.630 | 14.291 | 711 | 10.161 | 13.154 | 1,419 | 18.665 | - | - | - | 13.154 | 1,419 | 18.665 |

## Remarks:

Based on actual execution of the program FY 2022 and $F Y 2023$ quantities will be updated prior to the FY 2025 budget submission.
Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods.
FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule.

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| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  |  | Date: March 2023 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A/02/10 |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  | Item Number / Title [DODIC]: <br> G14511 / Next Generation Squad Weapon-Automatic Rifle |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{aligned} & \text { FY } 2024 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| Army | Quantity | 399 | 401 | 768 | 8 | 768 |
|  | Total Obligation Authority | 3.630 | 5.888 | 12.209 | 9 | 12.209 |
| ANG | Quantity | - | 310 | 651 | 1 | 651 |
|  | Total Obligation Authority | - | 4.273 | 6.456 | 6 | 6.456 |
| Total: <br> Secondary Distribution | Quantity | 399 | 711 | 1,419 | 9 | 1,419 |
|  | Total Obligation Authority | 3.630 | 10.161 | 18.665 | 5 | 18.665 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  | P-1 Line Item Number / Title: <br> 8205G14510 / Next Generation Squad Weapon |  |  |  | Item Number / Title [DODIC]: <br> G14511 / Next Generation Squad Weapon-Automatic Rifle |  |  |  |  |
| 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 $(\$ K)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Next Generation Squad Weapon Automatic Rifle ${ }^{(\dagger)}$ |  | 2022 | SIG Sauer Inc / Newington NH 03801-6801 | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Dec 2022 | Oct 2023 | 251 | 10.869 | N |  | Jul 2021 |
| Next Generation Squad Weapon Automatic Rifle ${ }^{(\dagger)}$ |  | 2023 | SIG Sauer Inc / Newington NH 03801-6801 | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Aug 2023 | Feb 2024 | 711 | 11.935 | N |  |  |
| Next Generation Squad Weapon - <br> Automatic Rifle ${ }^{(\dagger)}$ |  | 2024 | SIG Sauer Inc / Newington NH 03801-6801 | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Jan 2024 | Aug 2024 | 1,419 | 11.337 | N |  |  |

${ }^{(t)}$ indicates the presence of a P-21
Remarks:
Based on actual execution of the program FY 2022 and FY 2023 quantities will be updated prior to the FY 2025 budget submission.
Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods.
FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule.

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G14511 / Next Generation Squad Weapon-Automatic Rifle |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A/02/10 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \hline \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \\ & \hline \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{array}{\|l\|} \hline \text { PKIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2022 \\ \hline \end{array}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | o c T | N | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A Y | J N | J L | A U G | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J U | J | A U G | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| Next Generation Squad Weapon - Automatic Rifle |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 251 | 0 | 251 |  |  | A - | - | - | - | - | - | - | - | . | - | 60 | 60 | 60 | 60 | 11 |  |  |  |  |  |  |  | 0 |
| 1 | 2023 | ARMY | 711 | 0 | 711 |  |  |  |  |  |  |  |  |  |  | A | - | - | - | - | - | 115 | 115 | 115 | 115 | 115 | 115 | 21 |  | 0 |
| 1 | 2024 | ARMY | 1,419 | 0 | 1,419 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 99 | 120 | 1,200 |
|  |  |  |  |  |  | $\stackrel{\square}{\mathrm{c}}$ | $\stackrel{N}{\mathrm{~N}}$ | D | ${ }_{\text {J }}$ | F | M A | A <br> P | M ${ }_{\text {A }}$ | u | u | A | S | - | N | D | A | F | ${ }_{\text {M }}^{\text {M }}$ | A | M | u | ${ }^{\text {J }}$ | ${ }_{\text {A }}^{\text {a }}$ | S |  |
|  |  |  |  |  |  | T | v | c | N | B | R | R | Y | N | L | G | P | T | v | c | N | в | R | R | Y | N |  | G | P |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G14511 / Next Generation Squad Weapon-Automatic Rifle |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A/02/10 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2026 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  |  |  |  |  |  |  |  |  | endar | a 20 |  |  |  |  |  |  |  |  |  | ar Y |  |  |  |  |  |
|  | FY | SERVICE | PROC OTY | PRIOR <br> TO 1 <br> OCT <br> 2024 | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & F \\ & E \\ & E \\ & B \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \mathrm{R} \end{aligned}$ | A P R | M $\begin{aligned} & \text { M } \\ & \text { A } \\ & \mathrm{Y}\end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J | A | S E P | O | N | D E C | J A N | F E B | M A R | A <br> P <br> R | M A Y | J | ${ }_{\text {J }}^{\text {J }}$ | A | S E P |  |
| Next Generation Squad Weapon - Automatic Rifle |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 251 | 251 | 0 | 120 120 120 120 120 120 120 120 120 120 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2023 | ARMY | 711 | 711 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2024 | ARMY | 1,419 | 219 | 1,200 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | $\stackrel{\text { O }}{\text { c }}$ | N | D | ${ }_{\text {a }}$ | F | M | A | M | J | J | A | S | $\stackrel{0}{\mathrm{c}}$ | N | D | ${ }_{\text {a }}$ | $\stackrel{F}{\text { F }}$ | M ${ }_{\text {M }}$ | A | M | J | J | A | S |  |
|  |  |  |  |  |  | T | v | c | N | B | R | R | Y | N | L | G | P | T | v | c | N | B | R | R | Y | N | L | G | P |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  | Item Number / Title [DODIC]: <br> G14511 / Next Generation Squad Weapon-Automatic Rifle |  |  |
| $\begin{array}{\|c\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2024 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2024 | 1-8-5 For 2024 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 |
| 1 | SIG Sauer Inc - Newington NH 03801-6801 | 20 | 120 | 300 | 4 | 2 | 6 | 8 | 1 | 2 | 6 | 8 |

"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 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A/02/10 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 8205G14510 / Next Generation Squad Weapon |  |  |  |  |  |  |  | Item Number / Title [DODIC]: G14512 / NEXT GENERATION SQUAD WEAPON-RIFLE |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $\qquad$ | Unit Cost <br> (\$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) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Integrated Logistic Support | - | - | - | - | - | 0.600 | - | - | 0.336 | - | - | 0.490 | - | - | . | - | - | 0.490 |
| Subtotal: Recurring Cost | - | - |  | - | - | 0.600 | - | - | 0.336 | - | - | 0.490 | - | - | - | - | - | 0.490 |
| Subtotal: Logistics Cost | - | - | - | - | - | 0.600 | - | - | 0.336 | - | - | 0.490 | - | - | - | - | - | 0.490 |
| Support - Acceptance Testing Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| First Aricle Test | - | - | - | - | - | 0.500 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support Acceptance Testing Cost | - | - | - | - | - | 0.500 | - | - | - | - | - | - | - | - | - | - | . | - |
| Support - Data Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Technical Publications | - |  |  | - | - | 0.500 | - | - | 0.271 | - | - | 0.500 | - | - | - | - | - | 0.500 |
| $\begin{aligned} & \text { Subtotal: Support - Data } \\ & \text { Cost } \end{aligned}$ | - | - | - | - | - | 0.500 | - | - | 0.271 | - | - | 0.500 | - | - | - | - | - | 0.500 |
| Support - Engineering Change Proposals Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Engineering Change Proposals | - | - | - | - | - | 0.460 | - | - | - | - | - | 0.700 | - | - | - | - | - | 0.700 |
| Subtotal: Support Engineering Change Proposals Cost | - | - | - | - | - | 0.460 | - | - | - | - | - | 0.700 | - | - | - | - | - | 0.700 |
| Support - New Equipment Training (NET) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment | - | - | - | - | - | 0.514 | - | - | 0.126 | - | - | 0.493 | - | - | - | - | - | 0.493 |
| $\begin{aligned} & \text { Subtotal: Support - New } \\ & \text { Equipment Training (NET) } \\ & \text { Cost } \end{aligned}$ | - | - | - | - | - | 0.514 | - | - | 0.126 | - | - | 0.493 | - | - | - | - | . | 0.493 |
| Support - Program Management Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Government Management | - | - | - | - | - | 1.278 | - | - | 1.272 | - | - | 1.760 | - | - | - | - | - | 1.760 |
| Subtotal: Support - Program Management Cost | - | - | - | - | - | 1.278 | - | - | 1.272 | - | - | 1.760 | - | - | - | - | - | 1.760 |
| Support - System Engineering Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| System Engineering | - | - | - | - | - | 3.500 | - | - | 1.240 | - | - | 1.283 | - | - | - | - | - | 1.283 |
| Subtotal: Support - System Engineering Cost | - | - | - | - | - | 3.500 | - | - | 1.240 | - | - | 1.283 | - | - | - | - | - | 1.283 |
| Gross/Weapon System Cost |  |  |  | 5.601 | 3,725 | 20.862 | 5.407 | 8,336 | 45.075 | 5.106 | 17,122 | 87.426 |  | - |  | 5.106 | 17,122 | 87.426 |

## Remarks:

Based on actual execution of the program FY 2022 and FY 2023 quantities will be updated prior to the FY 2025 budget submission. Actual contract unit price in FY 22 was $\$ 4.243 \mathrm{~K}$ for a quantity of 2,501 rifles.

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| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G14512 / NEXT GENERATION SQUAD WEAPON-RIFLE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity 2033A / 02 / 10 | / Budget Sub Activity: | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods. <br> FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule. |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| Army | Quantity | 3,725 | 5,251 | 11,223 | 2 | 11,223 |
|  | Total Obligation Authority | 20.862 | 28.991 | 57.186 | 源 | 57.186 |
| ANG | Quantity | - | 3,085 | 5,899 | 9 | 5,899 |
|  | Total Obligation Authority | - | 16.084 | 30.240 | 40 | 30.240 |
| Total: <br> Secondary Distribution | Quantity | 3,725 | 8,336 | 17,122 | 22 | 17,122 |
|  | Total Obligation Authority | 20.862 | 45.075 | 87.426 | , | 87.426 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A/02/10 |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  | Item Number / Title [DODIC]: <br> G14512 / NEXT GENERATION SQUAD WEAPON-RIFLE |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Next Generation Squad Weapon - <br> Rifle (NGSW-R) ${ }^{(\dagger)}$ |  | 2022 | SIG Sauer Inc / Newington NH 03801-6801 | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Dec 2022 | Oct 2023 | 2,501 | 5.140 | N |  | Jul 2021 |
| Next Generation Squad Weapon Rifle (NGSW-R) ${ }^{(\dagger)}$ |  | 2023 | SIG Sauer Inc / Newington NH 03801-6801 | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Aug 2023 | Feb 2024 | 8,336 | 4.648 | N |  |  |
| Next Generation Squad Weapon Rifle (NGSW-R) ${ }^{(\dagger)}$ |  | 2024 | SIG Sauer Inc / Newington NH 03801-6801 | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Jan 2024 | Aug 2024 | 17,122 | 4.407 | N |  |  |

${ }^{(t)}$ indicates the presence of a P-21
Remarks:
Based on actual execution of the program FY 2022 and FY 2023 quantities will be updated prior to the FY 2025 budget submission. Actual contract unit price in FY 2022 was $\$ 4.243$ K for a quantity of 2,501 rifles.
Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods.
FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule.

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  |  |  |  |  |  |  |  | Item Number / Title [DODIC]: G14512 / NEXT GENERATION SQUAD WEAPON-RIFLE |  |  |  |  |  |  |  |
| Cost Elements(Units in Thousands) |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \\ & \text { } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | CRIOR TO 1 OCT 2022 | $\begin{aligned} & \text { BAL } \\ & \text { DUE } \\ & \text { AS OF } \\ & 1 \text { OCT } \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | J A N | F E B | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A <br> P <br> R | M A Y | J N | J | A U G | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathbf{P} \\ & \mathbf{R} \end{aligned}$ | M A Y | J | J u L | A U G | S E P |  |
| Next | enerat | on Squad We | apon - Rifle | le (NGSW-R) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 2.501 | . 000 | 2.501 |  |  | A - | - |  | - | - | - | - | - | - | - | . 620 | . 620 | . 620 | . 620 | . 021 |  |  |  |  |  |  |  | . 000 |
| 1 | 2023 | ARMY | 8.336 | . 000 | 8.336 |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | 1.380 | 1.390 | 1.390 | 1.390 | 1.390 | 1.390 | . 006 |  | . 000 |
| 1 | 2024 | ARMY | 17.122 | . 000 | 17.122 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 1.426 | 1.426 | 14.270 |
|  |  |  |  |  |  | O <br> c | N V V | D E c | J A N | F E B | M A R | A P R | M A Y | J N | ${ }_{\text {u }}^{\text {u }}$ | A | S E P | ¢ c ¢ | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline J \\ & A \\ & N \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M <br>  <br> R <br> R | A <br>  <br> P <br> R | M A Y | J U N | $\mathrm{J}_{\mathrm{u}}$ | A U G | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G14512 / NEXT GENERATION SQUAD WEAPON-RIFLE |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Thousands) |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2026 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \\ & \hline \end{aligned}$ |
|  | FY | SERVICE | PROC QTY | ACCEPT <br> PRIOR <br> TO 1 <br> OCT <br> O204 | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \\ & \hline \end{aligned}$ | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2026 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { J } \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | A | S E P | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \hline \end{aligned}$ | A <br>  <br> $\mathbf{P}$ <br> $\mathbf{R}$ | M | J U N | J u L | A U G | S <br> E <br> P |  |
| Next Generation Squad Weapon - Rifle (NGSW-R) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 2.501 | 2.501 | . 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | . 000 |
| 1 | 2023 | ARMY | 8.336 | 8.336 | . 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | . 000 |
| 1 | 2024 | ARMY | 17.122 | 2.852 | 14.270 | 1.427 | 1.427 | 1.427 | 1.427 | 1.427 | 1.427 | 1.427 | 1.427 | 1.427 | 1.427 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | . 000 |
|  |  |  |  |  |  | - | N | D | ${ }_{\text {J }}$ | F | M ${ }_{\text {A }}$ | A | M | J | J | A U | S | - | N 0 | D | ${ }_{\text {a }}$ | F | M | A | M ${ }_{\text {M }}$ | $\mathrm{J}^{\mathrm{J}}$ | u | A U d | S |  |
|  |  |  |  |  |  | T | v | c | N | B | R | R | Y | N | L | G | P | T | v | c | N | B | R | R | Y | N | L | G | P |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  | Item Number / Title [DODIC]: <br> G14512 / NEXT GENERATION SQUAD WEAPON-RIFLE |  |  |
| $\begin{array}{\|c\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2024 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2024 | 1-8-5 For 2024 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 |
| 1 | SIG Sauer Inc - Newington NH 03801-6801 | 250 | 1,427 | 5,000 | 4 | 2 | 6 | 8 | 1 | 2 | 6 | 8 |

"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-5, Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G14513 / Next Generation Squad Weapon - Fire Control |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 8205G14510 / Next Generation Squad Weapon |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ 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) | 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) |
| Total Package Fielding | - | - | - | - | - | 0.720 | - | - | 1.976 | - | - | 2.620 | - | - | - | - | - | 2.620 |
| Subtotal: Recurring Cost | - | - | - | - | - | 0.720 | - | - | 1.976 | - | - | 2.620 | - | - | - | - | - | 2.620 |
| Subtotal: Package Fielding Cost | - | - | - | - | - | 0.720 | - | - | 1.976 | - | - | 2.620 | - | - | - | - | - | 2.620 |
| Logistics Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Logistics Support (ILS) | - | - | 0.124 | - | - | 0.300 | - | - | 1.419 | - | - | 2.180 | - | - | - | - | - | 2.180 |
| Subtotal: Recurring Cost | - | - | 0.124 | - | - | 0.300 | - | - | 1.419 | - | - | 2.180 | - | - | - | - | - | 2.180 |
| Subtotal: Logistics Cost | - | - | 0.124 | - | - | 0.300 | - | - | 1.419 | - | - | 2.180 | - | - | - | - | - | 2.180 |
| Support - New Equipment Training (NET) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment | - | - | - | - | - | 0.695 | - | - | 2.104 | - | - | 2.800 | - | - | - | - | - | 2.800 |
| Subtotal: Support - New Equipment Training (NET) Cost | - | - | - | - | - | 0.695 | - | - | 2.104 | - | - | 2.800 | - | - | - | - | - | 2.800 |
| Support - Program Management Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Government Management | - | - | 0.010 | - | - | 1.743 | - | - | 4.507 | - | - | 4.600 | - | - | - | - | - | 4.600 |
| Subtotal: Support - Program Management Cost | - | - | 0.010 | - | - | 1.743 | - | - | 4.507 | - | - | 4.600 | - | - | - | - | - | 4.600 |
| Support - System Engineering Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| System Engineering | - | - | - | - | - | 1.474 | - | - | 1.984 | - | - | 2.053 | - | - | - | - | - | 2.053 |
| Subtotal: Support - System Engineering Cost | - | - | - | - | - | 1.474 | - | - | 1.984 | - | - | 2.053 | - | - | - | - | - | 2.053 |
| Support - System Test and Evaluation Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test and Evaluation Support | - | - | - | - | - | 0.370 | - | - | - | - | - | 2.500 | - | - | - | - | - | 2.500 |
| Subtotal: Support - System Test and Evaluation Cost | - | - | - | - | - | 0.370 | - | - | - | - | - | 2.500 | - | - | - | - | - | 2.500 |
| Gross/Weapon System Cost | 8.994 | 3,983 | 35.822 | 13.812 | 5,256 | 72.595 | 15.603 | 7,139 | 111.387 | 12.507 | 14,932 | 186.759 | - | - | - | 12.507 | 14,932 | 186.759 |

## Remarks:

Based on actual execution of the program FY 2022 and FY 2023 quantities will be updated prior to the FY 2025 budget submission. Actual quantity procured in FY 22 is 5,719 .
Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods.

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| Exhibit P-5, Cost Analysis: PB 2024 Army |  |  |  |  | Date: March 2023 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  | Item Number / Title [DODIC]: <br> G14513 / Next Generation Squad Weapon - Fire Control |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule. Long manufacturing production lead time due to electronic supply chain challenges. |  |  | MDAP/MAIS Code: |  |  |  |
|  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ |
| Army | Quantity | 5,256 | 3,738 | 9,628 | 8 | 9,628 |
|  | Total Obligation Authority | 72.595 | 58.902 | 122.160 | 0 | 122.160 |
| ANG | Quantity | - | 3,401 | 5,304 | 4 | 5,304 |
|  | Total Obligation Authority | - | 52.485 | 64.599 | 9 | 64.599 |
| Total: Secondary Distribution | Quantity | 5,256 | 7,139 | 14,932 | 2 | 14,932 |
|  | Total Obligation Authority | 72.595 | 11.387 | 186.759 | 9 | 186.759 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 2033A / } 02 \text { / } 10$ |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  | Item <br> G14 <br> Wea | Number 13 / Next on - Fire | Title Gene Contr | DODIC]: <br> ation Squad |  |
| 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 | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost $(\$ K)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| M157 Fire Control Systems |  | 2021 | Sheltered Wings DBA Vortex Optics / 1 Vortex Drive Barneveld, WI 53507 | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Jan 2022 | Dec 2022 | 1,989 | 12.604 | N |  | Mar 2021 |
| M157 Fire Control Systems ${ }^{(\dagger)}$ |  | 2022 | Sheltered Wings DBA Vortex Optics / 1 Vortex Drive Barneveld, WI 53507 | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Jan 2022 | Dec 2022 | 5,256 | 12.609 | N |  |  |
| M157 Fire Control Systems ${ }^{(\dagger)}$ |  | 2023 | Sheltered Wings DBA Vortex Optics / 1 Vortex Drive Barneveld, WI 53507 | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Mar 2023 | Mar 2025 | 7,139 | 13.624 | N |  | Sep 2021 |
| M157 Fire Control Systems ${ }^{(\dagger)}$ |  | 2024 | Sheltered Wings DBA Vortex Optics I 1 Vortex Drive Barneveld, WI 53507 | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Jan 2024 | Jan 2026 | 14,932 | 10.962 | N |  |  |

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

## Remarks:

Based on actual execution of the program FY 2022 and FY 2023 quantities will be updated prior to the FY 2025 budget submission. Actual quantity procured in FY 2022 is 5,719 .
Unit costs are firm fixed price contract for all years and ordering periods and are procured in different quantity ranges and ordering periods.
FY 2024 funding increases ramp production capacity to support Army's planned fielding schedule.
Long manufacturing production lead time due to electronic supply chain challenges.

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G14513 / Next Generation Squad Weapon - Fire Control |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$2033 \text { A / } 02 \text { / } 10$ |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Thousands) |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} B \\ A \\ A \\ A \\ A \\ \text { N } \\ C \\ E \\ \hline \end{gathered}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | PRIOR <br> TO 1 <br> OCT <br> 2021 | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N O v | D E C | J ${ }_{\text {J }}$ | F E B | M A R | A P R | M A Y | J u | ${ }_{\text {J }}^{\text {u }}$ | A U G | S E P | O c T | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \\ & \hline \end{aligned}$ | J N | $\begin{aligned} & F \\ & E \\ & E \\ & B \end{aligned}$ | M A R | A <br> P <br> R | M A Y | J u | $\mathrm{J}_{\mathrm{J}}^{\mathrm{u}}$ | A U G | $\begin{aligned} & \mathbf{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| M157 | Fire Con | ntrol Systems |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 5.256 | . 000 | 5.256 |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | . 438 | . 438 | . 438 | . 438 | . 438 | . 438 | . 438 | . 438 | . 438 | . 438 | . 876 |
| 1 | 2023 | ARMY | 7.139 | . 000 | 7.139 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 7.139 |
| 1 | 2024 | ARMY | 14.932 | . 000 | 14.932 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14.932 |
|  |  |  |  |  |  | O c T | N | D E C | J $\begin{aligned} & \text { A } \\ & \mathrm{N}\end{aligned}$ | F E B | M A R | A <br> P <br> R | M A Y | J | u | A | S E P | O c T | N V - | D E C | J A N | $\begin{aligned} & \hline F \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br>  <br> P <br> R | M A Y | J | J | A | S |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G14513 / Next Generation Squad <br> Weapon - Fire Control |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Thousands) |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC | $\begin{gathered} \text { RRO } \\ \text { TO } \\ \text { OCT } \\ 2023 \end{gathered}$ | $\begin{gathered} \mathrm{BAL} \\ \mathrm{DUE} \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | D E c | J A N | F E B | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br>  <br> P <br> R | M | J N | J | A U G | S E P | 0 c T | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | F E B | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J u | J u L | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| M157 | Fire Co | trol System |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 5.256 | 4.380 | . 876 | . 438 | . 438 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | . 000 |
| 1 | 2023 | ARMY | 7.139 | . 000 | 7.139 | - | - | - | - | - | - | - | - | - | - |  |  | - |  |  |  | - | . 300 | . 400 | . 500 | . 595 | . 595 | . 595 | . 595 | 3.559 |
| 1 | 2024 | ARMY | 14.932 | . 000 | 14.932 |  |  |  | A - | - | - | - |  | - | - |  | - | - |  |  | - |  | - | - | - | - | - | - | - | 14.932 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | F E B | M A R | A <br>  <br>  <br> R | M ${ }_{\text {M }}^{\text {A }}$ | J | J | A | S E P | O c T | N | D E C | J | F | $\begin{aligned} & \hline \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br> P <br> R | M A Y | J | ${ }_{\text {J }}^{\text {u }}$ | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> G14513 / Next Generation Squad <br> Weapon - Fire Control |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Thousands) |  |  |  |  |  | Fiscal Year 2026 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2027 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \hline \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \hline \end{aligned}$ |
|  |  | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { OTY } \end{aligned}$ | ACCEPT <br> PRIOR <br> TOO <br> OCT <br> OTT <br> 2025 | $\begin{gathered} \mathrm{BAL} \\ \text { DUE } \\ \text { AS OF } \\ 1 \mathrm{OCT} \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \\ & \hline \end{aligned}$ | Calendar Year 2026 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2027 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { J } \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathbf{P} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & \text { U } \\ & G \end{aligned}$ | $\begin{aligned} & \mathbf{S} \\ & \mathbf{E} \\ & \mathbf{P} \end{aligned}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \\ & \hline \end{aligned}$ | $\begin{aligned} & F \\ & E \\ & E \\ & B \end{aligned}$ | M A R | A <br> P <br> R <br> R | M $\begin{aligned} & \text { M } \\ & \text { Y } \\ & \mathrm{Y}\end{aligned}$ | J U N | J | A U G | S E P |  |
| M157 Fire Control Systems |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2022 | ARMY | 5.256 | 5.256 | . 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | . 000 |
| 1 | 2023 | ARMY | 7.139 | 3.580 | 3.559 | . 595 | . 741 | . 741 | . 741 | . 741 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | . 000 |
| 1 | 2024 | ARMY | 14.932 | . 000 | 14.932 | - | - | - | 1.245 | 1.245 | 1.245 | 1.245 | 1.245 | 1.245 | 1.245 | 1.245 | 1.245 | 1.245 | 1.245 | 1.237 |  |  |  |  |  |  |  |  |  | . 000 |
|  |  |  |  |  |  | $\stackrel{\text { O }}{\text { c }}$ | N 0 | D | ${ }_{\text {J }}$ | $\underset{\mathrm{E}}{\mathrm{F}}$ | M ${ }_{\text {A }}$ | A | M ${ }_{\text {M }}$ | u | J | A | S | $\stackrel{0}{\mathrm{c}}$ | N | D | ${ }_{\text {J }}$ | F | M | ${ }_{\text {A }}^{\text {A }}$ | M ${ }_{\text {M }}$ | J | J | A U d | S |  |
|  |  |  |  |  |  | T | v | c | N | B | R | R | Y | N | L | G | P | T | v | c | N | B | R | R | Y | N | L | G | P |  |

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| Exhibit P-21, Production Schedule: PB 2024 Army |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  | P-1 Line Item Number / Title: <br> 8205G14510 / Next Generation Squad Weapon |  |  |  |  | Item Number / Title [DODIC]: <br> G14513 / Next Generation Squad <br> Weapon - Fire Control |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2024 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2024 | 1-8-5 For 2024 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | 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 | Sheltered Wings DBA Vortex Optics - 1 Vortex Drive Barneveld, WI 53507 | 150 | 1,290 | 2,500 | 6 | 9 | 11 | 20 | 1 | 4 | 18 | 22 |

## Remarks:

Long manufacturing production lead time due to electronic supply chain challenges.
"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 2024 Army
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 10: Weapons \& Other Combat Vehicles
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
8635G15325 / Handgun

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2024$ Total | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 69.136 | 4.930 | - | 0.032 | - | 0.032 | 0.033 | 0.007 | 0.007 | - | - | 74.145 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 69.136 | 4.930 | - | 0.032 | - | 0.032 | 0.033 | 0.007 | 0.007 | - | - | 74.145 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 69.136 | 4.930 | - | 0.032 | - | 0.032 | 0.033 | 0.007 | 0.007 | - | - | 74.145 |
| (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) | - | 3.526 | - | 0.200 | - | 0.200 | 0.206 | 0.233 | 0.233 | - | - | 41.701 |

## Description:





 maintainability. The Modular Handgun System is ambidextrous capable and accommodates 5th-95th percentile users via modular grips and access to all controls with one hand.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.930 | - | 0.032 | - | 0.032 | 0.033 | 0.007 | 0.007 | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.930 | - | 0.032 | - | 0.032 | 0.033 | 0.007 | 0.007 | - |

## Justification:

FY 2024 Base procurement dollars in the amount of $\$ 0.032$ million supports the procurement of two-hundred (200) General Officer (GO) pistols and various spare parts for the Handgun.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Handgun's Army Acquisition Objective (AAO) of 233,429 was met in FY 2020.

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

## Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat

 Vehicles / BSA 20: Mod of Weapons and Other Combat VehID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0604601A
Other Related Program Elements: 0604802A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 57.356 | 35.121 | - | - | - | - | - | - | - | - | - | 92.477 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 57.356 | 35.121 | - | - | - | - | - | - | - | - | - | 92.477 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 57.356 | 35.121 | - | - | - | - | - | - | - | - | - | 92.477 |
| (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) | 37.586 | 9.146 | - | - | - | - | - | - | - | - | - | 17.234 |

## Description:









 (PU) provides the means for fuze setting for the 40 mm High Velocity, High Explosive Dual Purpose-Air Burst (HEDP-AB) capability for the MK-19.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 35.121 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 35.121 | - | - | - | - | - | - | - | - |

## Justification:

There is no FY 2024 budget request for this funding line.

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

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

## P-1 Line Item Number / Title:

3005GZ1700 / M777 Mods

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | 42 | - | 42 | 264 | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 165.045 | 16.576 | 3.374 | 18.920 | - | 18.920 | 20.014 | 2.424 | 1.556 | 1.557 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 165.045 | 16.576 | 3.374 | 18.920 | - | 18.920 | 20.014 | 2.424 | 1.556 | 1.557 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 165.045 | 16.576 | 3.374 | 18.920 | - | 18.920 | 20.014 | 2.424 | 1.556 | 1.557 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | 450.476 | - | 450.476 | 75.811 | - | - | - | Continuing | Continuing |

## Description:









 interoperability and survivability on the battlefield.
 Mission Computers, Chief of Section Display, and Assured Position, Navigation and Timing (A-PNT) (aka: M-Code).

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | 42 | - | 42 | 162 | - | - | - |
|  | Total Obligation Authority | 16.576 | 3.374 | 12.017 | - | 12.017 | 10.335 | 1.389 | 1.556 | 1.557 |
| ANG | Quantity | - | - | - | - | - | 102 | - | - | - |
|  | Total Obligation Authority | - | - | 6.903 | - | 6.903 | 9.679 | 1.035 | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | 42 | - | 42 | 264 | - | - | - |
|  | Total Obligation Authority | 16.576 | 3.374 | 18.920 | - | 18.920 | 20.014 | 2.424 | 1.556 | 1.557 |

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

## Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat

 Vehicles / BSA 20: Mod of Weapons and Other Combat VehID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
3005GZ1700 / M777 Mods

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GZ1700 / M777 Mods (Increase Performance) |  | A |  | - /165.045 | - /16.576 | - 13.374 | 42 / 18.920 | - 1 | 42 / 18.920 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /165.045 | - / 16.576 | - 13.374 | 42 / 18.920 | - 1 | 42 / 18.920 |
| Exhibits Schedule |  |  |  |  | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GZ1700 / M777 Mods (Increase Performance) |  | A |  | 264 / 20.014 | - 12.424 | - /1.556 | - /1.557 | Continuing | Continuing |
| P-40 | Total Gross/Weapon System Cost |  |  |  | $264 / 20.014$ | - 12.424 | - 11.556 | - 11.557 | Continuing | Continuing |

*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:



 current operational tempo. Modernization efforts to the Digital Fire Control System (DFCS) will enable continued system readiness.
 and procurement of radio integration kits to support operational requirements.
 defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-3a, Individual Modification: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20 |  |  | P-1 Line Item Number / Title: 3005GZ1700 / M777 Mods |  |  |  |  |  | Modification Number / Title: GZ1700 / M777 Mods |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | 42 | - | 42 | 264 | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 165.045 | 16.576 | 3.374 | 18.920 | - | 18.920 | 20.014 | 2.424 | 1.556 | 1.557 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Milions) | 165.045 | 16.576 | 3.374 | 18.920 | - | 18.920 | 20.014 | 2.424 | 1.556 | 1.557 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 165.045 | 16.576 | 3.374 | 18.920 | - | 18.920 | 20.014 | 2.424 | 1.556 | 1.557 | Continuing | Continuing |
| (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) | - | - | - | 450.476 | - | 450.476 | 75.811 | - | - | - | Continuing | Continuing |

## Description:

Modification 1-Retrofit and Composite Fielding Activities: Funding will support field retrofits of previously contracted Engineering Change Proposals for items such as the Mission Computer (MSC-R), Chief of Section Display (CSD-R), upgraded software, and radio hardware integration kits.

Modification 2 - Digital Fire Control System Modifications: Funding will address security and supportability issues through Software and Hardware Engineering Change Proposals. Specific Digital Fire Control Electronic Components to be procured and fielded such as: New Digital Fire Control Computers and Display Units and Radio Integration Kits. These components are required to support security and obsolescence issues and maintain current operational tempo.

| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | 42 | - | 42 | 162 | - | - | - |
|  | Total Obligation Authority | 16.576 | 3.374 | 12.017 | - | 12.017 | 10.335 | 1.389 | 1.556 | 1.557 |
| ANG | Quantity | - | - | - | - | - | 102 | - | - | - |
|  | Total Obligation Authority | - | - | 6.903 | - | 6.903 | 9.679 | 1.035 | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | 42 | - | 42 | 264 | - | - | - |
|  | Total Obligation Authority | 16.576 | 3.374 | 18.920 | - | 18.920 | 20.014 | 2.424 | 1.556 | 1.557 |

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 02 / 20ID Code (A=Service Ready, B=Not Service Ready) : A

P-1 Line Item Number / Title: 3005GZ1700 / M777 Mods

Date: March 2023

## Modification Number / Title:

GZ1700 / M777 Mods

Models of Systems Affected: M777A2

| Models of Systems Affected: M777A2 | Modification Type: Increase Performance |  |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |

Modification Type: Increase Performance
Related RDT\&E PEs:

Procurement
Modification Item 1 of 3: Retrofit and Composite
Fielding Activities
A Kits

| Recurring |
| :---: |
| Retrofit \& Composite Fielding Activities |
| Subtotal: Recurring |
| Subtotal: Retrofit and Composite Fielding Activities |
| Modification Item 2 of 3. Digitial Fire Control System |

Modification Item 2 of 3: Digitial Fire Control System Modifications

| A Kits |
| :---: |
| Recurrin |


| APNT Intiatives | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | $162 / 7.306$ | - 1- | - 1- | - 1 - | Continuing | Continuing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Recurring | 1 - | 1 | 1 | - / - | 1 | - / - | 162/7.306 | - / - | 1 | 1 | Continuing | Continuing |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Engineering Change Proposal | - /12.895 | 1 | /1.924 | - /12.656 | 1 | - /12.656 | 102/10.812 | - 10.827 | - 1 - | - 1 - | Continuing | Continuing |
| Radio Integration Kits | 1 - | - /15.976 | 1 - | $42 / 4.114$ | 1 | $42 / 4.114$ | - 1 - | - 1 - | - 1 - | - 1 | - 1 | $42 / 20.090$ |
| Software Integration | - 12.700 | 1 - | 1 - | - 1 - | 1 | - 1 - | 1 | - 1 | - 1 - | - 1 - | - 1 - | - 12.700 |
| Electronic Communication Components | $490 / 9.287$ | 1 | 1 - | 1 - | 1 | 1 | 1 | - 1 - | - 1 - | - 1 - | - 1 - | 490/9.287 |
| Subtotal: Non-Recurring | 490 / 24.882 | - /15.976 | - /1.924 | $42 / 16.770$ | - / - | 42/16.770 | 102/10.812 | - 10.827 | / - | / - | Continuing | Continuing |
| Subtotal: Digitial Fire Control System Modifications | 490 / 24.882 | - /15.976 | - /1.924 | 42/16.770 | / - | 42/16.770 | 264/18.118 | - 10.827 | / - | / - | Continuing | Continuing |
| Modification Item 3 of 3: Previous Modifications |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Previous Modifications | - /112.919 | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1112.919 |
| Subtotal: Non-Recurring | - /112.919 | - 1 - | - 1 - | - 1 - | 1 | - 1 | - 1 | - 1 | 1 | 1 - | - 1 | - /112.919 |
| Subtotal: Previous Modifications | - / 112.919 | - / - | 1 - | - 1 - | 1 | - 1 - | / - | - 1 - | - 1 - | - / - | - 1 - | - /112.919 |
| Subtotal: Procurement, All Modification Items | 490/165.045 | - /16.576 | - 13.374 | 42/18.920 | - / - | 42/18.920 | 264/20.014 | - /2.424 | - /1.556 | - /1.557 | Continuing | Continuing |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | / - |

## Total

UNCLASSIFIED


UNCLASSIFIED


UNCLASSIFIED


UNCLASSIFIED


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

## Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat

 Vehicles / BSA 20: Mod of Weapons and Other Combat VehProgram Elements for Code B Items: 0604601A
Other Related Program Elements: N/A

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2024$ Total | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 407.300 | 7.076 | 3.000 | - | - | - | - | - | - | - | - | 417.376 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 407.300 | 7.076 | 3.000 | - | - | - | - | - | - | - | - | 417.376 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 407.300 | 7.076 | 3.000 | - | - | - | - | - | - | - | - | 417.376 |
| (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) | 974.402 | 15.655 | - | - | - | - | - | - | - | - | - | 479.743 |

## Description:








 mounts. MK93 Improvement Kits will enhance hit performance and improve Soldier interface with optical sighting systems during on the move engagement by dampening mount movement.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 7.076 | 3.000 | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 7.076 | 3.000 | - | - | - | - | - | - | - |

## Justification:

There is no FY 2024 budget request for this funding line.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

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| Exhibit P-40, Budget Line Item Justification: PB 2024 Army | Date: March 2023 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |  |
| 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat | 3015GB4000 / M2 50 Cal Machine Gun MODS |  |
| Vehicles / BSA 20: Mod of Weapons and Other Combat Veh |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: 0604601A | Other Related Program Elements: N/A |
| Line Item MDAP/MAIS Code: N/A |  |  |

Line Item MDAP/MAIS Code: N/A

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

P-1 Line Item Number / Title:
3181GZ1500 / Sniper Rifles Modifications

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

Program Elements for Code B Items: 0604601A

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ <br> Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 50.863 | 0.080 | - | - | - | - | - | 0.019 | 0.019 | 0.019 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 50.863 | 0.080 | - | - | - | - | - | 0.019 | 0.019 | 0.019 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 50.863 | 0.080 | - | - | - | - | - | 0.019 | 0.019 | 0.019 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Sniper Rifles Modifications program supports the Army Modernization priorities (Build a More Lethal Force) through enhancement of Joint Lethality y contested environments by minimizing and eliminating erosion of close combat capability relative to peer competitors in complex terrain as outlined in the National Defense Strategy (NDS). The program conducts investigative engineering studies, procure modifications or conversions of sniper weapons and related system components, Advanced Sniper Accessory Kit (ASAK) items, M151 Spotting Scope System, Tactical Tripod Kit (TTK) components, sniper optics, laser range finders, and ballistic compensating systems. Initial buys of items to support or meet operational needs and lighten sniper load. It includes the procurement of rifle scope optics, spotting scopes, an accompanying Accessory Interface Mounting kit (AIM), Improved Sniper Tripod, improved capabilities including an enhanced common reticle pattern and special tool kit.

This program also provides improved ancillary equipment such as intelligent rails, ballistic chronographs, Ballistic Weather Meter (BWM), Sniper Scope Covert Cap, Weapon Tripod Cradle, Sniper Data Board, improved Sniper Buttstock, Sniper Tool Kit, Sniper Accessory Mount, improved and/or recalibrated barrels, fire controls, muzzles with suppressors, other components, and support costs.
 Enhanced Sniper Rifle (ESR), and the M107 Semi-Automatic Long Range Sniper Rifle (LRSR), require continuous upgrades to the weapon, components, and/or ancillary equipment. Sniper upgrades seek to enhance sniper mission capability, effectiveness, and survivability by extending the sniper's influence through emerging technologies in perfecting ballistics with exacting hardware and precise calculations, reducing sniper team burden through decreased weight and enhanced ergonomics, portability, signature-reduction, faster more precise target reconnaissance, surveillance, and target acquisition (RSTA) and precision aiming with automated ballistic prediction systems. Upgrades also support sniper/spotter mission collaboration with information sharing of targets and better situational awareness.


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| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  | Date: March 2023 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 20: Mod of Weapons and Other Combat Veh | P-1 Line Ite  <br> S and Other Combat P- <br> 3181GZ150 | P-1 Line Item Number / Title: 3181GZ1500 / Sniper Rifles Modifications |
| ID Code (A=Service Ready, B=Not Service Ready): B Program Elements for Cod | Program Elements for Code B Items: 0604601A $\quad$ Other Related Program Elements: N/A |  |
| Line Item MDAP/MAIS Code: N/A |  |  |
| Justification: <br> There is no FY 2024 budget request for this funding line. |  |  |
| In accordance with Section 1815 of the FY 2008 National Defense Act, (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. |  |  |

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

## P-1 Line Item Number / Title:

3640GC0401 / M119 Modifications

## 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat

 Vehicles / BSA 20: Mod of Weapons and Other Combat Veh| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ <br> Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | 12 | 493 | - | 493 | 96 | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 396.741 | - | 2.263 | 13.097 | - | 13.097 | 7.450 | 1.258 | 1.209 | 1.210 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 396.741 | - | 2.263 | 13.097 | - | 13.097 | 7.450 | 1.258 | 1.209 | 1.210 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 396.741 | - | 2.263 | 13.097 | - | 13.097 | 7.450 | 1.258 | 1.209 | 1.210 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | 188.583 | 26.566 | - | 26.566 | 77.604 | - | - | - | Continuing | Continuing |

## Description:




 also supports the installation and retrofit of modification kits to the M119A3 Howitzer

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | 12 | 226 | - | 226 | 96 | - | - | - |
|  | Total Obligation Authority | - | 2.180 | 6.048 | - | 6.048 | 7.450 | 1.258 | 1.209 | 1.210 |
| ANG | Quantity | - | - | 267 | - | 267 | - | - | - | - |
|  | Total Obligation Authority | - | 0.083 | 7.049 | - | 7.049 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | 12 | 493 | - | 493 | 96 | - | - | - |
|  | Total Obligation Authority | - | 2.263 | 13.097 | - | 13.097 | 7.450 | 1.258 | 1.209 | 1.210 |

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

## P-1 Line Item Number / Title:

## 3640GC0401 / M119 Modifications

## Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | GC0401 / M119 Modifications (Increase Performance) |  | A |  | - 1396.741 | 1 | $12 / 2.263$ | 493 / 13.097 | - 1 | 493 / 13.097 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1396.741 | 1. | 12/2.263 | $493 / 13.097$ | 1 | 493 / 13.097 |
| Exhibits Schedule |  |  |  |  | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GC0401 / M119 Modifications (Increase Performance) |  | A |  | $96 / 7.450$ | - 11.258 | - 11.209 | - 11.210 | Continuing | Continuing |
| P-40 | Total Gross/Weapon System Cost |  |  |  | $96 / 7.450$ | - 11.258 | - 11.209 | - 11.210 | Continuing | Continuing |

*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:



 readiness.
 operating system and software.
 defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-3a, Individual Modification: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 2033A / } 02 \text { / } 20$ |  |  |  | P-1 Line Item Number / Title: 3640GC0401 / M1 19 Modifications |  |  |  |  | Modification Number / Title: GC0401 / M119 Modifications |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\text { FY } 2024$ <br> Base | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | 12 | 493 | - | 493 | 96 | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 396.741 | - | 2.263 | 13.097 | - | 13.097 | 7.450 | 1.258 | 1.209 | 1.210 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 396.741 | - | 2.263 | 13.097 | - | 13.097 | 7.450 | 1.258 | 1.209 | 1.210 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 396.741 | - | 2.263 | 13.097 | - | 13.097 | 7.450 | 1.258 | 1.209 | 1.210 | Continuing | Continuing |
| (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) | - | - | 188.583 | 26.566 | - | 26.566 | 77.604 | - | - | - | Continuing | Continuing |

## Description:

Modifications to M119A2 Howitzer:
Modification 1 (Digitization): Procurement of the Digital Fire Control System contracted separately for each major component, with various contract award dates. Application occurs in Battalion sets of 17 each over two-month periods.

Modification 2 (Recoil Capability Package): New recoil system which enhances the survivability of the M119. The recoil system upgrade consists of the recoil buffer, recuperator, and suspension modification.
Modification 3 (TADSS): Training Aids, Devices, Simulators and Simulations (TADSS) for use in training artillerymen and maintainers in fielded units as well as in classroom instruction at school houses.
Modification 4 (Power System): Procure new power supply for the M119A3 Digital Fire Control System. The modification increased system electrical power to meet system operating requirements for low temperature environments.

Modification 5 (Durability): Procurement of: 502 each lightweight more durable titanium firing platforms, 502 each Fire Control Computer (FCC) covers to protect FCC from damage and, 250 each FCC thumb sticks/mouse to allow FCCs with damaged touch screens to remain mission capable. Prior years optimized the design of the spades on the M119 howitzer to increase durability and decrease weight.

Modification 6 (Retrofit and Composite Fielding Activities): Retrofit current howitzer fleet with upgraded recoil capability package, Titanium Firing Platform, Digital Fire Control System components, Resiliency and Software Assurance Modification, Blast Over Pressure software upgrade and Software Defined Radio. Fielding of the Digital Fire Control System completed in FY 2018, while other retrofit activities continued through FY 2021.

Modification 7 (Program Management): Program management support to the M119A3 Howitzer: lifecycle management, coordination \& synchronization of field artillery solutions, technical oversight of projects, and business management functions.

Modification 8 (Software, Cyber Security) Resiliency Software Assurance Modification (RSAM): Qualify the Resiliency and Software Assurance Modification to ensure a robust GPS capability on the M119 howitzer. Apply software upgrade to the GPS GB-GRAM receiver on the M119 fleet via a Modification Work Order. Upgrade software on the FCC to more accurately account for Blast Over Pressure effects on M119 crew and send a warning when safety limits approach.

Modification 9 (Digital Fire Control Tech Refresh) Procures integration hardware, such as cables and mounting brackets for software defined radio into digital fire control of M119 platform

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| Exhibit P-3a, Individual Modification: PB 2024 Army |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20 |  |  | P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications |  |  |  |  | Modification Number / Title: GC0401 / M119 Modifications |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |
| Secondary Distribution |  | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { Total } \end{aligned}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Army | Quantity | - | 12 | 226 | - | 226 | 96 | - | - | - |
|  | Total Obligation Authority | - | 2.180 | 6.048 | - | 6.048 | 7.450 | 1.258 | 1.209 | 1.210 |
| ANG | Quantity | - | - | 267 | - | 267 | - | - | - | - |
|  | Total Obligation Authority | - | 0.083 | 7.049 | - | 7.049 | - | - | - | - |
| Total: Secondary Distribution | Quantity | - | 12 | 493 | - | 493 | 96 | $\cdot$ | $\cdot$ | $\cdot$ |
|  | Total Obligation Authority | $\cdot$ | 2.263 | 13.097 | - | 13.097 | 7.450 | 1.258 | 1.209 | 1.210 |

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 02 / 20ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title:

 3640GC0401 / M119 ModificationsDate: March 2023

## Modification Number / Title:

GC0401 / M119 Modifications

MDAP/MAIS Code:

| Models of Systems Affected: M119A3 Howitzer |  | Modification Type: Increase Performance |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Financial Plan | Qty (Each) I <br> Total Cost (\$ M) | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | Qty (Each) I Total Cost (\$ M) | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | Qty (Each) I Total Cost (\$ M) | $\begin{array}{c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 9: Digitization |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Integration Prod/lnit Spares | 502/133.497 | 1 - | 1 - | 1- | 1 - | - 1- | - 1- | - 1- | 1- | 1 | 1 - | $502 / 133.497$ |
| Logistics \& Fielding | - 116.883 | 1 - | 1 - | 1 - | 1 | 1 - | 1 - | 1 - | 1 | 1 | 1- | - /16.883 |
| Program Management | - 111.409 | 1 - | 1 - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - 111.409 |
| System Engineering | - 119.576 | - 1 - | - 1 - | - 1 - | - 1 | 1 - | 1 | - 1 - | 1 | 1 | 1 - | - $/ 19.576$ |
| Engineering Change Orders (ECO) | - /15.723 | - 1 - | 1 - | 1 | 1 | - 1 | - 1 | - 1 | - 1 | - 1 | 1 - | - /15.723 |
| Subtotal: Recurring | 502/197.088 | - 1- | - 1- | - 1- | - 1- | / - | - 1- | - 1- | - 1- | - 1- | - 1 - | 502/197.088 |
| Subtotal: Digitization | 502/197.088 | - 1- | - 1- | - 1 - | - 1- | - / - | - / - | - 1- | - / - | - $/$ | - / - | 502/197.088 |
| Modification Item 2 of 9: Recoil Capability Package |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Recoil System Upgrade | 502/47.579 | 1 - | - 1- | 1- | 1 - | 1 - | 1 - | - 1 - | - 1 - | 1 - | 1 - | 502/47.579 |
| Subtotal: Recurring | 502/47.579 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - 1 | 502/47.579 |
| Subtotal: Recoil Capability Package | $502 / 47.579$ | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1- | - 1 - | 1 | 1 | - 1 | 502/47.579 |
| Modification Item 3 of 9: Training Devices (TADSS) |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Training Devices | - 113.470 | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1 - | - 1 - | - 113.470 |
| Subtotal: Non-Recurring | - /13.470 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - /13.470 |
| Subtotal: Training Devices (TADSS) | - /13.470 | - 1- | - 1- | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - /13.470 |

Modification Item 4 of 9: Power System Management A Kits

Non-Recurring
Power System Mods
Subtotal: Non-Recurring

| $502 / 6.815$ | 1 - | 1 - | 1 | - 1 - | - 1 - | - 1- | 1 - | - 1- | - 1 - |  | 1 - | $502 / 6.815$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $502 / 6.815$ | 1 - | - / - | 1 - | - / - | - 1 | - 1 - | / | - 1 | 1 |  | / - | 502/6.815 |
| 502/6.815 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | / - |  | / - | 502/6.815 |

Modification Item 5 of 9: Durability Modification
A Kits

Exhibit P-3a, Individual Modification: PB 2024 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 02 / 20ID Code (A=Service Ready, B=Not Service Ready) : A


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| Exhibit P-3a, Individual Modification: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 2033A / } 02 \text { / } 20$ |  |  | P-1 Line Item Number / Title: 3640GC0401 / M119 Modifications |  |  |  |  |  | Modification Number / Title: GC0401 / M119 Modifications |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |
| Models of Systems Affected: M119A3 Howitzer |  | Modification Type: Increase Performance |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \\ \hline \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{array}{c\|c} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost ( } \$ \mathrm{M}) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Subtotal: Non-Recurring | - 15.266 | 1 | /2.263 | 493/13.097 | - 1 - | 493/13.097 | 96/6.150 | - 1 - | - 1 - | - 1 - | - 1 - | $589 / 26.776$ |
| Subtotal: Digital Fire Control Tech Refresh | - 15.266 | 1 | - 12.263 | 493/13.097 | - 1 - | 493/13.097 | 96/6.150 | - 1 - | - 1 - | - $/$ | - 1. | 589/26.776 |
| Subtotal: Procurement, All Modification Items | 2,008/396.741 | 1 - 1- | - 12.263 | 493/13.097 | - 1. | 493/13.097 | 96/7.450 | - 11.258 | - 11.209 | - 11.210 | Continuing | Continuing |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - $1 \cdot$ | - 1 - | - 1. | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1. |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 396.741 | - | 2.263 | 13.097 | - | 13.097 | 7.450 | 1.258 | 1.209 | 1.210 | Continuing | Continuing |

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army
Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat
Vehicles / BSA 20: Mod of Weapons and Other Combat Veh

## P-1 Line Item Number / Title:

7054G02100 / Mortar Modification

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

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2024$ Total | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 138.180 | - | - | 0.423 | - | 0.423 | - | - | - | - | - | 138.603 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 138.180 | - | - | 0.423 | - | 0.423 | - | - | - | - | - | 138.603 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 138.180 | - | - | 0.423 | - | 0.423 | - | - | - | - | - | 138.603 |
| (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:

BLI 7054G02100 / Mortar Modification is a new start in FY 2024.



 technical issues related to weapon system safety.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 0.423 | - | 0.423 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 0.423 | - | 0.423 | - | - | - | - |

## Justification:



 Combat Teams (ABCTs), as well as the Special Forces Groups and Ranger Regiments.

G02100 / Mortar Modification is a new start in FY 2024.

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

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

Appropriation / Budget Activity / Budget Sub Activity:
2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment \& Facilities
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
1862 GL 3200 I Items Less Than $\$ 5.0 \mathrm{~m}$ (WOCV-WTCV)

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 148.774 | 13.826 | 2.138 | 1.148 | - | 1.148 | 1.055 | 2.237 | 2.241 | 2.243 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 148.774 | 13.826 | 2.138 | 1.148 | - | 1.148 | 1.055 | 2.237 | 2.241 | 2.243 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 148.774 | 13.826 | 2.138 | 1.148 | - | 1.148 | 1.055 | 2.237 | 2.241 | 2.243 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:




 (BII), M500 Mossberg Shotguns, MP5KA and APC9K Submachine Guns to include magazines, clamps, holsters, slings, lanyards, spare parts and cleaning kits.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2024$ Total | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 13.826 | 2.138 | 1.148 | - | 1.148 | 1.055 | 2.237 | 2.241 | 2.243 |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 13.826 | 2.138 | 1.148 | - | 1.148 | 1.055 | 2.237 | 2.241 | 2.243 |

## Justification:






 Unit (AMU) as needed

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| Exhibit P-40, Budget Line Item Justification: PB 2024 Army |  |  |  | Date: March 2023 |
| :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 2033A: Procurement of W\&TCV, Army / BA 02: Weapons Vehicles / BSA 30: Support Equipment \& Facilities | and Other Combat | P-1 Line Item Number / Title: <br> 1862GL3200 / Items Less Than $\$ 5.0 \mathrm{~m}$ (WOCV-WTCV) |  |  |
| 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 |  |  |  |  |
| In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. |  |  |  |  | defense missions, domestic emergency responses, and providing military support to civil authorities.

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment \& Facilities
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
3270GC0050 / Production Base Support (WOCV-WTCV)

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


| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 399.586 | 118.504 | 225.220 | 115.024 | - | 115.024 | 119.237 | 95.788 | 75.874 | 75.948 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 399.586 | 118.504 | 225.220 | 115.024 | - | 115.024 | 119.237 | 95.788 | 75.874 | 75.948 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 399.586 | 118.504 | 225.220 | 115.024 | - | 115.024 | 119.237 | 95.788 | 75.874 | 75.948 | 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 Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:


 Army.
 and Technology Center (JMTC) at Rock Island Arsenal (RIA), IL. This program also provides funding for the Arsenal 5-Year Plan(s) for sustainment and modernization.



 NM, and Yuma Test Center (YTC), Yuma Proving Ground, AZ.

| Secondary Distribution |  | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 118.504 | 225.220 | 115.024 | - | 115.024 | 119.237 | 95.788 | 75.874 | 75.948 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 118.504 | 225.220 | 115.024 | - | 115.024 | 119.237 | 95.788 | 75.874 | 75.948 |

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment \& Facilities
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: N/A
Line Item MDAP/MAIS Code: N/A

| Project Schedule |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \\ & \hline \end{aligned}$ | Project | Total Cost (\$ M) | Total Cost (\$ M) | Total Cost (\$ M) | Total Cost (\$ M) | Total Cost (\$ M) | Total Cost (\$ M) |
| (Uncategorized) |  | - | 118.504 | 225.220 | 115.024 | - | 115.024 |
|  | BAE Production Facility | - | 27.500 | - | $\bullet$ | - | - |
| P-25 | BAE-001 - BAE York Facilitation to increase and accelerate Armored Multi Purpose Vehicle (AMPV) production | - | 27.500 | - | - | - | - |
|  | Watervliet Arsenal (WVA) | - | 25.662 | 221.539 | 32.680 | - | 32.680 |
| P-25 | WVA0001-Mortar Production Modernization | - | 10.662 | - | - | - | - |
| P-25 | WVA0005- New Paint Booth | - | 15.000 | - | - | - | - |
| P-25 | WVA0008 - Radial Forge Replacement | - | - | 65.000 | - | - | - |
| P-25 | WVA0009 - Electro-Chemical Machining System for Cannon Rifling | - | - | 10.000 | - | - | - |
| P-25 | WVA0010-Hex-Trivalent Process Verification | - | - | 3.850 | - | - | - |
| P-25 | WVA0011-Rifled WaterJet and Verification | - | - | 10.000 | - | - | - |
| P-25 | WVA0012-ECM Facility Transition (Rifled Tubes) | - | - | 4.500 | - | - | - |
| P-25 | WVA0013-ECM Tooling and Profile Verification | - | - | 4.200 | - | - | - |
| P-25 | WVA0014 - Convert disused Hexavalent Chrome plating facility to Trivalent Chrome | - | - | 7.000 | - | - | - |
| P-25 | WVA0015-Chrome Tooling (Anodes \& Cathodes) | - | - | 3.000 | - | - | - |
| P-25 | WVA0016- Rifled Cold-Spray System (Spindle Lathe, Facilities, System) | - | - | 14.250 | - | - | - |
| P-25 | WVA0017-Anodize Line (Reconstitute in-house process) | - | - | 2.000 | - | - | - |
| P-25 | WVA0018-Cannon Production High Voltage Substation Modernization | - | - | 3.000 | - | - | - |
| P-25 | WVA0019- Inspection Gauges - XM35 | - | - | 2.000 | - | - | - |
| P-25 | WVA0020-Cannon Billet Pre-Heat Induction Furnace System | - | - | 7.000 | - | - | - |
| P-25 | WVA0021-Guided Bore System for ERCA Length Cannon | - | - | 10.000 | - | - | - |
| P-25 | WVA0022-External Cylindrical Grinder | - | - | 3.400 | - | - | - |
| P-25 | WVA0023 - Overhead Cannon Transport Crane Modernization (Buildings 20, 35, 220, and 135) | - | - | 17.000 | - | - | - |
| P-25 | WVA0024-ERCA Vertical Turning Lathe Set (Breech Manufacture) | - | - | 6.800 | - | - | - |
| P-25 | WVA0025-Cannon Production Compressed Air Distribution Modernization | - | - | 5.000 | - | - | - |
| P-25 | WVA0026 - Cannon Production High Voltage Power Distribution Modernization | - | - | 10.000 | - | - | - |
| P-25 | WVA0027- WVA Miscellaneous Small Projects | - | - | 4.268 | 2.680 | - | 2.680 |
| P-25 | WVA0035-Horizontal Milling Center | - | - | 1.000 | - | - | - |
| P-25 | WVA0037-Excess Equipment, Floor Repairs, Relocate Equipment | - | - | 0.971 | - | - | - |
| P-25 | WVA0038- Filament Winder 1/2 (120mm Bore Evacuator) | - | - | 1.000 | - | - | - |
| P-25 | WVA0039- Filament Winder $2 / 2$ (120mm Bore Evacuator) | - | - | 1.000 | - | - | - |
| P-25 | WVA0040-2nd M256 Cold Spray System | - | - | 4.400 | - | - | - |
| P-25 | WVA0041-ID Grinder 1/2 | - | - | 2.850 | - | - | - |
| P-25 | WVA0042-ID Grinder 2/2 | - | - | 2.850 | - | - | - |
| P-25 | WVA0043 - Hone 1/2 | - | - | 0.900 | - | - | - |

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

## P-1 Line Item Number / Title:

3270GC0050 / Production Base Support (WOCV-WTCV)

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment \& Facilities
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: N/A
Line Item MDAP/MAIS Code: N/A

|  | Project Schedule | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Project | $\begin{gathered} \text { Total Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Total Cost } \\ (\$ M) \end{gathered}$ | $\begin{gathered} \hline \text { Total Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Total Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Total Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Total Cost } \\ (\$ M) \\ \hline \end{gathered}$ |
| P-25 | WVA0044 - Hone 212 | - | - | 0.900 | - | - | - |
| P-25 | WVA0045-M256 Waterjet | - | - | 3.200 | 4.200 | - | 4.200 |
| P-25 | WVA0046-M256 Waterjet Foundation | - | - | 1.000 | - | - | - |
| P-25 | WVA0047-Gymnasticator | - | - | 2.200 | - | - | - |
| P-25 | WVA0049 - Horizontal Machining Center | - | - | 1.000 | - | - | - |
| P-25 | WVA0050 - Hollow Spindle Lathe | - | - | 6.000 | - | - | - |
| P-25 | WVA0051 - Two (2) Surface Grinders | - | - | - | 3.200 | - | 3.200 |
| P-25 | WVA0052 - Tube Runout Table | - | - | - | 1.200 | - | 1.200 |
| P-25 | WVA0053 - Wire Electric Discharge Machine | - | - | - | 1.400 | - | 1.400 |
| P-25 | WVA0054-Quality Control Inspection Equipment | - | - | - | 5.400 | - | 5.400 |
| P-25 | WVA0055-Tri-Chrome Conversion | - | - | - | 9.400 | - | 9.400 |
| P-25 | WVA0056-Cannon Preform Advanced Material Purchase | - | - | - | 1.200 | - | 1.200 |
| P-25 | WVA0057- Minor Plating Reconstitution | - | - | - | 4.000 | - | 4.000 |
|  | Joint Systems Manufacturing Center (JSMC) - Lima | - | 46.692 | - | 60.306 | - | 60.306 |
| P-25 | JSMC001- JSMC Miscellaneous Small Projects | - | 7.485 | - | 16.263 | - | 16.263 |
| P-25 | JSMC008-Remove TM004 and Install New Machine at TM005 Location | - | 6.500 | - | - | - | - |
| P-25 | JSMC009 - Replace CE92 \& CE96 Vertical Machining Centers (VMCs) | - | 2.500 | - | - | - | - |
| P-25 | JSMC010 - Remove TR76 and TR77 and Replace with (1) Vertical Machining Center (VMC) | - | 1.750 | - | - | - | - |
| P-25 | JSMC011- Replace SB13 with Robotic Blast Booth | - | 5.500 | - | - | - | - |
| P-25 | JSMC012-RFID Asset Tracking | - | 1.653 | - | - | - | - |
| P-25 | JSMC013- Robotic Machine Tending Systems | - | 1.000 | - | - | - | - |
| P-25 | JSMC014-Repair/Refurbish/Replace Locomotive(s) | - | 2.381 | - | - | - | - |
| P-25 | JSMC015-Autonomous Material Handling | - | 2.000 | - | - | - | - |
| P-25 | JSMC016-Build 351 - Rehab South End Office Complex | - | 2.000 | - | - | - | - |
| P-25 | JSMC017- Water Tower Piping Renovation | - | 7.540 | - | - | - | - |
| P-25 | JSMC018- Replace Arch Beam Cranes - Safety Recall | - | 4.121 | - | - | - | - |
| P-25 | JSMC020-Building 281 Replace Drag Line | - | 1.102 | - | - | - | - |
| P-25 | JSMC021-Replace Cooling Tower in Power House | - | 1.160 | - | - | - | - |
| P-25 | JSMC022-Rehabilitate Hardstand Pavement | - | - | - | 1.061 | - | 1.061 |
| P-25 | JSMC023-B147 Replace Drag Line | - | - | - | 1.180 | - | 1.180 |
| P-25 | JSMC024-Replace Fire Sprinkler System Components | - | - | - | 3.609 | - | 3.609 |
| P-25 | JSMC025- Structural Repair of B142 | - | - | - | 1.785 | - | 1.785 |
| P-25 | JSMC026-480V Substation Work | - | - | - | 1.817 | - | 1.817 |
| P-25 | JSMC027- Upgrade Cranes CO0112 and CO0431 Turret Line Station 0 | - | - | - | 1.850 | - | 1.850 |

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

## Appropriation / Budget Activity / Budget Sub Activity:

2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat Vehicles / BSA 30: Support Equipment \& Facilities
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: N/A
Line Item MDAP/MAIS Code: N/A

|  | Project Schedule | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Project | $\begin{gathered} \text { Total Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Total Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Total Cost (\$M) | $\begin{gathered} \text { Total Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Total Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Total Cost } \\ (\$ M) \\ \hline \end{gathered}$ |
| P-25 | JSMC028 - Replacement of Government Owned Mobile Equipment (Forklifts, Walk behind, Pallet Jack) | - | - | - | 1.500 | - | 1.500 |
| P-25 | JSMC030-B147 Shaw Box Overhead Cranes | - | - | - | 5.000 | - | 5.000 |
| P-25 | JSMC031- Building 351 Outside Utilities Replacement | - | - | - | 6.857 | - | 6.857 |
| P-25 | JSMC032-Replace (2) Turret Machines (TM) TM006/TM007 | - | - | - | 7.909 | - | 7.909 |
| P-25 | JSMC033- Building 147 South Side Underground Infrastructure Improvement | - | - | - | 8.570 | - | 8.570 |
| P-25 | JSMC035-Electronic Fabrication \& Assembly Inspection | - | - | - | 0.952 | - | 0.952 |
| P-25 | JSMC036-Electronic Final Inspection Records | - | - | - | 0.976 | - | 0.976 |
| P-25 | JSMC037-Level/Alignment of Hull Machines (HM) HM0035 \& HM0036 | - | - | - | 0.977 | - | 0.977 |
|  | Rock Island Arsenal - Joint Manufacturing and Technology Center (RIA-JTMC) | - | 14.982 | - | 18.222 | - | 18.222 |
| P-25 | JMTC002- Thick Plate Machining Line Equipment | - | 10.169 | - | - | - | - |
| P-25 | JMTC003 - Tool Room Modernization | - | 0.938 | - | - | - | - |
| P-25 | JMTC004 - CNC Cutting Table and Spreader | - | 0.375 | - | - | - | - |
| P-25 | JMTC005- Bridge Mill (Thick plate machining line) | - | 3.500 | - | - | - | - |
| P-25 | JMTC006- JMTC Miscellaneous Small Projects | - | - | - | 1.750 | - | 1.750 |
| P-25 | JMTC007-Flexible Plating Line | - | - | - | 1.236 | - | 1.236 |
| P-25 | JMTC008 - Sand Handling System | - | - | - | 1.236 | - | 1.236 |
| P-25 | JMTC009 - Upgrade Existing Paint Booths | - | - | - | 4.500 | - | 4.500 |
| P-25 | JMTC010 - Sand Printing Package | - | - | - | 2.000 | - | 2.000 |
| P-25 | JMTC011- Large, Multi-Axis Machining | - | - | - | 7.500 | - | 7.500 |
|  | Army Test and Evaluation Command (ATEC) Facilities | - | 3.668 | 3.681 | 3.816 | - | 3.816 |
| P-25 | ATEC - ATEC Facilities | - | 3.668 | 3.681 | 3.816 | - | 3.816 |
| Total Gross/Weapon System Cost |  | - | 118.504 | 225.220 | 115.024 | - | 115.024 |




 Description, Contractor, Maintenance/Recurring/Environmental/Other costs, etc.).

## Justification:



 order to implement risk mitigation strategies that ensure production capacities meet required aggregate demand.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 02: Weapons and Other Combat

 Vehicles / BSA 30: Support Equipment \& Facilities

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

The activities of the Army Production Base Support are as follows:
Production Base Support activities:
 equipment such as surface grinders, wire electric discharge, quality control inspection equipment and conversion from hexavalent chromium plating to trivalent chromium plating.

 JSMC.



 upgrade of weld capabilities.

Army Test and Evaluation Command (ATEC): $\$ 3.816$ million supports:



 autonomous vehicles.


 mission requirements.
 accuracy and efficiency of ballistics data acquisition.


## Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 funding supports the Armored Multi Purpose Vehicle industrial base at the BAE Systems Contractor-Owned Contractor-Operated facilities in York, PA in support of the acceleration in production capacity of the AMPV vehicles.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 10.662$ million supports construction, as well as, procurement and installation of equipment to continue modernization of Building 125, originally constructed in the early 1900s, into a dedicated mortar factory at Watervliet Arsenal (WVA), NY. This project will provide for a focused factory concept with a consolidated manufacturing line and dedicated team to support the production of all mortar systems. This project will reduce manufacturing lead time by at least $50 \%$ and provided increased throughput by $200 \%-400 \%$.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: New Paint Booth |  |  |  |  |  | Project Number: WVA0005 |  | Project Category: |  |  |  |  |
| End Item Supported Model: |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): I |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{aligned} & \text { FY } 2024 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { Total } \end{aligned}$ | $\begin{aligned} & \text { Facility Name: Watervliet Arsenal (WVA) } \\ & \text { Facility Location: Watervliet, NY } \\ & \text { Facility Type (GOGO, GOCO, COCO): GOGO } \end{aligned}$ |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | - | - | - | Principal Milestones Month \& Year <br> Concept Design Complete:  <br> Final Design Complete:  <br> Initial/Final Project Award:  <br> Construction Complete:  <br> Equipment Installation Complete:  <br> Prove Out Begins:  <br> Prove Out Complete:  |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | 15.000 | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost 15.000 |  |  |  |  |  | Project Number | Title |  | Value (\$M) | Facing | Start Date | Compl Date |
|  |  |  |  |  |  | FY \& Appn |  |  |  |  |  |

## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 15.000$ million support procurement of a new Paint Booth at Watervliet Arsenal (WVA), New York. The current booth is inefficient for cannon tubes and major components; the present booth can only accomodate up to (4) Extended Range Cannon Artillery (ERCA) cannon tubes or a larger number of smaller items. New Paint Booth technologies will include robotics and climate control which will enhance throughput, apply coatings to micron thickness and reduce rework. This project will also benefit other programs like Abrams and Mortars, which are painted at WVA.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Radial Forge Replacement |  |  |  |  |  | Project Number: WVA0008 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Cannon Production |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): I |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{aligned} & \text { FY } 2024 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { Total } \end{aligned}$ | Facility Name: Watervliet Arsenal (WVA) Facility Location: Watervliet, NY Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | 14.000 | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | 25.000 | - | - | - | Principal Milestones Month \& Year <br> Concept Design Complete:  <br> Final Design Complete:  <br> Initial/Final Project Award:  <br> Construction Complete:  <br> Equipment Installation Complete:  <br> Prove Out Begins:  <br> Prove Out Complete:  |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | 7.000 | - | - | - |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | 6.000 | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | 8.000 | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | 5.000 | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost - 65.000 |  |  |  |  |  | Project Number | Title |  | Value (\$M) | Facing | Start Date | Compl Date |
|  |  |  |  |  |  | FY \& Appn |  |  |  |  |  |

## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 65.000$ million supports the procurement and installation of replacement Radial Forge for use at Watervliet Arsenal, NY. The existing Radial Forge was installed and has been in operation since 1974. Across the five decades of operation, several refurbishments and modifications the system is reaching end of life. Component failures are increasing, and the Watervliet Arsenal must often manufacture replacement parts because they are not available elsewhere. The existing forge requires a two step procedure to manufacture Extended Range Cannon Artillery (ERCA) length and longer cannons. The Replacement Radial Forge supports manufacture of cannons exceeding the length of current ERCA in a single manufacturing step. The new system applies greater force during forging, allowing the forge to draw and shape a Cannon Preform Billet into a Cannon Rough Shape in less than $80 \%$ of the time required by the current system. The new systems incorporates additional automation and machine control to the forging process, producing more conformal rough shapes that reduce the amount of subsequent time and machining steps needed to produce a cannon.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 10.000$ million supports the procurement and installation of an Electro Chemical Machining systems to be used for cannon rifling. Electro Chemical Machining is a highly automated process, using electrically controlled fluid removal of metal to surface finish quality. Electro Chemical Machining is mature commercial manufacturing technology being adapted to improve the accuracy and reduce the time needed to rifle cannon tubes.Electro Chemical Machining uses electrically conductive fluids passing under moderate pressures with easily fabricated anodes to precisely and rapidly remove metal molecules from the inside of the cannon barrel. This systems will be able to rifle ERCA length and specialty steel barrels in less than $2 / 3$ the time required using the current broaching technique. Electro Chemical Machining costs per barrel are projected to be less than half of the current broach method, requiring less time to rifle cannon barrels with greater precision.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 3.850$ million supports production process verification of the use of Trivalent Chromium plating for cannon bores and cannon minor parts. Trivalent Chromium, a more environment and occupational health safe material is replacing the use of the more hazardous Hexavalent Chromium plating process used for over 5 decades. This project provides materials and effort required to verify plating processes and demonstrate performance of Trivalent Chromium on plated surfaces. This project builds upon other efforts, including the repair of the Watervliet Arsenal chrome plating facility and conversion of the disused commercial plating facility back to Arsenal use. This project introduces and verifies new processes to qualify Trivalent Chromium for cannon bore and minor parts plating.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 10.000$ million supports procurement and installation of a complete Waterjet System to be used for the production of Rifled Cannons. The Waterjet is being procured to serve as a combined rifling and surface finishing tool. Waterjet rifling uses high pressure slurry to precisely cut groves into the cannon bore steel. Waterjet surface finishing provides precise material removal to provide required inner diameter dimensions and required surface smoothness. Waterjet finishing is necessary to allow the use of Cold-Spray coatings in rifled cannon barrels. Waterjet rifling introduces a new capability to Watervliet Arsenal (WVA) to replace some traditional cannon production processes and complement other new technologies such as Electro Chemical Machining and Cold-Spray applied coatings.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 4.500$ million supports the conversion of the prototype Electro Chemical Machining (ECM) System to production capability for rifled cannon up to Extended Range Cannon Artillery (ERCA) tube length. The Electro Chemical Machining (ECM) System provides precise removal of metal to rifle and finish cannon bores. This system replaces the traditional cannon rifling process that pulls broaches through the tube to cut and finish lands and grooves. Electro Chemical Machining (ECM) reduces mechanical stresses broaching introduces into cannon tubes. Electro Chemical Machining (ECM) will be the primary method to rifle Extended Range Cannon Artillery (ERCA) cannon tubes and is expected to replace broach rifling for large cannon. This machine compliments new capability to Watervliet Arsenal (WVA).


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 4.200$ million supports production Electro Chemical Machining (ECM) tooling procurement and process verification for 155 mm cannon including Extended Range Cannon Artillery (ERCA). This project procures the production required Electro Chemical Machining (ECM) heads, guides, and other cannon specific items needed to perform rifling for M777, M109A7, and XM1299 ERCA cannons. This project verifies that the Electro Chemical Machining (ECM) processes used to rifle each cannon provide required inner diameter, surface finish, and required service performance. This project compliments other cannon production modernization investments at Watervliet Arsenal (WVA).

Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army
Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2033A / 02 / 30
Project Title: Convert disused Hexavalent Chrome plating facility to Trivalent Chrome

P-1 Line Item Number / Title:
3270GC0050 / Production Base Support (WOCV-WTCV)

End Item Supported Model: ERCA and other Cannon Production

| Project Number: | Project Category: |
| :--- | :--- |
| WVA0014 |  |

WVA0014

| Cost Elements <br> $(\$$ in Millions) | FY 2022 |
| :--- | ---: | ---: | ---: | ---: | ---: | FY 2023 $\left.$| FY 2024 |
| :---: |
| Base | | FY 2024 |
| :---: |
| OCO | | FY 2024 |
| :---: |
| Total | \right\rvert\,

## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 7.000$ million supports the conversion of not currently-in-use Chrome plating tanks to operational condition and filling with Trivalent Chrome (CrIL3). This set of plating tanks will be used to qualify Trivalent Chrome for Extended Range Cannon Artillery (ERCA) cannon bore plating at Watervliet Arsenal, NY. This conversion is a risk reduction measure being performed in conjunction with the larger U.S. Army Tank Automotive and Armaments Command (TACOM) sponsored repair of the Watervliet cannon bore Chrome Plating facility. Army directed conversion to Trivalent chrome requires the development of new tooling and plating techniques to achieve equal-to or better-than performance compared to existing Hexavalent Chrome (Cr6). The conversion of these tanks allows full length plating of Extended Range Cannon Artillery (ERCA) length cannon bores with Trivalent chrome while the repaired plating facility continues using Hexavalent Chrome. Multiple cannon tubes will be coated and subjected to live fire and laboratory testing as part of this effort. This plating facility may have future utility in the production of other howitzers, tank cannons, and weapons.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 3.000$ million supports procurement and configuration costs to procure new anodes, cathodes, and associated tooling required to chrome plate cannon bores. This equipment is needed to provide optimum plating performance when the Chrome Plating facility is replaced.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 14.250$ million supports procurement and installation of a Cold-Spray production system for use in bore coating rifled cannon. The Cold-Spray system is used to apply a multi-layer coating to the cannon bore in lieu of chromium plating. The coating is more resistant to wear compared to chromium plating, increasing cannon operation life. The Cold-Spray system will support coating of rifled cannons up to Extended Range Cannon Artillery (ERCA) length. This project procures the Cold-Spray System, supporting spindle lathes, and the tooling required to coat the cannon lengths now or planned for production. The projects funds verification of the production coating processes and durability when the cannon is fired. The rifled cannon Cold-Spray system introduces a new capability to Watervliet Arsenal (WVA), complimenting other cannon production modernization projects..


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 2.000$ million supports the procurement and installation of Anodization equipment at Watervliet Arsenal (WVA) New York. This system will allow the Arsenal to anodize metal parts to provide corrosion and wear resistance. Bringing this capability into WVA will increase cannon production rates by eliminating the delays caused by long lead times at outside vendors.


## Narrative Explanation:

This is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 3.000$ million supports the procurement and installation of a High Voltage Substation system to convert electric grid power for cannon production at Watervliet Arsenal, NY. This system replaces obsolete equipment with more automated and reliable power conversion to support cannon production. The new substation will provide more reliable and consistent power conversion needed by modern production equipment being procured and installed. This system is scaled to support production of current and planned extended range artillery cannons, howitzers, tank cannons, and other weapons.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 2.000$ million supports the inspection gauges for XM35 components. The equipment replaces obsolete equipment and supports newer metrology technologies.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 7.000$ million supports the procurement and installation of a set of 5 automated Electric Induction Furnaces to preheat cannon steel billets prior to shaping in the Radial Forge. This set of furnaces will replace the natural gas powered furnace currently in use at Watervliet Arsenal, NY. These Induction Furnaces will reduce energy demand and waste heat generated during cannon billet preheating and reduce combustion gas emissions on the arsenal. The furnaces will more rapidly heat the billets and reduce exposure to contaminates, better preserving the material properties of the Extended Range Cannon Artillery (ERCA) cannon steel. The induction furnaces will be used in the production of other howitzers, tank cannons, and weapons.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 10.000$ million supports the procurement an automated guided bore cutting system scaled to support Extended Range Cannon Artillery (ERCA) length cannon production at Watervliet Arsenal, NY. This equipment is required to precisely machine the inner bore of the cannon prior to rifling and coating. This system is scaled to support production of the ERCA cannons. The system may have utility in the production of other howitzers, tank cannons, and weapons.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 3.400$ million supports the procurement and installation of an automated external cylindrical grinder with sufficient bed length to rough and finish the outside surfaces of cannons and other large cylindrical parts. This automated system supports production of longer cannon tubes in production and development, replacing obsolete and less capable equipment.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Overhead Cannon Transport Crane Modernization (Buildings 20, 35, 220, and 135) |  |  |  |  |  | Project Number: WVA0023 |  | Project Category: |  |  |  |  |
| End Item Supported Model: ERCA and other Cannon Production |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \\ \hline \end{gathered}$ | FY 2024 Total | Facility Name: Watervliet Arsenal (WVA) Facility Location: Watervliet, NY Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | 10.000 | - | - | - | Principal Milestones Month \& Year <br> Concept Design Complete:  <br> Final Design Complete:  <br> Initial/Final Project Award:  <br> Construction Complete:  <br> Equipment Installation Complete:  <br> Prove Out Begins:  <br> Prove Out Complete:  |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | 5.000 | - | - | - |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | 2.000 | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost | - | 17.000 | - | - | - | Project Number | Title | FY \& Appn | Value | Facing | Start Date | Compl Date |

## Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of $\$ 17.000$ million supports the procurement and installation of modern control systems in overhead cranes in buildings $20,35,110$, and 135 , which are used in cannon production at Watervliet Arsenal, NY. The new control equipment is required to provide higher reliability in crane operation and to improve precision in positioning of overhead cranes used to transport cannons through the production lines. Improved crane operation will have utility in the production of other howitzers, tank cannons, and weapons.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 6.800$ million supports the procurement and installation of a modern Vertical Turning Lathe Set to be used for Extended Range Cannon Artillery (ERCA) cannon production at Watervliet Arsenal, NY. This equipment is required to perform ERCA cannon breech and other machining tasks that cannot be performed on 5 axis milling centers. This set is scaled to support production for current and planned extended range artillery cannons, howitzers, tank cannons, and other weapons.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 5.000$ million supports the procurement and installation of a modern compressed air distribution system used for cannon production at Watervliet Arsenal, NY. This equipment replaces obsolete equipment with modern and more highly automated distribution of compressed air used for equipment operation, cleaning, and other purposes. This compressed air system is scaled to support production for current and planned extended range artillery cannons, howitzers, tank cannons, and other weapons.

| Exhibit P-25, Production Sup | and I | strial | lities | Analy | PB | Army |  |  | Date: M | 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activ 2033A / 02 / 30 | / Budg | Sub Activ |  |  |  | P-1 Line <br> 3270GC | mber <br> oduct | le: <br> Base Support | OCV- |  |  |  |
| Project Title: Cannon Product | High V | ge Powe | Distribu | Moder | zation | Project WVA002 |  | Project Categ |  |  |  |  |
| End Item Supported Model: | A and | er Cann | Produc |  |  |  |  | Annual Capa | y Be | / After | 8-5): / |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ | Facility N <br> Facility L |  | (WVA) |  |  |  |  |
| A. Construction Cost | - | - | - | - | - | Facility T | GOC | O): GOGO |  |  |  |  |
| B. Equipment Cost | - | 7.000 | - | - | - | Principal |  |  |  | nth \& Y |  |  |
| C. Equipment Installation Cost | - | 3.000 | - | - | - | Concept D | ete: |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - | Final Desig |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - | Constructio |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - | Equipment | Comp |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - | Prove Out Prove Out |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - |  |  | Related | jects |  |  |  |
| Total Project Cost | - | 10.000 | - | - | - | Project |  |  |  |  |  |  |
|  |  |  |  |  |  | Number | Title | FY \& Appn | $\begin{aligned} & \text { Value } \\ & (\$ M) \end{aligned}$ | Facing | Start Date | Date |

## Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of $\$ 10.000$ million supports the procurement and installation of high voltage power distribution lines for cannon production manufacturing systems at Watervliet Arsenal, NY. This high voltage power distribution network replaces obsolete equipment to provide power required by manufacturing systems being installed to modernize cannon production. This power distribution network is scaled to support production of current and planned extended range artillery cannons, howitzers, tank cannons, and other weapons.


## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 2.480$ million support the Production Process and Industrial Base by focusing on maintaining, improving, optimizing, and modernizing the manufacturing facilities located at Watervliet Arsenal (WVA), New York. These projects include but are not limited to: Engineering Design for FY 2025 PBS projects and project support contracts.

FY 2024 Base procurement dollars in the amount of $\$ 0.200$ million also support Self Propelled Howitzer System Portable RT Imaging Equipment: Procurement, setup, and training for portable 200 kilovolt (kV) X-ray Imaging equipment to support ongoing Extended Range Cannon Artillery Cab manufacturing efforts.

FY 2023 Base procurement dollars in the amount of $\$ 4.268$ million supported miscellaneous small projects at Watervliet Arsenal (WVA) which to included but were not limited to:
-FY 2023 Procurement of a small pit-type tempering furnace for use in treatment of small parts up to cannon breech and breech blocks.
-FY 2023 Procurement of an automated slant bed lathe scaled to fit up to ERCA length cannon.
-FY 2023 Procurement of a more efficient heat treatment furnace used to produce piece parts.
-FY 2023 Procurement of a more efficient endothermic generator to be used with the minor heat treatment furnace.
-FY 2023 Procurement of routine small projects to support facility modernization and overall facility improvements.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Horizontal Milling Center |  |  |  |  |  | Project Number: Project Category: <br> WVA0035  |  |  |  |  |  |  |
| End Item Supported Model: Majors/Minors |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | FY 2024 Total | Facility Name: Watervliet Arsenal (WVA) <br> Facility Location: Watervliet, NY <br> Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | 0.500 | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | 0.450 | - | - | - | Principal Milestones <br> Concept Design Complete: <br> Final Design Complete: <br> Initial/Final Project Award: <br> Construction Complete: <br> Equipment Installation Complete: <br> Prove Out Begins: <br> Prove Out Complete: |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | 0.050 | - | - | - |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost - 1.000  <br>     |  |  |  |  |  | Project Number | Title |  | Value (\$M) | Facing | Start Date | Compl Date |
|  |  |  |  |  |  | FY \& Appn |  |  |  |  |  |

## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 1.000$ million supports the procurement and installation of horizontal milling center. The machine replaces antiquated, worn equipment with modern, reliable machinery with increase capacity.


## Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2023 Base procurement dollars in the amount of $\$ 0.971$ million supports the removal of excess equipment, floor repairs and relocating beneficial Watervliet Arsenal (WVA) equipment. It is necessary to remove obsolete equipment by making room and prepping locations for new equipment arriving at WVA.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 1.000$ million supports the replacement of filament winders used for M120 bore evacuators. This system replaces obsolete equipment and will prevent single point of failures in the manufacturing process.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 1.000$ million supports the replacement of filament winders used for M120 bore evacuators. This system replaces obsolete equipment and will prevent single point of failures in the manufacturing process


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 4.400$ million supports procurement and installation of second cold spray system to eliminate a single point of failure and increase capacity for the cold spray technology currently being developed. This machine introduces additional capability for Watervliet Arsenal (WVA) and supports an alternate technology to chrome.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 2.850$ million supports procurement and installation of ID Grinder to eliminate a single point of failure and increase capacity for the cold spray technology currently being developed. This machine introduces additional capability for Watervliet Arsenal (WVA) and supports an alternate technology to chrome.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 2.850$ million supports procurement and installation of ID Grinder to eliminate a single point of failure and increase capacity for the cold spray technology currently being developed. This machine introduces additional capability for Watervliet Arsenal (WVA) and supports an alternate technology to chrome.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 0.900$ million supports procurement and installation of Hone to eliminate a single point of failure and increase capacity for the cold spray technology currently being developed. This machine introduces additional capability for Watervliet Arsenal (WVA) and supports an alternate technology to chrome.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 0.900$ million supports procurement and installation of Hone to eliminate a single point of failure and increase capacity for the cold spray technology currently being developed. This machine introduces additional capability for Watervliet Arsenal (WVA) and supports an alternate technology to chrome.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: M256 Waterjet |  |  |  |  |  | Project Number: WVA0045 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Cannon Production |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ | Facility Name: Watervliet Arsenal (WVA) <br> Facility Location: Watervliet, NY <br> Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | 1.000 | 1.000 | - | 1.000 |  |  |  |  |  |  |  |
| B. Equipment Cost | - | 2.000 | 3.000 | - | 3.000 | Principal Milestones <br> Concept Design Complete: <br> Final Design Complete: <br> Initial/Final Project Award: <br> Construction Complete: <br> Equipment Installation Complete: <br> Prove Out Begins: <br> Prove Out Complete: |  |  | Month \& Year |  |  |  |
| C. Equipment Installation Cost | - | 0.100 | 0.100 | - | 0.100 |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | 0.100 | 0.100 | - | 0.100 |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - |  |  | Related | jects |  |  |  |
| Total Project Cost | - | 3.200 | 4.200 | - | 4.200 | Project |  |  |  |  |  | Compl |
|  |  |  |  |  |  | Number | Title | FY \& Appn | $\begin{aligned} & \text { Value } \\ & (\$ M) \end{aligned}$ | Facing | Start Date | Date |

## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 4.200$ million supports the procurement and installation of a second Waterjet System to support cannon production located at Watervliet Arsenal (WVA), New York. The Waterjet is used to clean cannon bores and as a surface finishing tool. Advanced materials have proven to offer an alternative to the use hexavalent chromium in the Organic Industrial Base. Waterjet System attributes: Ability to remove deposited materials in the event of defect during manufacturing. Decreases honing and grinding operations and increases production capacity. This machine introduces a new capability and expands current manufacturing options at WVA.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 1.000$ million supports procurement and installation of a second Waterjet System foundation to support cold spray production. The Waterjet is used to clean coatings from cannon bores and as a surface finishing tool. The Tantalum cold spray system uses hypersonic velocity air jets to deposit Tantalum onto the cannon bore. Tantalum has proven to be more erosion resistant than Chrome to protect and extend the life of cannon barrels. Waterjet System attributes: Stripping process of Tantalum (cold spray) in the event there is an issue with coating. Decreases honing and grinding operations and increases production capacity. This machine introduces a new capability to Watervliet Arsenal (WVA).

| Exhibit P-25, Production Sup | t and I | strial | ilities C | Analy | PB 2 | Army |  |  | ate: M | 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activ 2033A / 02 / 30 | / Budg | Sub Acti |  |  |  | P-1 Line 3270GC0 | mber oduction | le: <br> Base Support | CV-I |  |  |  |
| Project Title: Gymnasticator |  |  |  |  |  | Project WVA004 |  | Project Categ |  |  |  |  |
| End Item Supported Model: | 2 Breech | ock, Br | h Mech | ism |  |  |  | Annual Capa | Be | / After | -5): I |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \\ \hline \end{gathered}$ | FY 2024 | Facility Na Facility Lo | vliet Ar atervlie | (WVA) |  |  |  |  |
| A. Construction Cost | - | - | - | - | - | Facility Ty | , GOCO | CO): GOGO |  |  |  |  |
| B. Equipment Cost | - | 1.500 | - | - | - | Principal |  |  |  | onth \& Y |  |  |
| C. Equipment Installation Cost | - | 0.150 | - | - | - | Concept De | lete: |  |  |  |  |  |
| D. Contractor Support Cost | - | 0.150 | - | - | - | Final Desig Initial/Final |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - | Constructio |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - | Equipment | Comp |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - | Prove Out Prove Out |  |  |  |  |  |  |
| H. Other Costs | - | 0.400 | - | - | - |  |  | Related | jects |  |  |  |
| Total Project Cost | - | 2.200 | - | - | - | Project |  |  |  |  |  | Compl |
|  |  |  |  |  |  | Number | Title | FY \& Appn | $\begin{gathered} \text { Value } \\ (\$ M) \\ \hline \end{gathered}$ | Facing | Start Date | Date |

## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 2.200$ million supports the ability to test M 12 Breech Block, Breech Mechanism components in-house rather than having to send them to another facility. The system allows Watervliet Arsenal (WVA) to have this portion of the manufacturing process kept in-house to allow for faster and more efficient manufacturing durations.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 1.000$ million supports the procurement and installation of an automated Horizontal Machining Center, used to produce cannon piece parts. This systems replaces obsolete equipment.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2023 Base procurement dollars in the amount of $\$ 6.000$ million procures two spindle lathes. The hollow spindle lathe will support up to Extended Range Cannon Artillery (ERCA)-Length cannon, at one existing location and one new location in the factory, specifically for a guided bore system.


## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 3.200$ million supports the procurement of two (2) surface grinders, which are a major component manufacturing of breech mechanism components located at Watervliet Arsenal (WVA), New York. Surface grinding is a required process for breech rings and breech blocks.


## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 1.200$ million supports the procurement for a cannon tube runout table. This is required to measure Total Indicator Runout (TIR) on M256 cannon tubes throughout its manufacturing process located at Watervliet Arsenal (WVA), New York. The process is both a drawing and Quality Assurance Plan (QAP) requirement.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Wire Electric Discharge Machine |  |  |  |  |  | Project Number: WVA0053 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | FY 2024 Total | Facility Name: Watervliet Arsenal (WVA) Facility Location: Watervliet, NY Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | - | - | - | Principal Milestones Month \& Year <br> Concept Design Complete:  <br> Final Design Complete:  <br> Initial/Final Project Award:  <br> Construction Complete:  <br> Equipment Installation Complete:  <br> Prove Out Begins:  <br> Prove Out Complete:  |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | 1.200 | - | 1.200 |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | 0.150 | - | 0.150 |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | 0.050 | - | 0.050 |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost | - | - | 1.400 | - | 1.400 | Project Number | Title |  | Value (\$M) | Facing | Start Date | $\begin{aligned} & \text { Compl } \\ & \text { Date } \end{aligned}$ |
|  |  |  |  |  |  |  |  | FY \& Appn |  |  |  |  |

## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 1.400$ million supports the procurement and installation of a Wire Electric Discharge Machine (EDM) that is a required process to support minor component manufacturing of the M256 Block Crank and the M256 operating crank located at Watervliet Arsenal (WVA), New York. This automated system will be used to make precise and complex geometry cutting of metal sheets, plates, and blocks to support production of cannon systems. The EDM can replace very costly and time-consuming broaching operations and will support processing modernization as well as reducing operating costs and Takt times. Takt time is a calculation of the available production time divided by customer demand.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Quality Control Inspection Equipment |  |  |  |  |  | Project Number: WVA0054 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | FY 2024 Total | Facility Name: Watervliet Arsenal (WVA) <br> Facility Location: Watervliet, NY <br> Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | - | - | - | Principal Milestones <br> Concept Design Complete: <br> Final Design Complete: <br> Initial/Final Project Award: <br> Construction Complete: <br> Equipment Installation Complete: <br> Prove Out Begins: <br> Prove Out Complete: |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | 5.100 | - | 5.100 |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | 0.200 | - | 0.200 |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | 0.100 | - | 0.100 |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost | - | - | 5.400 | - | 5.400 | Project Number | Title |  | Value <br> (\$ M) | Facing | Start Date | Compl Date |
|  |  |  |  |  |  |  |  | FY \& Appn |  |  |  |  |

## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 5.400$ million supports equipment that will be used to support modernization of quality control functions by implementing the digitalization of data gathering to implement Statistical Process Control (SPC) located at Watervliet Arsenal (WVA), New York. Equipment will also be used to mitigate single points of failures as well as support increased workload.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Tri-Chrome Conversion |  |  |  |  |  | Project Number: WVA0055 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ | Facility Name: Watervliet Arsenal (WVA) <br> Facility Location: Watervliet, NY <br> Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | - | - | - | Principal Milestones <br> Concept Design Complete: <br> Final Design Complete: <br> Initial/Final Project Award: <br> Construction Complete: <br> Equipment Installation Complete: <br> Prove Out Begins: <br> Prove Out Complete: |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | - | - | - |  |  |  | Principal Milestones  <br> Concept Design Complete:  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | 9.400 | - | 9.400 |  |  | Related | jects |  |  |  |
| Total Project Cost | - | - | 9.400 | - | 9.400 |  |  |  |  |  |  | Compl |
|  |  |  |  |  |  | Number | Title | FY \& Appn | $\begin{aligned} & \text { Value } \\ & \text { (\$ M) } \end{aligned}$ | Facing | Start Date | Date |

## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 9.400$ million supports the procurement and installation of the conversion from hexavalent chromium plating to trivalent chromium plating located at Watervliet Arsenal (WVA), New York. This project is primarily focused on inner diameter bore coatings for large caliber weapons systems, which provide wear and erosion protection from the thermal, chemical, and mechanical impacts of a projectile. Tri Chrome attributes: Removes the dependence on hexavalent chromium for bore coatings. Newly renovated chrome plating facility will readily accept this new process. Process efficiencies have high potential to increase production capacity. This process introduces a new capability and expands current manufacturing options at WVA.

This is a new start project in FY 2024.


## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 1.200$ million supports the Preform Advanced Material Purchase plating located at Watervliet Arsenal (WVA), New York. This pre-positions critical long lead castings and forgings to increase flexibility in US requirements and supply chain disruptions. Purchase of Howitzer cannon subcomponents to prove out new manufacturing capability investments at Watervliet arsenal from other (multiple) Production Base Support (PBS) investments.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Minor Plating Reconstitution |  |  |  |  |  | Project Number: WVA0057 |  | Project Category: |  |  |  |  |
| End Item Supported Model: |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | FY 2024 Total | Facility Name: Watervliet Arsenal (WVA) Facility Location: Watervliet, NY Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | 2.000 | - | 2.000 | Principal Milestones Month \& Year <br> Concept Design Complete:  <br> Final Design Complete:  <br> Initial/Final Project Award:  <br> Construction Complete:  <br> Equipment Installation Complete:  <br> Prove Out Begins:  <br> Prove Out Complete:  |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | 2.000 | - | 2.000 |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost | - | - | 4.000 | - | 4.000 | Project Number | Title | FY \& Appn | Value (\$M) | Facing | Start Date | Compl Date |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 4.000$ million conduct a study for renovating the minor plating line (aka anodization which is the process used for chrome plating). Minors refers to smaller parts as opposed to the cannon tube plating line). This includes new anodization equipment as well as upgrades to infrastructure like the subterranean piping for flow of chemicals involved in the process. This system will allow the Arsenal to anodize metal parts to provide corrosion and wear resistance. Bringing this capability into WVA will increase cannon production rates by eliminating the delays caused by long lead times at outside vendors.


## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 16.263$ million support the Abrams Tank Production Process and Abrams Industrial Base by focusing on maintaining improving, optimizing, and modernizing the manufacturing facilities located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. These small projects include, but are not limited to: rehabilitation and modernization of office spaces in various buildings on the property; perimeter fence clearing, zone spraying, and dead tree cutting; refurbishing and modernizing bridge ports and the manufacturing center; replacing, modernizing, and updating equipment (i.e., bump course controls, air conditioners, heat recovery units, steam \& condensate lines, forklifts, concrete, cranes, etc.) that are past their useful life and/or have been in service for over 20 years.

No JSMC Miscellaneous Small Project funding was requested in FY 2023. This was due to available funding levels within the Production Base Support line and FY 2023 priority requirements supporting the Extended Range Cannon Artillery production base at Watervliet Arsenal supporting and the Army's modernization priorities.

FY 2024 funding request supports JSMC projects that were deferred from FY 2023 to FY 2024 as well as projects originally planned for execution in FY 2024 (approximately $\$ 7-8$ million per year).


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 6.500$ million support the purchase of a modernized medium sized Horizontal Boring Mill (HBM) with rotary table at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The TM004, which was installed in 1982, is currently at the end of its useful life and parts/components are becoming obsolete. This modernized equipment will replace the existing system and provide increased capability and automation.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement funds in the amount of $\$ 2.500$ million support the replacement of the existing Vertical Machining Centers (VMCs) with modernized systems which are more reliable, automated and have more capabilities at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The current VMCs are $15-20$ years old and are experiencing high repair and maintenance costs.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 1.750$ million support the removal and replacement of two Virtual Machining Centers (VMC) that are 22 and 25 years old and at the end of their useful life. The old VMCs experience excessive downtime, require continual repair, and have incurred high maintenance costs. The new modernized Vertical Machining Center (VMC) will be more efficient and will provide improved capabilities.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 5.500$ million support the purchase and installation of an automated robotic blast system to replace the existing manual blast system. The current equipment, installed in 2007, is near the end of its useful life and has become severely worn due to the nature of the blasting environment.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 1.653$ million supports the design and procurement of a Radio Frequency Identification (RFID) Asset Tracking system to needed to modernize the tool room infrastructure. This automated RFID tracking system is required to ensure accountability of United States Government (USG) assets throughout the Joint Systems Manufacturing Center (JSMC) - Lima, OH.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount $\$ 1.000$ million support the purchase of an automated Robotic Machine Tending System for load/unload of component machining centers. The use of Collaborative Robots (Cobots) increase safety and reduce injury; increase output and accuracy; and are able to operate in harsh environments.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 2.381$ million support the repair, refurbishment or replacement of aging locomotives at Joint Systems Manufacturing Center (JSMC) - Lima, OH. Locomotives are used extensively to push and rearrange transport cars within the JSMC rail yard to facilitate the unloading/loading of tanks. The typical livespan of a locomotive is 25 to 30 years and the average age of locomotives in service at JSMC is 32 years.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 2.000$ million support the design of space, facilities and installation of required infrastructure to support autonomous material handling and remote monitoring of automated equipment at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. Autonomous material handling systems are not only more efficient, they provide increased safety, as well as, assist in providing for a cleaner environment by reducing the amount of fossil fuels used for repetitive material moves throughout the facility.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 2.000$ million support modernization of the breakroom and the upstairs locker room area at the Joint Systems Manufacturing Center (JSMC) - Lima, OH and will provide design space and facilities for remote monitoring of automated equipment.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 7.540$ million support the required renovation and upgrade of the Water Tower Piping at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The piping around the water tower is part of the underground utilities infrastructure designed and installed decades ago. Failure repairs have increased over the past several years and the piping has reached its expected service life.

Following an inspection completed at the end of 2020, multiple items were identified to be in need of repair or replacement. This project includes but is not limited to the underground piping around the water tower plant and northeast side of Building 147; the renovation of the water piping from the water tower to the new fire pumps and fire protection system in Building 66; new fire protection piping to Building 73 (Administration/Government Offices) and approximately $30 \%$ of Building 147 (Main Production) to include areas on the west side on Building 147 where sanitary sewer and storm drains connected, which is an Environmental Protection Agency (EPA) violation.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 4.121$ million supports replacement of arch beam cranes at Joint Systems Manufacturing Center (JSMC) - Lima, OH . This type of crane has not been manufactured since 1962. A safety recall has been issued for these cranes, replacement parts are no longer available and the design is no longer recommended for use in "any type" of application. The welds weaken with time and could result in Martensitic Failure resulting in the bottom rail peeling away from the web plate and the potential for catastrophic load drop failure and the potential for fatal consequences.


## Narrative Explanation:

There is no FY 2024 budget request for this project.

FY 2022 Base procurement dollars in the amount of $\$ 1.102$ million support the replacement of the Drag Line in Building 281 at Joint Systems Manufacturing Center (JSMC) - Lima, OH. The Drag Line in Building 281 has had numerous repairs through the years. The inner-workings (chains, gears, etc.) are worn out, at the end of life, and need to be replaced.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base funding in the amount of $\$ 1.160$ million supports the replacement of the cooling tower in the power house located at Joint Systems Manufacturing Center (JSMC) - Lima, OH. The galvanized steel in the cooling tower is deteriorating beyond repair and the parts required to keep the equipment sustainable are obsolete and difficult to procure.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Rehabilitate Hardstand Pavement |  |  |  |  |  | Project Number: JSMC022 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ | Facility Name: Joint Systems Manufacturing Center (JSMC) - Lima Facility Location: Lima, OH <br> Facility Type (GOGO, GOCO, COCO): GOCO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | - | - | - | Principal Milestones <br> Concept Design Complete: <br> Final Design Complete: <br> Initial/Final Project Award: <br> Construction Complete: <br> Equipment Installation Complete: <br> Prove Out Begins: <br> Prove Out Complete: |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | 1.061 | - | 1.061 |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost | - | - | 1.061 | - | 1.061 | Project Number | Title |  | Value <br> (\$M) | Facing | Start Date | Compl Date |
|  |  |  |  |  |  |  |  | FY \& Appn |  |  |  |  |

## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 1.061$ million support the replacement of large portions of the hardstand located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. This is used for the delivery and shipment of material throughout the facility at JSMC. The pavement is past its useful life and has increasing repair costs. This project will allow new pavement which will be designed to handle the new weight of the vehicles being operated.


## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 1.180$ million supports the replacement of the drag line in building 147 (B147) which is responsible for moving the assembly line during production located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. It is at the end of its useful life and is showing signs of failure. The drag line uses two large and equally long chains that drag a bar that pulls the tanks, hulls, turrets, etc. through multiple stations on the assembly line during the production process. The chains throughout this process have come out of alignment and have become increasingly difficult to move forward during production. This replacement will allow for reduced downtime and updated capacity to effectively move structures down the assembly line efficiently at JSMC.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Replace Fire Sprinkler System Components |  |  |  |  |  | Project Number: <br> JSMC024 |  |  |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | FY 2024 Total | Facility Name: Joint Systems Manufacturing Center (JSMC) - Lima Facility Location: Lima, OH Facility Type (GOGO, GOCO, COCO): GOCO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | - | - | - | Principal Milestones Month \& Year <br> Concept Design Complete:  <br> Final Design Complete:  <br> Initial/Final Project Award:  <br> Construction Complete:  <br> Equipment Installation Complete:  <br> Prove Out Begins:  <br> Prove Out Complete:  |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | 3.609 | - | 3.609 |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost | - | - | 3.609 | - | 3.609 | Project Number | Title | FY \& Appn | Value (\$ M) | Facing | Start Date | $\begin{aligned} & \text { Compl } \\ & \text { Date } \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 3.609$ million supports the procurement and installation of 50 -year-old fire sprinkler components located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. Majority of the fire sprinkler systems on site are over 50 years in age which is causing increasing failures throughout the facility. This project will decrease leaks, potential failure, and allow for minimal production impacts. This replacement will allow for systems to be updated when the replacement is completed.


## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 1.785$ million supports the design and construction of many structural and masonry issues with building 142 (B142) located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. Some issues are not structural in nature, but they allow the outside elements into the building. An outside engineering firm was brought on site to review the conditions of B142. This building needs to have some structural repairs done. These include the six (6) main areas which will bring the existing building up to be structurally safe and allow for continual operation. This building provides all compressed air and steam for the plant which directly supports main production buildings at JSMC.


## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 1.817$ million support the replacement of 480 -volt substation located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. This project will allow for clean uninterrupted power to the production process. While completing this replacement, it will reduce safety hazards by reducing the plant arc flash rating on the affected power distribution equipment.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Upgrade Cranes CO0112 and CO0431 Turret Line Station 0 |  |  |  |  |  | Project Number: JSMC027 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | FY 2024 Total | Facility Name: Joint Systems Manufacturing Center (JSMC) - Lima Facility Location: Lima, OH <br> Facility Type (GOGO, GOCO, COCO): GOCO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | 1.090 | - | 1.090 | Principal MilestonesConcept Design Complete:Final Design Complete:Initial//inal Project Award:Construction Complete:Equipment Installation Complete:Prove Out Begins:Prove Out Complete: |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | 0.760 | - | 0.760 |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost | - | - | 1.850 | - | 1.850 | Project Number | Title |  | Value (\$M) | Facing | Start Date | Compl Date |
|  |  |  |  |  |  |  |  | FY \& Appn |  |  |  |  |

## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 1.850$ million supports the removal of obsolete equipment and the installation of new cranes CO0112 and CO0431, used at Turret Line Station 0 located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. This will reduce the amount of downtime to assembly tasks at this station because of the age of existing equipment.


## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 1.500$ million support the replacement of government owned mobile equipment on site that directly supports production located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The equipment is the primary way that all material is delivered to the line during production activities. The equipment is at the end of its useful life and is requiring increased maintenance costs and obsolescence.


## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 5.000$ million supports the required replacement of large shaw box cranes located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The cranes serve as the primary way of moving material during the production process throughout the facility. The replacement and modernization of these cranes allow us to avoid increasing maintenance cost along with allowing for us to correct safety concerns with the cranes during inspections.


## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 6.857$ million support the required renovation and upgrade of Building 351 outside utilities replacement at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The piping around the production building is part of the underground utility infrastructure designed and installed decades ago. Which includes several various utilities used for production and site operations. Failure repairs have increased over the past several years and the piping has reached its expected service life. The increase in failures has caused production impacts and decreased production efficiency.

This project is a new start in FY 2024.


## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 7.909$ million supports the removal of obsolete equipment and the procurement and installation of turret machining equipment on the production line located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. This project will also make improvements to the workspace required to install the new equipment. This equipment provides large machining capability which will be instrumental in modernizing the machining capability while reducing downtime during current production.

This project is a new start in FY 2024.


## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 8.570$ million support the required renovation and upgrade of Building 147 (B147) south side underground infrastructure improvements at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. The piping around the south side of B147 is part of the underground utilities infrastructure designed and installed decades ago. Which includes several various utilities used for production and site operations. Failure repairs have increased over the past several years and the piping has reached its expected service life. The increase in failures has caused production impacts and decreased production efficiency.

This project is a new start in FY 2024.


## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 0.952$ million support the project to take existing manual fabrication and assembly inspections paper processes throughout the Joint Systems Manufacturing Center (JSMC) and transform electronically recorded information into one (1) central software. This migration from manual process to electronically recorded process with a final inspection is a planned reduction of $3-4 \%$ of standard operating efficiency. The project will allow for inprocess asset tracking to improve quality and accountability which will modernize the facilities flexibility and capability for future army plans.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Electronic Final Inspection Records |  |  |  |  |  | Project Number: JSMC036 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): I |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | FY 2024 Total | Facility Name: Joint Systems Manufacturing Center (JSMC) - Lima Facility Location: Lima, OH <br> Facility Type (GOGO, GOCO, COCO): GOCO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | - | - | - | Principal Milestones Month \& Year <br> Concept Design Complete:  <br> Final Design Complete:  <br> Initial/Final Project Award:  <br> Construction Complete:  <br> Equipment Installation Complete:  <br> Prove Out Begins:  <br> Prove Out Complete:  |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | 0.976 | - | 0.976 |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
|  |  |  |  |  |  | Project Number | Title |  | Value (\$M) | Facing | Start Date | Compl Date |
|  |  |  |  |  |  | FY \& Appn |  |  |  |  |  |

## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 0.976$ million support the project of taking the existing manual paper final inspection processes throughout the Joint Systems Manufacturing Center (JSMC) and transform electronically recorded information into one (1) central software. This migration from manual processes to electronically recorded processes with a final inspection is a planned reduction of $3-4 \%$ of standard operating efficiency. The project will allow for in-process asset tracking to improve quality and accountability which will modernize the facilities flexibility and capability for future Army plans.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Level/Alignment of Hull Machines (HM) HM0035 \& HM0036 |  |  |  |  |  | Project Number: JSMC037 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | FY 2024 Total | Facility Name: Joint Systems Manufacturing Center (JSMC) - Lima Facility Location: Lima, OH <br> Facility Type (GOGO, GOCO, COCO): GOCO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | 0.700 | - | 0.700 | Principal MilestonesConcept Design Complete:Final Design Complete:Initial//inal Project Award:Construction Complete:Equipment Installation Complete:Prove Out Begins:Prove Out Complete: |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | 0.277 | - | 0.277 |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost | - | - | 0.977 | - | 0.977 | Project Number | Title |  | Value (\$M) | Facing | Start Date | Compl Date |
|  |  |  |  |  |  |  |  | FY \& Appn |  |  |  |  |

## Narrative Explanation:

FY 2024 Base procurement dollars estimated in the amount of $\$ 0.997$ million support the level and alignment of hull machines (HM) \#0035 and \#0036 that are a part of the heavy machining line (HML) and their transport system located at the Joint Systems Manufacturing Center (JSMC) - Lima, OH. This is repeated every two years to maintain the accuracy of the machine outputs. The equipment wear will start to build compounding errors in the bearing races and machined surfaces and those errors will be reflected in the quality of the machining work that the equipment can complete. This work will keep the machined surfaces square and true which allows for production quality and reduced potential downtime.

Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army
Date: March 2023

| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Title: Thick Plate Machining Line Equipment |  |  |  |  |  | Project Number: JMTC002 |  | Project Category: |  |  |  |  |
| End Item Supported Model: AMPV, SPHS, MPF, Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ | Facility Name: Rock Island Arsenal - Joint Manufacturing and Technology Center (RIA-JTMC) Facility Location: Rock Island, IL <br> Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | 8.215 | - | - | - | - | Principal Milestones <br> Concept Design Complete: <br> Final Design Complete: <br> Initial/Final Project Award: <br> Construction Complete: <br> Equipment Installation Complete: <br> Prove Out Begins: <br> Prove Out Complete: |  |  |  |  |  |  |
| C. Equipment Installation Cost | 0.295 | - | - | - | - |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | 1.659 | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost | 10.169 | - | - | - | - | Project <br> Number | Title | FY \& Appn | Value <br> (\$ M) | Facing | Start Date | Compl Date |

## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 10.169$ million support the procurement of equipment required for increasing the capacity and capability of the thick aluminum armor plate machining line at Rock Island Arsenal Joint Manufacturing and Technology Center, as well as, conduct Industrial Base studies on Organic and Commercial support to the Defense Industrial base. Machined thick plate aluminum vehicle components minimizes the dependence on welding and forgings, improving quality and decreasing lead times. This processing technology will reduce the number of welds to minimize issues associated with weld quality and reduce the propensity for shock induced weld rupture, which addresses the Armored Multi-Purpose Vehicle (AMPV) Capability Development Document (CDD) requirements for System Survivability and Force Protection. In addition, unitized structure will address "idler cracking" observed during AMPV mobility testing. Decreases in weld defects and distortions in hull structure will minimize rework and production delays. 14 AMPV components have been prototyped and are ready to be manufactured using this new production capability. Equipment includes, but is not limited to, a second roughing station, a second shuttle carriage and finishing station, and will support the automated fabrication of large machined components for the production of Army vehicles.
Equipment cost details:

1) Second Roughing Station: This would increase the capacity of the line and remove a single point issue with the robotic machining.
2) Second Shuttle Carriage with additional wait stations: This would allow more flexibility in the movement of parts on the line as well as allow longer periods of unmannned operation by allowing more stations to be prepared ahead.
3) Second Finishing Station: This would increase the throughput of the line and further extend unmanned operation time.
4) Thick Plate Machining Ancillary Equipment: Fixture manufacturing capability and refined fixtures to support the milling operations.

| Exhibit P-25, Production Su | rt and I | ustrial | ilities C | st Anal | s: PB 2 | 4 Army |  |  | ate: M | 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activ 2033A / 02 / 30 | / Budge | Sub Acti |  |  |  | P-1 Line 3270GC0 | mber <br> duct | e: <br> Base Support | OCV- |  |  |  |
| Project Title: Tool Room Mod | nization |  |  |  |  | Project JMTC003 |  | Project Categ |  |  |  |  |
| End Item Supported Model: | V, SPH | MPF, |  |  |  |  |  | Annual Cap | Be | / After | 8-5): / |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | FY 2024 Total | Facility Na Facility Lo | sland Isla | al - Joint Manufac | ng and |  | er (RIA-JT) |  |
| A. Construction Cost | - | - | - | - | - | Facility Typ | GOC | CO): GOGO |  |  |  |  |
| B. Equipment Cost | 0.838 | - | - | - | - | Principal M |  |  |  | onth \& Y |  |  |
| C. Equipment Installation Cost | 0.040 | - | - | - | - | Concept De | lete: |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - | Final Desig |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - | Constructio |  |  |  |  |  |  |
| F. Other In-House Support Cost | 0.060 | - | - | - | - | Equipment | Comp |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - | Prove Out Prove Out |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - |  |  | Related | jects |  |  |  |
| Total Project Cost | 0.938 | - | - | - | - | Project |  |  |  |  |  | Compl |
|  |  |  |  |  |  | Number | Title | FY \& Appn | $\begin{gathered} \text { Value } \\ (\$ M) \end{gathered}$ | Facing | Start Date | Date |

## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ .938$ million support the procurement of equipment required for increasing the capacity and precision of the tool room at Rock Island Arsenal Joint Manufacturing and Technology Center (JMTC). Equipment includes, but is not limited to, several new small machines (grinders, measuring equipment, lathes, mills) to enable fabrication of tools and fixtures for use on all JMTC programs to include the thick plate milling line. Project enables fabrication of tools and fixtures more quickly and with higher precision.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the the amount of $\$ 0.375$ million support the procurement of equipment required for increasing the capacity and precision of pliable material and composite cutting at Rock Island Arsenal Joint Manufacturing and Technology Center. Equipment is includes Computer Numerical Control (CNC) cutting table (also known as a burner table) and spreader. Pliable material and composites are cut manually and are labor intensive with low precision. This investment provides automated cutting with speed, precision, and increased capacity.


## Narrative Explanation:

There is no FY 2024 budget request for this project.
FY 2022 Base procurement dollars in the amount of $\$ 3.500$ million support the procurement of equipment required for increasing the capacity and capability of the thick aluminum armor plate machining line at Rock Island Arsenal Joint Manufacturing and Technology Center. Equipment includes, but is not limited to, a bridge mill to allow machining of larger parts and steel components to support the automated fabrication of large machined components for the production of Army vehicles. This investment will increase the capability by allowing machining of larger parts and allow machining of steel components and the fixtures from the line would increase capacity since it would be able to be used as a second finishing station if workload required.


## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 1.750$ million support the Abrams Tank Production Process and Abrams Industrial Base by focusing on maintaining, improving, optimizing, and modernizing the manufacturing facilities located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 2033A / } 02 \text { / } 30$ |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Flexible Plating Line |  |  |  |  |  | Project Number: JMTC007 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ | Facility Name: Rock Island Arsenal - Joint Manufacturing and Technology Center (RIA-JTMC) Facility Location: Rock Island, IL <br> Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | 1.236 | - | 1.236 |  |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost | - | - | 1.236 | - | 1.236 | Project Number | Title | FY \& Appn | Value (\$ M) | Facing | Start Date | $\begin{aligned} & \text { Compl } \\ & \text { Date } \end{aligned}$ |

## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 1.236$ million to procure and install a flexible electroless nickel plating line to support production located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL. This project re-introduces Nickel Plating capability to JMTC. Nickel plating is used to provide corrosion and wear surface protection for several weapons system components produced by JMTC. This project will replace existing, non-industry standard sand handling system with separate systems for differing sand and product types. This will enable best possible quality for both steel and aluminum cast weapon system parts. Mold shake-out will be enhanced through the replacement of an obsolete mold handling excavator ensuring a safe excavation process. The overall impact is an increase in cast part quality, reduction in environmental and personal safety impacts, developing and installing a new flexible plating line capable of electroless nickel coating and rapid switch to other new coatings. This will reduce lead time and supply chain risk on gun system parts by creating a new organic capability for current and future coatings and supports new and obsolescent weapon system production.


## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 1.236$ million to procure and install a sand handling system to support production located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL. This project will replace existing, non-industry standard sand handling systems with separate systems for differing sand and product types. This will enable the best possible quality for both steel and aluminum cast weapon system parts. Mold shake-out will be enhanced through the replacement of an obsolete mold handling excavator ensuring a safe excavation process. The overall impact is an increase in cast part quality and reduction in environmental and personal safety impacts.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Upgrade Existing Paint Booths |  |  |  |  |  | Project Number: JMTC009 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | FY 2024 Total | Facility Name: Rock Island Arsenal - Joint Manufacturing and Technology Center (RIA-JTMC) Facility Location: Rock Island, IL <br> Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | 2.700 | - | 2.700 | Principal Milestones Month \& Year <br> Concept Design Complete:  <br> Final Design Complete:  <br> Initial/Final Project Award:  <br> Construction Complete:  <br> Equipment Installation Complete:  <br> Prove Out Begins:  <br> Prove Out Complete:  |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | 1.800 | - | 1.800 |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - |  |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - |  |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - | Related Projects |  |  |  |  |  |  |
| Total Project Cost | - | - | 4.500 | - | 4.500 | Project Number | Title |  | Value (\$M) | Facing | Start Date | $\begin{aligned} & \text { Compl } \\ & \text { Date } \end{aligned}$ |
|  |  |  |  |  |  |  |  | FY \& Appn |  |  |  |  |

## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 4.500$ million is to convert two (2) existing manual paint lines and two (2) drive-in booths through the integration of a flexible robotic paint system located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL. This will automate a manufacturing process that nearly $90 \%$ of all arsenals manufacturing components utilize. Applying modern robotics and imaging systems to existing painting and post processing infrastructure will reduce labor costs, increase safety of workers, and improve quality through consistency. Robotic paint automation can reduce raw material consumption by up to $30 \%$ due to improved paint application accuracy and limiting waste through unnecessary overspray. Operationalizing robotic painting removes the hazards of volatile organic compound exposure for employees that are currently mitigated through cumbersome and bulky personal protective equipment. Organically manufactured components will gain schedule reliability from an automated painting process achieved through an increased throughput production capacity. Flexibility to efficiently execute to a variable quantity volume, with a high mix of complexity, will enable the painting of large weapon systems as well as mid to small size subcomponents of systems.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Sand Printing Package |  |  |  |  |  | Project Number: JMTC010 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): / |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | FY 2024 Total | Facility Name: Rock Island Arsenal - Joint Manufacturing and Technology Center (RIA-JTMC) Facility Location: Rock Island, IL <br> Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | 1.500 | - | 1.500 | Principal Milestones Month \& Year <br> Concept Design Complete:  <br> Final Design Complete:  <br> Initial/Final Project Award:  <br> Construction Complete:  <br> Equipment Installation Complete:  <br> Prove Out Begins:  <br> Prove Out Complete:  |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | 0.500 | - | 0.500 |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - |  |  | Related | jects |  |  |  |
| Total Project Cost | - | - | 2.000 | - | 2.000 |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Number | Title | FY \& Appn | $\begin{gathered} \text { Value } \\ (\$ M) \end{gathered}$ | Facing | Start Date | Date |

## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 2.000$ million support the procurement and installation of a sand printing package located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL. This continues the sand-casting process transformation from legacy molding techniques to a high-speed prototype and production methodology of printed sand cores and molds. This migration from manually producing wood patterns and core boxes to model based tooling development will significantly lessen the time for producing production castings and is immediately applicable to current Main Battle Tank System (MBTS) cast parts. The project incorporates robotic sand milling to produce mold cavities in an effective and efficient manner. Hard tooling will no longer be a prerequisite for creating low to medium volumes of mold cavities, reducing lead times and startup costs while improving product quality through rapid, iterative mold design.

| Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 30 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 3270GC0050 / Production Base Support (WOCV-WTCV) |  |  |  |  |  |  |
| Project Title: Large, Multi-Axis Machining |  |  |  |  |  | Project Number: JMTC011 |  | Project Category: |  |  |  |  |
| End Item Supported Model: Abrams |  |  |  |  |  |  |  | Annual Capacity Before / After (1-8-5): I |  |  |  |  |
| Cost Elements (\$ in Millions) | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | FY 2024 Total | Facility Name: Rock Island Arsenal - Joint Manufacturing and Technology Center (RIA-JTMC) Facility Location: Rock Island, IL <br> Facility Type (GOGO, GOCO, COCO): GOGO |  |  |  |  |  |  |
| A. Construction Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| B. Equipment Cost | - | - | 7.500 | - | 7.500 | Principal Milestones Month \& Year <br> Concept Design Complete:  <br> Final Design Complete:  <br> Initial/Final Project Award:  <br> Construction Complete:  <br> Equipment Installation Complete:  <br> Prove Out Begins:  <br> Prove Out Complete:  |  |  |  |  |  |  |
| C. Equipment Installation Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| D. Contractor Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| E. Corps of Engineers Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| F. Other In-House Support Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| G. Total Facility Project Cost | - | - | - | - | - |  |  |  |  |  |  |  |
| H. Other Costs | - | - | - | - | - |  |  | Related | jects |  |  |  |
| Total Project Cost | - | - | 7.500 | - | 7.500 | Project |  |  | Value |  |  | Compl |
|  |  |  |  |  |  | Number | Title | FY \& Appn | $(\$ M)$ | Facing | Start Date | Date |

## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 7.500$ million to support the procurement and installation of two (2) different large multi-axis machining systems and supporting equipment located at Rock Island Arsenal Joint Manufacturing and Technology Center (RIA-JMTC) - Rock Island, IL. These automated machining systems will be used to make precise and complex geometry cutting of metal sheets, plates, and blocks to support production of Cannon systems. Production quality and delivery will be modernized through improved repeatability, automation, more efficient cutting, and greater machine uptime. This project replaces outdated and unreliable existing machines with modern machines capable of producing large, machined armor components; reducing setup and run times, and enabling complex machining on next generation weapon systems.

This project is a new start in FY 2024.


## Narrative Explanation:

FY 2024 Base procurement dollars in the amount of $\$ 3.816$ million support the Army Test and Evaluation Command priorities at the following locations:

- Aberdeen Test Center (ATC) will continue to modernize fire control instrumentation required to assess weapon system fire control performance on a wide range of test items. Aberdeen Test Center will continue replacing and upgrading weapon, sight, and target scoring high-definition video cameras, recorders, digital video processing systems, fiber optic converters, and telemetry systems. Replacement equipment is scheduled to address obsolescence issues, software compatibility gaps, and deterioration of existing hardware while ensuring test equipment maintains pace with technological advances of test items to preclude lack of test support. Aberdeen Test Center will also procure new instrumentation that will allow Electromagnetic Interference (EMI) testing of current and future military platforms, including autonomous vehicles.
- White Sands Test Center (WSTC) will continue to maintain and upgrade existing equipment and instrumentation for the developing and evolving White Sands Missile Range (WSMR) directed energy - High-Power Microwave (HPM), Electromagnetic Pulse (EMP) and lightning effects test simulators. These items include sensors, oscilloscopes, fiber optic links, vacuum systems, cryogenic superconducting magnets, waveguides, antennas, cathodes, insulators, and various cabling and subassemblies. These efforts will help White Sands Test Center meet regulatory, customer, and/or evolving mission requirements.
- Yuma Test Center (YTC) will acquire upgraded sensors, sensor positioning equipment, control hardware, signal conditioners, and other data acquisition equipment and software to modernize and improve accuracy and efficiency of ballistics data acquisition.


[^0]:    ${ }^{(\dagger)}$ indicates the presence of a $\mathrm{P}-5 \mathrm{a}$

[^1]:    ${ }^{(\dagger)}$ indicates the presence of a P-5a

[^2]:    ${ }^{( }+$) indicates the presence of a P-21

[^3]:    Justification:
    There is no FY 2024 budget request for this funding line.

[^4]:    Justification:
     (NET).

    Notes:

[^5]:    Justification:

[^6]:    ${ }^{(\dagger)}$ indicates the presence of a P-5a

