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


## UNCLASSIFIED

## Army • Budget Estimates FY 2021 • Procurement

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## Cost Statement

The following Justification Books were prepared at a cost of $\$ 460,860$ : 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 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, \$3,711,965,000 to remain available for obligation until September 30, 2023.

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

- OCO for Direct War Costs $(\$ 15,225,000)$ : Direct War costs are those combat or direct combat support costs that will not continue to be expended once combat operations end at major contingency locations.
- OCO for Enduring Requirements (\$000): OCO for Enduring Requirements are enduring in-theater and in-CONUS costs that will likely remain after combat operations cease, and have previously been funded in OCO.
- OCO for Base Requirements (\$000): OCO for Base Requirements is funding to pay for base budget requirements, that are financed in the OCO budget in order for the Department to comply with the Budget Control Act of 2011."

Department of the Army
FY 2021President's Budget
Exhibit P-1 FY 2021 President's Budget
Total Obligational Authority
27 Jan 2020
(Dollars in Thousands)

## Appropriation

Procurement of W\&TCV, Army
Total Department of the Army

FY 2019
(Base +0 O)
$5,569,768$
$5,569,768$

FY 2020
Base Enacted

4,663,597
FY 2020
Emergency
------------
$4,663,597$

FY 2020 oco Enacted -------------

346,306
346,306

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

FY 2021
OCO for
Direct War and Enduring Costs

FY 2021
OCO for Base Requirements ---------------

3,696,740
$3,696,740$

15,225
15,225

## UNCLASSIFIED

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

## Appropriation

Procurement of W\&TCV, Army
Total Department of the Army
FY 2021
Total

OCO | FY 2021 |
| :---: |
| Total |
| (Base +OCO) |

(Dollars in Thousands)
Appropriation: Procurement of W\&TCV, Army

## Budget Activity

1. Tracked Combat Vehicles

EY 2019
(Base + OCO)
-----.-.-.-.--
$5,184,457$
385,311
$5,569,768$
EY 2020
Base Enacted
$4,482,607$
180,990
$4,663,597$

FY 2020 Emergency oco Enacted Oco Enacted

311,836
34,470
346,306

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

FY 2021
OCO for
Direct War and Enduring Costs

EY 2021
oco for Base Requirements ---------
$3,536,410$
160,330
15,225
15,225

| Budget Activity | FY 2021 Total oco | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \\ \text { (Base + OC0) } \end{gathered}$ |
| :---: | :---: | :---: |
| 01. Tracked Combat Vehicles |  | 3,536,410 |
| 02. Weapons and Other Combat vehicles | 15,225 | 175,555 |
| Total Procurement of W\&TCV, Army | 15,225 | 3,711,965 |

$$
\begin{gathered}
\text { Department of the Army } \\
\text { FY 2021President's Budget } \\
\text { Exhibit P-1 FY } 2021 \text { President's Budget } \\
\text { Total Obligational Authority } \\
\text { (Dollars in Thousands) }
\end{gathered}
$$

Appropriation: 2033A Procurement of W\&TCV, Army
Line
No Item Nomenclature

Budget Activity 01: Tracked Combat Vehicles

## ---------------------

Tracked Combat Vehicles
1 BRADLEY PROGRAM
2 Armored Multi Purpose Vehicle (AMPV)

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

FY 2020
Base Enacted
Quantity $\quad$ Cost

FY 2020 S Code Quantity Quant Enacted ----- ---------- $\qquad$
FY 2020
Emergency
Quantity Cost

Quantity Cost OCO Enacted e Quantity Cost $c$

62 214,490 U
$4,100 \mathrm{U}$
A
13

62,107
6
31,697 U
A $4,517 \quad 4,500$
$13,100 \mathrm{U}$
-.-.-........

| A |  | 4,517 | 4,500 |  |
| ---: | ---: | ---: | ---: | ---: |
| A | 21 | 119,147 | 45 | 205,517 |
| A |  | 959,041 |  | 340,192 |

A $168 \quad 1,527,243 \quad 165 \quad 1,746,007$
$\qquad$
311,836

5 Bradley Program (MOD)
6 M109 FOV Modifications
7 Paladin Integrated Management (PIM)
8 Improved Recovery Vehicle (M88A2 HERCULES)
9 Assault Bridge (Mod)
10 Assault Breacher Vehicle
$4,482,607$

$$
\begin{gathered}
\text { Department of the Army } \\
\text { FY 2021President's Budget } \\
\text { Exhibit P-1 FY } 2021 \text { President's Budget } \\
\text { Total Obligational Authority } \\
\text { (Dollars in Thousands) }
\end{gathered}
$$

|  |  |  |  |  | FY 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | FY 2020 |  |  |  |  |  | OCO for |  |
|  | Total Enacted |  |  |  | FY |  | Direc | Nar |
|  | (Base+ | rg+ | FY |  | OCO f | Base | and En | ing |
| Ident | OCO) |  | Base |  | Requirements |  | Costs |  |
| Code | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost |

Budget Activity 01: Tracked Combat Vehicles
--------------------
Tracked Combat Vehicles

| 1 BRADLEY PROGRAM | B |  |  |  |  | U |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 Armored Multi Purpose Vehicle (AMPV) | A | 121 | 444,797 | 32 | 192,971 | U |
| Modification of Tracked Combat Vehicles |  |  |  |  |  |  |
| 3 Stryker (Mod) | A |  | 397,687 |  |  | U |
| 4 Stryker Upgrade | A | 143 | 513,858 | 154 | 847,212 | U |
| 5 Bradley Program (MOD) | A |  | 415,740 |  | 493,109 | U |
| 6 M109 FOV Modifications | A |  | 25,756 |  | 26,893 | U |
| 7 Paladin Integrated Management (PIM) | A | 48 | 553,425 | 30 | 435,825 | U |
| 8 Improved Recovery Vehicle (M88A2 HERCULES) | A | 16 | 80,146 |  |  | U |
| 9 Assault Bridge (Mod) |  |  | 22,021 |  | 5,074 | ${ }^{0}$ |
| 10 Assault Breacher Vehicle | A | 6 | 31,697 | 4 | 19,500 | U |
| 11 M88 FOV MODS | A |  | 4,500 |  | 18,382 | U |
| 12 Joint Assault Bridge | A | 45 | 205,517 | 14 | 72,178 | U |
| 13 M1 Abrams Tank (MOD) | A |  | 353,292 |  | 392,013 | U |
| 14 Abrams Upgrade Program | A | 165 | 1,746,007 | 89 | 1,033,253 | U |
| otal Tracked Combat Vehicles |  |  | 4,794,443 |  | 3,536,410 |  |

4,794,443
$3,536,410$

$$
\begin{gathered}
\text { Department of the Army } \\
\text { FY 2021President's Budget } \\
\text { Exhibit P-1 FY } 2021 \text { President's Budget } \\
\text { Total Obligational Authority } \\
\text { (Dollars in Thousands) }
\end{gathered}
$$

Total Obligational Authority 27 Jan 2020

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

| Line | Ident |  |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| No Item Nomenclature | Code | Quantity | Cost | Quan | ty Cost |
| Budget Activity 01: Tracked Combat Vehicles |  |  |  |  |  |
| Tracked Combat Vehicles |  |  |  |  |  |
| 1 BRADLEY PROGRAM | B |  |  |  |  |
| 2 Armored Multi Purpose Vehicle (AMPV) | A |  |  | 32 | 192,971 |
| Modification of Tracked Combat Vehicles |  |  |  |  |  |
| 3 Stryker (Mod) | A |  |  |  |  |
| 4 Stryker Jpgrade | A |  |  | 154 | 847,212 |
| 5 Bradley Program (MOD) | A |  |  |  | 493,109 |
| 6 M109 FOV Modifications | A |  |  |  | 26,893 |
| 7 Paladin Integrated Management (PIM) | A |  |  | 30 | 435,825 |
| 8 Improved Recovery Vehicle (M88A2 HERCULES) | A |  |  |  |  |
| 9 Assault Bridge (Mod) |  |  |  |  | 5,074 |
| 10 Assault Breacher Vehicle | A |  |  | 4 | 19,500 |
| 11 M88 FOV MODS | A |  |  |  | 18,382 |
| 12 Joint Assault Bridge | A |  |  | 14 | 72,178 |
| 13 M1 Abrams Tank (MOD) | A |  |  |  | 392,013 |
| 14 Abrams Upgrade Program | A |  |  | 89 | 1,033,253 |
| Total Tracked Combat Vehicles |  |  |  |  | 3,536,410 |



[^0]Department of the Army
FY 2021President's Budget
Exhibit P-1 FY 2021 President's Budget
Total Obligational Authority
27 Jan 2020
(Dollars in Thousands)
Appropriation: 2033A Procurement of W\&TCV, Army

|  |  |  |  |  |  |  |  |  | FY |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | FY |  |  |  |  |  | OCO |  |
|  |  |  | Total | ted |  |  | EY |  | Direc |  |
|  |  |  | (Base | rg+ | FY |  | OCO for | Base | and En | ing |
| Line |  | Ident |  |  |  |  | Requix | ents | Cos |  |
| No | Item Nomenclature | Code | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost |

Budget Activity 02: Weapons and Other Combat Vehicles
$\qquad$

Weapons \& Other Combat Vehicles

| 15 M240 Medium Machine Gun (7.62mm) | A | 12,500 |  |  | U |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 16 MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON S | A | 19,264 | 17,864 | 4,765 | U |
| 17 Machine Gun, Cal . 50 M 2 Roll | A |  |  |  | U |
| 18 Mortar Systems |  | 33,026 | 10,288 | 10,460 | U |
| 19 XM320 Grenade Launcher Module (GLM) | A | 717 | 5,969 |  | U |
| 20 Precision Sniper Rifle | A | 5,747 | 10,137 |  | U |
| 21 COMPACT SEMI-AUTOMATIC SNIPER SYSTEM | A | 9,860 | 999 |  | U |
| 22 Carbine | A | 31,514 | 7,411 |  | U |
| 23 Next Generation Squad Weapon | A |  | 35,822 |  | U |
| 24 Common Remotely Operated Weapons Station |  | 28,189 | 24,534 |  | U |
| 25 Handgun | A | 6,422 | 4,662 |  | U |
| Mod of Weapons and Other Combat Veh |  |  |  |  |  |
| 26 MK-19 Grenade Machine Gun MODS |  | 3,737 | 6,444 |  | U |
| 27 M777 Mods | A | 2,367 | 10,983 |  | U |
| 28 M4 Carbine Mods | A | 17,595 | 4,824 |  | U |
| 29 M2 50 Cal Machine Gun mods | B | 6,090 |  |  | U |

30 M249 SAW Machine Gun MODS


| Line | Ident | FY 2021 <br> Total OCO |  | FY 2021 Total |  | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No Item Nomenclature | Code | Quantity | Cost | Quantity | Cost | c |
| Budget Activity 02: Weapons and Other Combat Vehicles |  |  |  |  |  |  |
| Weapons \& Other Combat Vehicles |  |  |  |  |  |  |
| 15 M240 Medium Machine Gun (7.62mm) | A |  |  |  |  | U |
| 16 MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON S | A |  | 4,765 |  | 22,629 | U |
| 17 Machine Gun, Cal . 50 M2 Roll | A |  |  |  |  | U |
| 18 Mortar Systems |  |  | 10,460 |  | 20,748 | U |
| 19 XM320 Grenade Launcher Module (GLM) | A |  |  |  | 5,969 | U |
| 20 Precision Sniper Rifle | A |  |  |  | 10,137 | U |
| 21 COMPACT SEMI-AJTOMATIC SNIPER SYSTEM | A |  |  |  | 999 | U |
| 22 Carbine | A |  |  |  | 7,411 | U |
| 23 Next Generation Squad Weapon | A |  |  |  | 35,822 | U |
| 24 Common Remotely Operated Weapons Station |  |  |  |  | 24,534 | U |
| 25 Handgun | A |  |  |  | 4,662 | U |
| Mod of Weapons and Other Combat Veh |  |  |  |  |  |  |
| 26 MK-19 Grenade Machine Gun Mods |  |  |  |  | 6,444 | U |
| 27 M777 Mods | A |  |  |  | 10,983 | U |
| 28 M4 Carbine Mods | A |  |  |  | 4,824 | U |
| 29 M2 50 Cal Machine Gun MODS | B |  |  |  |  | U |
| 30 M249 SAW Machine Gun MODS |  |  |  |  |  | U |

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\text { Department of the Army } \\
\text { FY } 2021 \text { President's Budget } \\
\text { Exhibit P-1 FY } 2021 \text { President's Budget } \\
\text { Total Obligational Authority } \\
\text { (Dollars in Thousands) }
\end{gathered}
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Appropriation: 2033A Procurement of W\&TCV, Army

## Line <br> No Item Nomenclature

31 M240 Medium Machine Gun MODS
32 Sniper Rifles Modifications
33 M119 Modifications

## Ident

dent (Base + OCO)

## FY 2020 Base Enacted Quantity Cost

FY 2020 S OCO Enacted e Quantity Cost $c$

34 Mortar Modification A

Support Equipment \& Facilities
36 Items Less Than $\$ 5.0 \mathrm{~m}$ (WOCV-WTCV)
37 Production Base Support (WOCV-WTCV)
38 Small Arms Equipment (Soldier Enh Prog)
Total Weapons and Other Combat Vehicles
Total Procurement of W\&TCV, Army

A
A

## 6,947

8,000
2,426
16,269
1,693
4,327

3,066
5,704
3,965
6,362

2,651
4,571

1,640
385,311
5,569,768

$4,663,597$


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\begin{gathered}
\text { Department of the Army } \\
\text { FY } 2021 \text { President's Budget } \\
\text { Exhibit P-1 FY } 2021 \text { President's Budget } \\
\text { Total Obligational Authority } \\
\text { (Dollars in Thousands) }
\end{gathered}
$$

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

| Line | Ident | $\begin{array}{r} \text { FY } 2 \\ \text { Total } \\ \text { (Baset } \\ 00 \end{array}$ | 20 <br> acted <br> merg+ <br> ) | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ |  | FY 2021 OCO for Base Requirements |  | FY 2021 <br> OCO for Direct War and Enduring Costs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No Item Nomenclature | Code | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity |
| 31 M240 Medium Machine Gun mods | A |  | 8,000 |  | 6,385 |  |  |  |
| 32 Sniper Rifles Modifications |  |  | 2,426 |  | 1,898 |  |  |  |
| 33 M119 Modifications | A |  | 16,269 |  | 2,009 |  |  |  |
| 34 Mortar Modification | A |  | 1,693 |  | 1,689 |  |  |  |
| 35 Modifications Less Than \$5.0m (WOCV-WTCV) |  |  | 4,327 |  | 2,604 |  |  |  |
| Support Equipment \& Facilities |  |  |  |  |  |  |  |  |
| 36 Items Less Than \$5.0m (WOCV-WTCV) |  |  | 3,066 |  | 2,763 |  |  |  |
| 37 Production Base Support (WOCV-WTCV) |  |  | 2,651 |  | 3,045 |  |  |  |
| 38 Small Arms Equipment (Soldier Enh Prog) |  |  |  |  |  |  |  |  |
| Total Weapons and Other Combat Vehicles |  |  | 15,460 |  | 60,330 |  |  |  |
| Total Procurement of w\&TCV, Army |  |  | 09,903 |  | 6,740 |  |  |  |

[^2]Department of the Army
FY 2021President's Budget Exhibit P-1 FY 2021 President's Budget

Total Obligational Authority
27 Jan 2020
(Dollars in Thousands)
Appropriation: 2033A Procurement of W\&TCV, Army


## UNCLASSIFIED <br> Army • Budget Estimates FY 2021 • 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 | 2897 G80718 | BRADLEY PROGRAM.. | 1 |
| 2 | 01 | 10 | 2944G80819 | Armored Multi Purpose Vehicle (AMPV). | 2 |
| 3 | 01 | 20 | 0230GM0100 | Stryker (Mod).. | 11 |
| 4 | 01 | 20 | 0363G85200 | Stryker Upgrade. | 12 |
| 5 | 01 | 20 | 1678 GZ2400 | Bradley Program (MOD).. | 30 |
| 6 | 01 | 20 | 2072GA0400 | M109 FOV Modifications. | 49 |
| 7 | 01 | 20 | 2073GZ0410 | Paladin Integrated Management (PIM)... | 70 |
| 8 | 01 | 20 | 3700GA0570 | Improved Recovery Vehicle (M88A2 HERCULES). | 81 |
| 9 | 01 | 20 | 4520GZ3250 | Assault Bridge (Mod)... | .... 82 |
| 10 | 01 | 20 | 4872G82925 | Assault Breacher Vehicle. | 88 |
| 11 | 01 | 20 | $5129 \mathrm{G80571}$ | M88 FOV MODS.... | ..... 96 |
| 12 | 01 | 20 | 5225GZ3001 | Joint Assault Bridge.. | 102 |
| 13 | 01 | 20 | 6406GA0700 | M1 Abrams Tank (MOD).... | 112 |
| 14 | 01 | 20 | 6500GA0750 | Abrams Upgrade Program..... | 130 |

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

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | 02 | 10 | 2472G13000 | M240 Medium Machine Gun ( 7.62 mm ) . | 139 |
| 16 | 02 | 10 | 3736G13101 | MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM.. | 140 |
| 17 | 02 | 10 | 5000GB2000 | Machine Gun, Cal . 50 M 2 Roll. | 147 |
| 18 | 02 | 10 | 6580G02200 | Mortar Systems... | 148 |
| 19 | 02 | 10 | 8181G01501 | XM320 Grenade Launcher Module (GLM). | . 158 |
| 20 | 02 | 10 | 8190G01506 | Precision Sniper Rifle. | 163 |
| 21 | 02 | 10 | 8194G01507 | COMPACT SEMI-AUTOMATIC SNIPER SYSTEM. | 168 |
| 22 | 02 | 10 | 8201G13501 | Carbine... | . 170 |
| 23 | 02 | 10 | 8205G14510 | Next Generation Squad Weapon.. | 175 |
| 24 | 02 | 10 | 8310G04700 | Common Remotely Operated Weapons Station.. | 184 |
| 25 | 02 | 10 | 8635G15325 | Handgun.. | 189 |
| 26 | 02 | 20 | 3000GB3000 | MK-19 Grenade Machine Gun MODS.. | ... 191 |
| 27 | 02 | 20 | 3005GZ1700 | M777 Mods.. | 204 |
| 28 | 02 | 20 | 3010GB3007 | M4 Carbine Mods... | 213 |
| 29 | 02 | 20 | 3015GB4000 | M2 50 Cal Machine Gun MODS. | 215 |
| 30 | 02 | 20 | 3020GZ1290 | M249 SAW Machine Gun MODS..... | 217 |

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## Army • Budget Estimates FY 2021 • Procurement

| Appropriation 2033A: Procurement of W\&TCV, Army |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| 31 | 02 | 20 | 3030GZ1300 | M240 Medium Machine Gun MODS | 218 |
| 32 | 02 | 20 | 3181GZ1500 | Sniper Rifles Modifications. | 223 |
| 33 | 02 | 20 | 3640GC0401 | M119 Modifications. | 225 |
| 34 | 02 | 20 | 7054G02100 | Mortar Modification. | 227 |
| 35 | 02 | 20 | 9280GC0925 | Modifications Less Than \$5.0m (WOCV-WTCV). | 228 |
| 36 | 02 | 30 | $1862 \mathrm{GL3200}$ | Items Less Than \$5.0m (WOCV-WTCV).. | 229 |
| 37 | 02 | 30 | 3270GC0050 | Production Base Support (WOCV-WTCV). | 231 |
| 38 | 02 | 30 | 4010GC0076 | Small Arms Equipment (Soldier Enh Prog)... | .. 233 |

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

| Line Item Title | Line Item Number | Line \# | BA | BSA |
| :--- | :--- | :--- | :--- | :--- |
| Abrams Upgrade Program | $6500 G A 0750$ | 14 | 01 | $20 . \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$ |

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| Line Item Title | Line Item Number | Line \# | BA | BSA |
| :--- | :--- | :--- | :--- | :--- |
| M240 Medium Machine Gun (7.62mm) | $2472 G 13000$ | 15 | 02 | $10 . \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$ |

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| Line Item Title | Line Item Number | Line \# | BA | BSA |
| :--- | :--- | :--- | :--- | :--- |
| XM320 Grenade Launcher Module (GLM) | 8181 G01501 | 19 | 02 | $10 \ldots \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . ~ 158 ~$ |

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Army • Budget Estimates FY 2021 • 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 |


| Model: | Armored Vehicle Launched Bridge |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Mod | fication Number |  | Modification Title | Applies to Multiple Models |
|  | GZ3250 | Assault Bridge (Mod) |  | Yes |


| Model: | Assault Breacher Vehicle |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
| GZ3250 |  | Assault Bridge (Mod) |  | Yes |
| Model: ${ }^{\text {M88 }}$ |  |  |  |  |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  | Modification Title |  | Applies to Multiple Models |
| G80571 |  | M88 FOV MODS |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Army • Budget Estimates FY 2021 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary (Listing by Model)

| Model: | Abrams Family of Vehicles |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Mod | fication Number |  | Modification Title | Applies to Multiple Models |
|  | GA0700 | M1 Abrams Tank (MOD) |  | No |


| MK-19 Grenade Machine Gun \& M2 50 Cal Machine Gun |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| GB3000 | MK-19 Grenade Machine Gun MODS | No |


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


| Model: | M240 Medium Machine Gun |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Mod | fication Number |  | Modification Title | Applies to Multiple Models |
|  | GZ1300 | M240 Medium Machine Gun MODS |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

## UNCLASSIFIED

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

## Funding (\$ M)

| P-3a Modification Title | PYS | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit P-3a |  |  |  |  |  |  |  |  |  |  |
| Bradley Program (MOD) | 5,954.388 | 514.424 | 415.740 | 493.109 | - | 493.109 | 467.648 | 261.313 | 54.993 | 30.562 |
| M109 FOV Modifications | 2,119.814 | 26.482 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 |
| Assault Bridge (Mod) | 355.160 | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 |
| M88 FOV MODS | 126.273 | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - |
| M1 Abrams Tank (MOD) | 6,960.483 | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 |
| MK-19 Grenade Machine Gun MODS | 44.754 | 1.684 | 3.737 | 6.444 | - | 6.444 | 11.666 | 14.369 | - | - |
| M777 Mods | 147.917 | 3.086 | 2.367 | 10.983 | - | 10.983 | - | - | - | - |
| M240 Medium Machine Gun MODS | 172.192 | 6.947 | 8.000 | 6.385 | - | 6.385 | 7.992 | 7.992 | 7.992 | - |
| Totals (Total Obligation Authority) |  |  |  |  |  |  |  |  |  |  |
| Total Obligation Authority | 15,880.981 | 1,518.601 | 835.413 | 959.283 | 0.000 | 959.283 | 978.093 | 831.667 | 637.583 | 797.446 |

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

## 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

| 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 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 137 | 70 | - | - | - | - | - | - | - | - | - | 207 |
| Gross/Weapon System Cost (\$ in Millions) | 364.069 | 205.000 | - | - | - | - | - | - | - | - | - | 569.069 |
| Less PY Advance Procurement (\$ in Millions) | 22.504 | - | - | - | - | - | - | - | - | - | - | 22.504 |
| Net Procurement (P-1) (\$ in Millions) | 341.565 | 205.000 | - | - | - | - | - | - | - | - | - | 546.565 |
| Plus CY Advance Procurement (\$ in Millions) | 22.504 | - | - | - | - | - | - | - | - | - | - | 22.504 |
| Total Obligation Authority (\$ in Millions) | 364.069 | 205.000 | - | - | - | - | - | - | - | - | - | 569.069 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | $\square$ | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 2,657.438 | 2,928.571 | - | - | - | - | - | - | - | - | - | 2,749.126 |

## Description:

The Bradley Program upgrades the existing Bradley M2A2 ODS and M2A2 ODS - Situational Awareness (ODS-SA)/M7A3 vehicle to the Bradley M2A4/M7A4 configuration to support the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Deterrence Initiative (EDI). Improvements to the Bradley M7A2 ODS-SA vehicle include increasing lethality by installing a Commander's Independent Viewer (CIV) providing a hunter-killer capability to the Bradley Gunner and Vehicle Commander, increasing survivability by incorporating improved suspension and track components, increasing mobility by integrating an upgraded engine and transmission improving vehicle acceleration, top speed, and braking capacity, and increasing vehicle electrical power generation and distribution by improving the system architecture and generation capabilities. Current projections indicate that the M2/M7A4 Bradley Fighting Vehicle will be critical for the ABCT formation until FY 2050 .

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 70 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 205.000 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 70 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 205.000 | - | - | - | - | - | - | - | - |

## Justification:

FY 2021 Base procurement dollars in the amount of $\$ 0.000$ million.
In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

## 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 Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 148 | 205 | 121 | 32 | - | 32 | 168 | 189 | 195 | 193 | 1,646 | 2,897 |
| Gross/Weapon System Cost (\$ in Millions) | 557.294 | 672.742 | 444.797 | 192.971 | - | 192.971 | 682.064 | 820.354 | 893.595 | 860.343 | 9,439.242 | 14,563.402 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 557.294 | 672.742 | 444.797 | 192.971 | - | 192.971 | 682.064 | 820.354 | 893.595 | 860.343 | 9,439.242 | 14,563.402 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 557.294 | 672.742 | 444.797 | 192.971 | - | 192.971 | 682.064 | 820.354 | 893.595 | 860.343 | 9,439.242 | 14,563.402 |
| (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) | 3,765.500 | 3,281.668 | 3,676.008 | 6,030.344 | - | 6,030.344 | 4,059.905 | 4,340.497 | 4,582.538 | 4,457.736 | 5,734.655 | 5,027.063 |

## Description:



 tracked fleet and consists of the following five variants:
 the MCmd. It will host current Battle Command Systems, future replacements, and upgrades of hardware and software.
 one patient by a medical crew of four.

4. General Purpose (GP) Vehicle: 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) Vehicle: This platform will provide immediate responsive fire support to conduct fast-paced offensive operations.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2021$ <br> Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 205 | 121 | 32 | - | 32 | 168 | 189 | 195 | 193 |
|  | Total Obligation Authority | 672.742 | 444.797 | 192.971 | - | 192.971 | 682.064 | 820.354 | 893.595 | 860.343 |
| Total: <br> Secondary Distribution | Quantity | 205 | 121 | 32 | - | 32 | 168 | 189 | 195 | 193 |
|  | Total Obligation Authority | 672.742 | 444.797 | 192.971 | - | 192.971 | 682.064 | 820.354 | 893.595 | 860.343 |


| Exhibit P-40, Budget Line Item Justification: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 2033A: Procurement of W\&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 10: <br> Tracked Combat Vehicles |  |  |  |  |  | $\begin{aligned} & \text { P-1 Line Item Number / Title: } \\ & \text { 2944G80819 / Armored Multi Purpose Vehicle (AMPV) } \end{aligned}$ |  |  |  |  |
| ID Cod | ( $\mathrm{A}=$ 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G80819 / Armored Multi Purpose Vehicle (AMPV) | P-5a, P-21 | A |  | 148 / 557.294 | 205/672.742 | 121/444.797 | $32 / 192.971$ | - 1 | $32 / 192.971$ |
| P-40 | Total Gross/Weapon System Cost |  |  |  | $148 / 557.294$ | 205/672.742 | 121/444.797 | $32 / 192.971$ | - 1 - | 32 / 192.971 |

${ }^{*}$ 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 future capability gaps in force protection, mobility, reliability, and interoperability across the Spectrum of Conflict.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objective (AAO): 2897 vehicles
This program supports the Cross Functional Team (CFT).
P40 quantity:
FY 2018: Actual quantity is 156
FY 2019: Actual quantity is 198


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| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 / Armored Multi Purpose Vehicle (AMPV) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |
| Army | Quantity | 205 | 121 | 32 | - | 32 |
|  | Total Obligation Authority | 672.742 | 444.797 | 192.971 | - | 192.971 |
| Total: <br> Secondary Distribution | Quantity | 205 | 121 | 32 | - | 32 |
|  | Total Obligation Authority | 672.742 | 444.797 | 192.971 | - | 192.971 |

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 2033A / } 01 \text { / } 10$ |  |  |  | P-1 Line Item Number / Title: <br> 2944G80819 / Armored Multi Purpose Vehicle (AMPV) |  |  |  | Item Number / Title [DODIC]: <br> G80819 / Armored Multi Purpose Vehicle (AMPV) |  |  |  |  |
| 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 ${ }^{(\dagger)}$ |  | 2018 | BAE Land Systems / York, PA | Option / FPIF | Warren, MI | Jan 2019 | Jun 2020 | 156 | 4,065.489 | N |  |  |
| Vehicle Manufacturing Contractor ${ }^{(\dagger)}$ |  | 2019 | BAE Land Systems / York, PA | Option / FPIF | Warren, MI | Jan 2019 | Jun 2021 | 198 | 3,091.894 | N |  |  |
| Vehicle Manufacturing Contractor ${ }^{(\dagger)}$ |  | 2020 | BAE Land Systems / York, PA | Option / FPIF | Warren, MI | Jan 2020 | Feb 2023 | 121 | 3,237.421 | N |  |  |
| Vehicle Manufacturing Contractor ${ }^{(\dagger)}$ |  | 2021 | BAE Land Systems / York, PA | Option / FPIF | Warren, MI | Apr 2022 | Oct 2023 | 32 | 3,553.656 | N |  |  |

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

## Remarks:

FY 2018: LRIP option 1 awarded 42 vehicles and LRIP option 2 a awarded 28 vehicles in Jan 2019. LRIP option 2 b awarded 86 vehicles in Feb 2019 . Total vehicles purchased with FY 2018 production is 156 vehicles.

FY 2020: LRIP option 3 will award 93 vehicles in Jan 2020. Follow-on award of 28 vehicles. Award date April 2022. Total vehicles purchased with FY 2020 production is 121 vehicles.
FY 2021: Follow-on award of 32 vehicles. Award date April 2022.

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 I Armored Multi Purpose Vehicle (AMPV) |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  | SERVICE | PROCQTY | ACCEPT <br> PRIOR <br> TO <br> TOT <br> OCT <br> 2018 | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |
|  | FY |  |  |  |  | - | N | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathbf{A} \\ & \mathrm{R} \end{aligned}$ | A P R | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { Y } \end{aligned}$ | J N | J L | A U G | S E P | O c T | N | D E c | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M <br>  <br> R | A P R | M $A$ Y | J U N | J u L | A U G | S E P |  |
| Vehicle Manufacturing - Contractor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | ARMY | 156 | 0 | 156 |  |  |  | A - | - | - | - | - | - | - |  |  | - | - | - | - | - | - |  |  | 1 |  |  | 2 | 149 |
| 1 | 2019 | ARMY | 198 | 0 | 198 |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |  | - | - |  | - | 198 |
| 1 | 2020 | ARMY | 121 | , | 121 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - |  | - | 121 |
| 1 | 2021 | ARMY | 32 | 0 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 32 |
|  |  |  |  |  |  | O <br> c <br> c | N 0 | D <br> E | J | F | M | A P P | M A | J | J | A | $\stackrel{\text { s }}{\text { E }}$ | O c c | N | D E ¢ | J | $\underset{\mathrm{F}}{\mathrm{F}}$ | M | A | M A | J | J | A | $\stackrel{\text { S }}{\text { E }}$ |  |
|  |  |  |  |  |  | T | v | c | N | в | R | R | Y | N | L | G | P | T | v | c | N | в | R | R | Y | N | L | G | ${ }^{\text {P }}$ |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <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 2021 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|l\|l\|} \hline \mathrm{M} \\ \mathrm{O} & \mathrm{~F} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{O} & \end{array}$ | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \hline \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2020 \\ \hline \end{array}$ | $\begin{gathered} \text { BAL } \\ \text { DSE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | 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 ${ }_{\text {M }}^{\text {A }}$ | J N | ${ }_{\text {J }}^{\text {u }}$ | A | S E P | O c T | N | D E c | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{Y} \end{aligned}$ | J ${ }_{\text {J }}^{\text {u }}$ | ${ }_{\text {J }}^{\text {J }}$ | A U G | $\underset{\mathrm{S}}{\mathbf{S}}$ |  |
| Venicle | Manu | acturing - Con | tractor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | ARMY | 156 | 7 | 149 | 4 | 2 | 3 | 3 | 4 | 6 | 6 | 6 | 1 | 10 | 13 | - | - | 10 | - | - | - | 10 | 16 | 16 | 16 | 12 |  | 3 | 1 |
| 1 | 2019 | ARMY | 198 | 0 | 198 | - | - | - | - | - | - | - | - | 2 | - | 3 | 16 | 16 | 4 | 12 | 16 | 16 | 6 | - | - | - | - |  | 13 | 85 |
| 1 | 2020 | ARMY | 121 | 0 | 121 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 121 |
| 1 | 2021 | ARMY | 32 | 0 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | 32 |
|  |  |  |  |  |  | O c T | N O V | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M <br>  <br> R | A <br>  <br> P <br> R | M A Y | J N | J | $\begin{aligned} & \hline A \\ & \mathbf{U} \\ & \text { G } \end{aligned}$ | $\begin{aligned} & \hline \mathbf{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline \text { J } \\ & \text { A } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & \text { A } \end{aligned}$ | A <br>  <br> $\mathbf{P}$ <br> R | M A Y | $\begin{aligned} & \hline \mathrm{J} \\ & \mathrm{u} \end{aligned}$ | J | A | S |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> G80819 / Armored Multi Purpose Vehicle <br> (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 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { N } \\ & \text { E } \\ & \hline \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|c\|c\|c\|c\|c\|c\|c\|c\|c\|} \hline 0 & \mathrm{~F} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{O} & \# \end{array}$ | FY | SERVICE | PROC | $\begin{gathered} \text { PROR } \\ \text { TO } 1 \\ \text { OCT } \\ 2022 \end{gathered}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A P R | M ${ }_{\text {M }}^{\text {A }}$ | J U | J | A U G | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> $\mathbf{P}$ <br> R | M M | U | ${ }_{\text {J }}^{\text {u }}$ | A | S E P |  |
| Venicl | Manuf | acturing - Co | tractor |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2018 | ARMY | 156 | 155 | 1 | - | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | ARMY | 198 | 113 | 85 | 16 | 13 | 12 | 16 | - | - | - | 5 | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | ARMY | 121 | 0 | 121 | - | - | - | - | 16 | 16 | 16 | 11 | - |  | 16 | 13 | - | - | 10 | 16 |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | ARMY | 32 | 0 | 32 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | 14 | 2 |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | O c c | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{A} \\ & \mathrm{P} \\ & \hline \mathbf{D} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & A \\ & y \end{aligned}$ | J | J | A U G | S E P | $\begin{aligned} & \hline \mathrm{O} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \end{aligned}$ | F | M A R | A $\mathbf{p}$ R | ¢ | J | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 |
| 1 | BAE Land Systems - York, PA | 3 | 10 | 16 | 0 | 10 | 19 | 29 | 0 | 6 | 18 | 24 |

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

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

## 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:
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: 0273735A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 840.608 | 127.289 | 397.687 | - | - | - | - | - | - | - | - | 1,365.584 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 840.608 | 127.289 | 397.687 | - | - | - | - | - | - | - | - | 1,365.584 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 840.608 | 127.289 | 397.687 | - | - | - | - | - | - | - | - | 1,365.584 |
| (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) | - | - | 1,472.915 | - | - | - | - | - | - | - | - | 5,057.719 |

## Description:



 capabilities of the Army's Stryker Brigade Combat Teams (SBCTs).

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 127.289 | 397.687 | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 127.289 | 397.687 | - | - | - | - | - | - | - |

## Justification:

FY 2021 Base procurement dollars in the amount of $\$ 0.000$ million.
Stryker Modification efforts and funds in Stryker (Mod), 0230GM0100, are realigned to Stryker Upgrade, 0363G85200, starting in FY 2021.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

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

0363 G 85200 / Stryker Upgrade

## 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: 0203735A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 440 | 82 | 143 | 154 | - | 154 | 148 | 148 | 142 | 142 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 1,462.090 | 265.290 | 513.858 | 847.212 | - | 847.212 | 903.648 | 938.202 | 910.545 | 906.095 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |
| Net Procurement (P-1) (\$ in Millions) | 1,462.090 | 265.290 | 513.858 | 847.212 | - | 847.212 | 903.648 | 938.202 | 910.545 | 906.095 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,462.090 | 265.290 | 513.858 | 847.212 | - | 847.212 | 903.648 | 938.202 | 910.545 | 906.095 | 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) | 3,322.932 | 3,235.244 | 3,593.413 | 5,501.377 | - | 5,501.377 | 6,105.730 | 6,339.203 | 6,412.289 | 6,380.951 | Continuing | Continuing |

## Description:











 hulls to the DVH. DVH A1 will have a new requirements contract for FY20-25. Configurations of Stryker DVH A1 ECP vehicles are:

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

## 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:
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: 0203735A

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

 location, and communications functionality. Targets will be transmitted instantly to the fire support system and shooter.
 proofing of subsurface mines, and smoke generation for local protection.

 reinforces the brigade reconnaissance squadron, and provides long-range direct fire.
 contact with the indirect fire team over extended distances. Procurement begins in FY22.

 ECP platform and the integrated 30MM Mission Equipment Package (MEP).

 vehicle engagement capabilities of the Army's Stryker Brigade Combat Teams (SBCTs).


 Pack Part Task Trainers (FUPP PTTs), Mortar Carrier Hands-On Trainers (MC HOTs), and Mobile Gun System Hands-On Trainers (HOTs).

Retrofit Planning and Site Management to support fleet-wide retrofits for the Stryker Family of Vehicles (FOV).
Test Fleet Maintenance which maintains the Stryker test fleet, to include contractor repair labor and operations of Stryker repair parts warehouses located at the Army's test centers.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 82 | 143 | 154 | - | 154 | 148 | 119 | 41 | 40 |
|  | Total Obligation Authority | 265.290 | 513.858 | 847.212 | - | 847.212 | 903.648 | 754.366 | 262.904 | 205.931 |
| ANG | Quantity | - | - | - | - | - | - | 29 | 101 | 102 |
|  | Total Obligation Authority | - | - | - | - | - | - | 183.836 | 647.641 | 700.164 |
| Total: Secondary Distribution | Quantity | 82 | 143 | 154 | - | 154 | 148 | 148 | 142 | 142 |
|  | Total Obligation Authority | 265.290 | 513.858 | 847.212 | - | 847.212 | 903.648 | 938.202 | 910.545 | 906.095 |

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

## 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: 0203735A |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G85200 / Stryker Upgrade | P-5a, P-21 | A |  | 440 / 1,462.090 | $82 / 265.290$ | 143/513.858 | $154 / 847.212$ | - 1 - | 154 / 847.212 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 440 / 1,462.090 | $82 / 265.290$ | $143 / 513.858$ | $154 / 847.212$ | - 1 - | 154/847.212 |

*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 funds in (Mod) 0230GM0100, are realigned to Stryker Upgrade, 0363G85200, starting in FY 2021.
FY 2021 Base procurement dollars in the amount of $\$ 847.212$ million supports the following:
 DVH A1 ECP fleet will be able to host the future network while maintaining protection and mobility characteristics.

The 42 DVH A1 30mm Lethality Vehicles will incorporate a DVH A1 platform with the 30mm Lethality Mission Equipment Package (MEP).

 Vehicle (FSV) MEP. Modifications will be conducted by field modification teams, subject to vehicle/hardware availability.

Retrofit Planning and Site Management: Retrofit planning, kit material handling, and retrofit site management to support fleet-wide retrofits of the Stryker FoV.

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

 supporting infantry assault, and address obsolescence within the targeting and reconnaissance systems utilized on the Stryker Family of Vehicle (FoV).

 results.
 System (IVAS) and improved power solution efforts.

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 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity

## 2033A / 01 / 20

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

Date: February 2020
Item Number / Title [DODIC]:
G85200 / Stryker Upgrade


Exhibit P-5, Cost Analysis: PB 2021 Army
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20
ID Code (A=Service Ready, B=Not Service Ready) : A Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding

|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Government Furnished Equipment (GFE) | - | - | 22.469 | - | - | 2.462 | - | - | 0.836 | - | - | 0.320 | - | - | - | . | - | 0.320 |
| Subtotal: Recurring Cost | - | - | 1,293.686 | - | - | 238.297 | - | - | 447.699 | - | - | 645.283 | - | - | - | - | - | 645.283 |
| Subtotal: Flyaway Cost | - | - | 1,293.686 | - | - | 238.297 | - | - | 447.699 | - | - | 645.283 | - | - | - | - | - | 645.283 |
| Hardware Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fleet Modifications | - | - | - | - | - | - | - | - | - | - | - | 1.319 | - | - | - | - | - | 1.319 |
| CROWS-J ECP | - | - | - | - | - | - | - | - | - | - | - | 39.160 | - | - | - | - | - | 39.160 |
| ATGM ECP | - | - | - | - | - | - | - | - | - | - | - | 26.908 | - | - | - | - | - | 26.908 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 67.387 | - | - | - | - | - | 67.387 |
| Subtotal: Hardware Cost | - | - | - | - | - | - | - | - | - | - | - | 67.387 | - | - | - | - | - | 67.387 |
| Package Fielding Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| System Fielding <br> Support - DVH A1 | - | - | 63.144 | - | - | 6.905 | - | - | 31.627 | - | - | 35.145 | - | - | - | - | - | 35.145 |
| Subtotal: Recurring Cost | - | - | 63.144 | - | - | 6.905 | - | - | 31.627 | - | - | 35.145 | - | - | - | - | - | 35.145 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Authorized Stockage List - DVH A1 | - | - | 61.567 | - | - | 10.020 | - | - | 18.220 | - | - | 37.835 | - | - | - | - | - | 37.835 |
| Subtotal: Non Recurring Cost | - | - | 61.567 | - | - | 10.020 | - | - | 18.220 | - | - | 37.835 | - | - | - | - | - | 37.835 |
| Subtotal: Package Fielding Cost | - | - | 124.711 | - | - | 16.925 | - | - | 49.847 | - | - | 72.980 | - | - | - | - | - | 72.980 |

Logistics Cost
Recurring Cos

| Retrofit Planning and Site Management | - | - | - | - | - | - | - | - | - | - | - | 8.973 | - | - | - | - | - | 8.973 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 8.973 | - | - | - | - | - | 8.973 |
| Subtotal: Logistics Cost | - | - | - | - | - | - | - | - | - | - | - | 8.973 | - | - | - | - | - | 8.973 |
| Support - Support Equipment Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maintenance Equipment | - | - | 2.137 | - | - | - | - | - | 0.321 | - | - | 1.798 | - | - | - | - | - | 1.798 |
| Subtotal: Support - Support Equipment Cost | - | - | 2.137 | - | - | - | - | - | 0.321 | - | - | 1.798 | - | - | - | - | - | 1.798 |
| Support - System Engineering Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| System Engineering | - | - | 41.556 | - | - | 10.068 | - | - | 15.991 | - | - | 17.301 | - | - | - | - | - | 17.301 |
| Subtotal: Support - System Engineering Cost | - | - | 41.556 | - | - | 10.068 | - | - | 15.991 | - | - | 17.301 | - | - | - | - | - | 17.301 |

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

| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | 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 | $\underset{\text { (Each) }}{\text { Qty }}$ | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| DVH A1 ECP Infantry Carrier Vehicle ${ }^{(\dagger)}$ |  | 2017 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2018 | Apr 2019 | 30 | 2,894.000 | Y |  |  |
| DVH A1 ECP Infantry Carrier Vehicle ${ }^{(\dagger)}$ |  | 2017 | GM GDLS Defense Group L.L.C. / Shelby Twp | SS/FFP | TACOM | Aug 2017 | Aug 2018 | 34 | 2,894.000 | Y |  |  |
| DVH A1 ECP Infantry Carrier Vehicle ${ }^{(\dagger)}$ |  | 2018 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Jun 2018 | Jul 2019 | 134 | 2,514.157 | Y |  |  |
| DVH A1 ECP Infantry Carrier Vehicle ${ }^{(\dagger)}$ |  | 2019 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Oct 2018 | Oct 2020 | 49 | 2,520.449 | Y |  |  |
| DVH A1 ECP Infantry Carrier Vehicle ${ }^{(\dagger)}$ |  | 2020 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2020 | May 2021 | 114 | 2,836.105 | Y |  |  |
| DVH A1 ECP Infantry Carrier Vehicle ${ }^{(\dagger)}$ |  | 2021 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2021 | May 2022 | 51 | 2,880.725 | Y |  |  |
| DVH A1 ECP Anti-Tank Guided Missile $\operatorname{Veh}^{(+)}$ |  | 2017 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FFP | TACOM | Aug 2017 | Feb 2019 | 5 | 3,162.800 | Y |  |  |
| DVH A1 ECP Anti-Tank Guided Missile Veh $^{(\dagger)}$ |  | 2018 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Jun 2018 | Feb 2020 | 3 | 4,384.333 | Y |  |  |
| DVH A1 ECP Anti-Tank Guided Missile Veh $^{(\dagger)}$ |  | 2021 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2021 | Jan 2023 | 7 | 3,078.286 | Y |  |  |
| DVH A1 ECP Mortar Carrier Vehicle ${ }^{(\dagger)}$ |  | 2017 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FFP | TACOM | Aug 2017 | Jan 2019 | 6 | 3,245.000 | Y |  |  |
| DVH A1 ECP Mortar Carrier Vehicle ${ }^{(\dagger)}$ |  | 2018 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Jun 2018 | Dec 2019 | 21 | 2,936.524 | Y |  |  |
| DVH A1 ECP Mortar Carrier Vehicle ${ }^{(\dagger)}$ |  | 2019 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Oct 2018 | Jan 2021 | 16 | 2,715.375 | Y |  |  |
| DVH A1 ECP Mortar Carrier Vehicle ${ }^{(\dagger)}$ |  | 2020 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2020 | Nov 2021 | 11 | 3,107.636 | Y |  |  |
| DVH A1 ECP Mortar Carrier Vehicle ${ }^{(\dagger)}$ |  | 2021 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2021 | Feb 2023 | 10 | 3,154.700 | Y |  |  |
| DVH A1 ECP Fire Support Vehicle ${ }^{(\dagger)}$ |  | 2017 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FFP | TACOM | Aug 2017 | Jan 2019 | 8 | 3,166.130 | Y |  |  |
| DVH A1 ECP Fire Support Vehicle ${ }^{(\dagger)}$ |  | 2018 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Jun 2018 | Jan 2020 | 8 | 3,109.250 | Y |  |  |
| DVH A1 ECP Fire Support Vehicle ${ }^{(\dagger)}$ |  | 2021 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2021 | May 2022 | 7 | 3,060.143 | N |  |  |

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | 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 |
| DVH A1 ECP Engineer Squad Vehicle ${ }^{(\dagger)}$ |  | 2017 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FFP | TACOM | Aug 2017 | Nov 2018 | 7 | 3,080.860 | Y |  |  |
| DVH A1 ECP Engineer Squad Vehicle ${ }^{(\dagger)}$ |  | 2018 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Jun 2018 | Nov 2019 | 4 | 4,012.000 | Y |  |  |
| DVH A1 ECP Engineer Squad Vehicle ${ }^{(\dagger)}$ |  | 2021 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2021 | Jun 2022 | 10 | 3,113.800 | N |  |  |
| DVH A1 ECP Commander's Vehicle ${ }^{(\dagger)}$ |  | 2017 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FFP | TACOM | Aug 2017 | Sep 2018 | 10 | 3,229.500 | Y |  |  |
| DVH A1 ECP Commander's Vehicle ${ }^{(\dagger)}$ |  | 2018 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Jun 2018 | Oct 2019 | 14 | 2,968.500 | Y |  |  |
| DVH A1 ECP Commander's Vehicle ${ }^{(\dagger)}$ |  | 2019 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Oct 2018 | Apr 2020 | 12 | 3,040.833 | Y |  |  |
| DVH A1 ECP Commander's Vehicle ${ }^{(\dagger)}$ |  | 2020 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2020 | May 2021 | 18 | 3,017.889 | Y |  |  |
| DVH A1 ECP Commander's Vehicle ${ }^{(\dagger)}$ |  | 2021 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2021 | Sep 2022 | 5 | 3,194.800 | Y |  |  |
| DVH A1 ECP Medical Evacuation Vehicle ${ }^{(\dagger)}$ |  | 2018 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Jun 2018 | Jun 2019 | 23 | 2,871.522 | Y |  |  |
| DVH A1 ECP Medical Evacuation Vehicle ${ }^{(\dagger)}$ |  | 2019 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Oct 2018 | Jul 2020 | 5 | 2,833.600 | N |  |  |
| DVH A1 ECP Medical Evacuation Vehicle ${ }^{(\dagger)}$ |  | 2021 | GM GDLS Defense Group L.L.C. / Shelby Township | SS/FPIF | TACOM | Mar 2021 | Aug 2022 | 22 | 3,057.636 | Y |  |  |
| DVH A1 30Mm Lethality Vehicle ${ }^{(\dagger)}$ |  | 2021 | TBD / TBD | SS / Various | TACOM | Mar 2021 | Nov 2022 | 42 | 6,497.214 | Y |  |  |

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

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Exhibit P-21, Production Schedule: PB 2021 Army
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20

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

Date: February 2020

## Item Number / Title [DODIC]:

G85200 / Stryker Upgrade

| MFR Ref \# | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | GM GDLS Defense Group L.L.C. - Shelby Township | 10 | 40 | 60 | 12 | 12 | 11 | 23 | 6 | 2 | 11 | 13 |
| 2 | GM GDLS Defense Group L.L.C. - Shelby Twp | 10 | 40 | 60 | 12 | 12 | 13 | 25 | 6 | 2 | 11 | 13 |
| 3 | GM GDLS Defense Group L.L.C. - Shelby Township | 10 | 40 | 60 | 12 | 12 | 11 | 23 | 6 | 2 | 11 | 13 |
| 4 | GM GDLS Defense Group L.L.C. - Shelby Township | 10 | 40 | 60 | 12 | 12 | 11 | 23 | 6 | 2 | 11 | 13 |
| 5 | GM GDLS Defense Group L.L.C. - Shelby Township | 10 | 40 | 60 | 12 | 12 | 11 | 23 | 6 | 2 | 11 | 13 |
| 6 | GM GDLS Defense Group L.L.C. - Shelby Township | 10 | 40 | 60 | 12 | 12 | 11 | 23 | 6 | 2 | 11 | 13 |
| 7 | GM GDLS Defense Group <br> L.L.C. - Shelby Township | 10 | 40 | 60 | 12 | 12 | 11 | 23 | 6 | 2 | 11 | 13 |
| 8 | GM GDLS Defense Group L.L.C. - Shelby Township | 10 | 40 | 60 | 12 | 12 | 11 | 23 | 6 | 2 | 11 | 13 |
| 9 | TBD - TBD | 10 | 40 | 60 | 12 | 5 | 20 | 25 | 6 | 2 | 15 | 17 |

## Remarks:

Lead time for Stryker DVH A1 variants is 11-13 months.
Lead time for FY21 DVH A1 30 mm Lethality is 20 months due to synchronization of the DVH A1 platform and 30 mm Mission Equipment Package integration.*****
"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 2021 Army
Date: February 2020

## 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)

Other Related Program Elements: 0203735A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 5,954.388 | 514.424 | 415.740 | 493.109 | - | 493.109 | 467.648 | 261.313 | 54.993 | 30.562 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 5,954.388 | 514.424 | 415.740 | 493.109 | - | 493.109 | 467.648 | 261.313 | 54.993 | 30.562 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 5,954.388 | 514.424 | 415.740 | 493.109 | - | 493.109 | 467.648 | 261.313 | 54.993 | 30.562 | 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) | 29,477.168 | 5,653.011 | 3,247.969 | 6,945.197 | - | 6,945.197 | 5,773.432 | 4,355.217 | - | - | Continuing | Continuing |

## Description:

Bradley Program (MOD) procures upgrades to the Bradley Fighting Vehicle. There are two ECPs in this program: Track and Suspension (formerly ECP 1) and the A4 Mobility ECP (formerly ECP 2 ). The Track and Suspension ECP improves the vehicle fleet's suspension increasing underbelly clearance and provides extended life track. The A4 Mobility ECP addresses space, weight, and power-cooling issues with an improved powertrain and electrical system. The A4 Mobility ECP also enables the Bradley to host inbound technologies from other Army Programs of Record, such as, but not limited to the Integrated Tactical Network (ITN) and support for the Individual Visual Augmentation System (IVAS). The Bradley M2A4 and M7A4 Vehicles are the combination of the A3 or ODS-SA Base Vehicle with ECP 1 and A4 components installed and integrated. Additionally, the Bradley Program (MOD) procures underbelly armor kits, upgraded training systems, and other upgrades, including but not limited to high priority improvements, modification kits for other Army programs such as the ITN and IVAS, and obsolescence mitigation.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 495.424 | 415.740 | 493.109 | - | 493.109 | 467.648 | 261.313 | 54.993 | 30.562 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 19.000 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 514.424 | 415.740 | 493.109 | - | 493.109 | 467.648 | 261.313 | 54.993 | 30.562 |

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

## 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: 1678GZ2400 / Bradley Program (MOD)
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: 0203735A |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <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 |  | - 15,954.388 | - 1514.424 | - 1415.740 | - /493.109 | - 1 - | - $/ 493.109$ |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 5,954.388 | - / 514.424 | - $/ 415.740$ | - /493.109 | - 1 - | - $/ 493.109$ |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Co } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <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 |  | - / 467.648 | - /261.313 | - / 54.993 | - / 30.562 | Continuing | Continuing |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 467.648 | - 1261.313 | - 154.993 | - $/ 30.562$ | 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:


 indicate the Bradley Fighting Vehicle and the Bradley Fire Support Vehicle will remain in the ABCT formation until the 2050s.
 updated to reflect the realignments.

MOD 10 (Survivability Enhancements) decrease from FY 2020 to FY 2021 is due to the elimination of production and fielding of Active Production System (APS) to EDI.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-3a, Individual Modification: PB 2021 Army

| Appropriation / Budget Activity 2033A / 01 / 20 | udget S | Activity | P-1 Line Item Number / Title: <br> 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Millions) | 5,954.388 | 514.424 | 415.740 | 493.109 | - | 493.109 | 467.648 | 261.313 | 54.993 | 30.562 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |
| Net Procurement (P-1) (\$ in Millions) | 5,954.388 | 514.424 | 415.740 | 493.109 | - | 493.109 | 467.648 | 261.313 | 54.993 | 30.562 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 5,954.388 | 514.424 | 415.740 | 493.109 | $\bullet$ | 493.109 | 467.648 | 261.313 | 54.993 | 30.562 | 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) | 29,477.168 | 5,653.011 | 3,247.969 | 6,945.197 | - | 6,945.197 | 5,773.432 | 4,355.217 | - | - | Continuing | Continuing |

## Description:


 integrated logistics products.
 are required to remain current with upgraded fleet configuration/capabilities.

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

 for the prime hardware contracts.

 resulting in an M2A4 / M7A4. Costs associated with kit installations are included in the funding for the prime hardware contracts.
 the system survivability of the Bradley Fighting Vehicle against various threats.

MOD 11 (Other) - Administratively captures Congressional actions.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 495.424 | 415.740 | 493.109 | - | 493.109 | 467.648 | 261.313 | 54.993 | 30.562 |

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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, $\mathrm{B}=$ Not Service Ready) : A |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 19.000 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 514.424 | 415.740 | 493.109 | - | 493.109 | 467.648 | 261.313 | 54.993 | 30.562 |

Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity:

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

Date: February 2020

## Modification Number / Title:

GZ2400 / Bradley Program (MOD)

Models of Systems Affected: M2 \& M3 Bradley Vehicle Variants
Vehicle Variants

| Financial Plan | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 11: 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 | 1 - | 1 | 1 | 1 | - 1 | 1 | 1 | 1 | 1 | 2,676/765.100 |
| Subtotal: Bradley Reactive Armor | 2,676/765.100 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2,676/765.100 |

Modification Item 2 of 11: BFVS High Priority Improvements

## A Kits

| Recurring |
| :---: |
| CMED Driver Vision Upgrade |
| Reset Mods |
| INU/Talon |
| Heat Abatement/Cargo Hatch |
| High Priority Mods |
| Urban Survivability Mods |
| Subtotal: Recurring |
| Subtotal: BFVS High Priority Improvements |

Modification Item 3 of 11: Training Equipment Devices

| A Kits |
| :---: |
| Recurring |


| Training Equipment |
| :---: |
| Subtotal: Recurring |
| Subtotal: Training Equipment Devices |
| Modification Item 4 of 11: ODS Situational Awareness |
| A Kits |
| Recurring |
| ODS Situational Awareness |

Exhibit P-3a, Individual Modification: PB 2021 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)

Date: February 2020

## Modification Number / Title:

GZ2400 / Bradley Program (MOD)

MDAP/MAIS Code:


Modification Type: Increase Performance

| Financial Plan | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Tota |
| IBAS Refresh | - 18.850 | 1 | - 1 - | - I - | 1 |  |
| ODS-SA VEHICLE VERSION IDENTIFICATION | - 112.500 | 1 | 1 | 1 | - 1 |  |
| Subtotal: Recurring | 770/1,220.903 | 1 | 1 | 1 | 1 |  |
| Subtotal: ODS Situational Awareness | 770/1,220.903 | - 1 - | - 1 - | / - | - 1 - |  |

Modification Item 5 of 11: Program/Engineering
Support

| Recurring |  |
| :---: | :---: |
| Government PM support | - / 160.793 |
| Contractor PM Support | - /117.389 |
| Subtotal: Recurring | - /278.182 |
| Subtotal: Program/Engineering Support | - /278.182 |
| Modification Item 6 of 11: BFVS Track and Suspension Upgrade |  |
| A Kits |  |
| Recurring |  |
| BFVS ECP 1 Modification | 1,701/318.941 |
| Subtotal: Recurring | 1,701 / 318.941 |
| Subtotal: BFVS Track and Suspension Upgrade | 1,701 / 318.941 |

Modification Item 7 of 11: BFVS Mobility Modification
A Kits
Recurring

| Recurring |  |
| :---: | :---: |
| BFVS A4 Modification |  |
| Subtotal: Recurring |  |
| Subtotal: BFVS Mobility Modification |  |
| Modification Item 8 of 11: Conversion to M2 |  |


| $202 / 551.011$ | $10 / 64.308$ | $80 / 273.961$ | $73 / 307.075$ | $-/-$ | $73 / 307.075$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $202 / 551.011$ | $10 / 64.308$ | $80 / 273.961$ | $73 / 307.075$ | $-/-$ | $73 / 307.075$ |  |
| $202 / 551.011$ | $10 / 64.308$ | $80 / 273.961$ | $73 / 307.075$ | $-/-$ | $73 / 307.075$ |  |


| $66 / 292.355$ |  |
| :--- | :--- |
| $66 / 292.355$ |  |
| $66 / 292.355$ |  |


| $45 / 206.970$ | $-/ 21.594$ | $-/-$ | $-/-$ | $476 / 1,717.274$ |
| :---: | :---: | :---: | :---: | :---: |
| $45 / 206.970$ | $-/ 21.594$ | $-/-$ | $-/-$ | $476 / 1,717.274$ |
| $45 / 206.970$ | $-/ 21.594$ | $-/-$ | $-/-$ | $476 / 1,717.274$ |


| 195/132.245 |  | 1 - |  | 1 - |  | 1 - |  | 1 - |  | 1 - |  | 1 - |  | 1 - |  | 1 - |  | 1 - |  | 1 - | 195/132.245 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.942 | - | 1 - |  | 1 | - | 1 |  | 1 - |  | 1 | - | 1 | - | 1 - |  | 1 |  | 1 |  | 1 - | - 15.942 |
| 195/138.187 | - | / - |  | / | - | / - |  | / - |  | 1 |  | 1 |  | 1 | - | / - |  | 1 |  | 1 | 195/138.187 |

Exhibit P-3a, Individual Modification: PB 2021 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)

Date: February 2020

## Modification Number / Title:

GZ2400 / Bradley Program (MOD)

MDAP/MAIS Code:


Modification Type: Increase Performance

| ars | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| ${ }^{\prime}\left(\begin{array}{l} 1 \end{array}\right.$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I | Qty (Each) I |
|  |  |  | Total Cost (\$ M) |
| 7 | - 1 | - / | - $/$ |


| FY 2021 |
| :---: | :---: |
| OCO |$|$





|  |  |
| :--- | ---: |
| 2023 | FY 2024 |
| Each) I | Qty (Ea |
| ost (\$ M) | Total Cos |
| $-/-$ | - |



|  |  |
| :---: | :---: |
| FY 2025 | Co |
| Qty (Each) I <br> Total Cost (\$ M) | Qota |
| $-1-$ |  |

To Complete

Total \begin{tabular}{l|l}
Qty (Each) I \& Qty (Each) I <br>
\hline

 

$\begin{array}{c}\text { Qty (Each) } \\
\text { otal Cost (\$ M) }\end{array}$ \& Qty (Eal Cost (\$ M) <br>
\hline
\end{tabular} - $/$ - $195 / 138.187$

Modification Item 9 of 11: Braking Safety/
Transmission Industrial Base

| A Kits |
| :---: |
| Recurring |
| Transmissio |

Transmission
Subtotal: Recurring
Subtotal: Braking Safety/Transmission Industrial Base
Modification Item 10 of 11: Survivability
Enhancements

## B Kits

| 266 / 87.834 | - 1- | 1 - | 1 - | - 1 - | - 1- | 1 - | 1 - | - 1- | 1 - |  | - | 266/87.834 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 266/87.834 | / - | - 1- | - 1 - | - / - | - / - | - / - | - 1 - | - / - | / - |  | / - | 266/87.834 |
| 266/87.834 | 1 | 1 | / | 1 | - 1 | 1 | / | - 1 | 1 |  | / - | 266/87.834 |


| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Underbelly Interium Solution (UBIS) | 1 - | 1 - | 1 | 276/40.000 | 1 - | 276/40.000 | - 1 - | - 1 - | - 1- | 1 - | 1 | $276 / 40.000$ |
| Subtotal: Recurring | 1 | 1 | - / - | 276/40.000 | / - | 276/40.000 | 1 | - 1 | - 1 - | 1 | 1 | 276/40.000 |
| Subtotal: Survivability Enhancements | 1 | 1 | - / - | 276/40.000 | 1 | 276/40.000 | / | / | / | / | / | 276/40.000 |
| Modification Item 11 of 11: Other |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Rescissions | - 131.775 | - 1317.070 | 1 | - 1- | 1 | - 1 | - 1 | - 1- | - 1 - | 1 - | 1 | - 1348.845 |
| Subtotal: Non-Recurring | 131.775 | - /317.070 | - 1 - | 1 | 1 | - 1 | 1 | 1 | 1 | 1 | 1 | - $/ 348.845$ |
| Subtotal: Other | - /31.775 | - /317.070 | / - | - / - | 1 | - / - | - / - | - 1 | - / - | - / - | / - | - $/ 348.845$ |
| Subtotal: Procurement, All Modification Items | $\begin{array}{r} 15,494 / \\ 5,954.388 \end{array}$ | 424/514.424 | 494/415.740 | 763/493.109 | / - | 763/493.109 | 467/467.648 | 45/261.313 | - /54.993 | - /30.562 | Continuing | Continuing |


| Installation |
| :--- |
| Modification Item 6 of 11: BFVS Track and Suspension <br> Upgrade |
| Modification Item $\mathbf{7}$ of 11: BFVS Mobility Modification |
| Modification Item 8 of 11: Conversion to M2 |
| Modification Item 10 of 11: Survivability Enhancements |
| Subtotal: Installation |
| Total |

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 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: |  |  |  |
| Modification Item 1 of 11: Bradley Reactive Armor |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |
| Manufacturer Name: GDATP |  | Manufacturer Location: Burlington, VT |  |  |  |
| Administrative Leadtime (in Months): |  | Production Leadtime (in Months): |  |  |  |
|  | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |
|  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |
| Method of Implementation (Organic): Contractor |  |  | Installation Quantity: 0 |  |  |

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 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: |  |  |  |
| Modification Item 4 of 11: ODS Situational Awareness |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |
| Manufacturer Name: BAE |  | Manufacturer Location: YORK, PA |  |  |  |
| Administrative Leadtime (in Months): |  | Production Leadtime (in Months): |  |  |  |
|  | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |
|  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |
| Method of Implementation (Organic): Contractor |  |  | Installation Quantity: 0 |  |  |

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Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 6 of 11: 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 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Jun 2019 | Dec 2019 | Dec 2020 | Dec 2021 |  |  |  |
| Delivery Dates | Dec 2019 | Jan 2021 | Jan 2022 | Jan 2023 |  |  |  |

## Installation Information

Method of Implementation: Contractor

| Installation Cost | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <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 <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 1,701/0.000 | 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 | 1 | 1 | - 1 - | 1 | 1,701/0.000 |
| FY 2019 | 1 - | $414 / 0.000$ | 1 - | 1 | 1 - | 1 - | 1 | 1 | 1 | - 1 - | 1 | $414 / 0.000$ |
| FY 2020 | - 1 - | 1 - | $414 / 0.000$ | 1 | 1 - | 1 - | 1 | 1 | 1 | - 1- | 1 | $414 / 0.000$ |
| FY 2021 | - 1- | 1 | 1 | $414 / 0.000$ | 1 | 414/0.000 | 1 | - 1 - | 1 | - 1 - | - 1 | $414 / 0.000$ |
| FY 2022 | - 1 - | 1 - | 1 | 1 - | - 1 - | - 1 - | 401/0.000 | 1 | 1 - | 1- | -1 | $401 / 0.000$ |
| FY 2023 | - 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1- | 1 - | - 1 - | - 1- | - 1 - |
| FY 2024 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | 1 - | - 1 - | - 1- | - 1 - |
| FY 2025 | - 1 - | 1 | 1 | - 1 - | - 1- | - 1- | 1 | 1 - | 1 - | - 1- | - 1 | -1 |
| To Complete | - 1- | - 1- | 1 - | 1 - | - 1- | - 1- | 1- | 1 | 1 | 1 - | - 1 | 1 |
| Total | 1,701/0.000 | $414 / 0.000$ | $414 / 0.000$ | 414/0.000 | - 1- | 414/0.000 | 401/0.000 | 1 | 1 - | 1 - | 1 | 3,344/0.000 |

Installation Schedule

|  | PYS | FY 2019 |  |  |  | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | 1,701 | - | - | 396 | - | 432 | - | - | - | 414 | - | - | - | 401 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3,344 |
| Out | 1,080 | 87 | 86 | 103 | 69 | 87 | 86 | 104 | 104 | 103 | 103 | 103 | 104 | 104 | 103 | 103 | 104 | 104 | 103 | 103 | 100 | 100 | 100 | 101 | - | - | - | - | - | - | 3,344 |

Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 7 of 11: BFVS Mobility Modification

## Manufacturer Information

| Manufacturer Name: BAE |  |  |  | Manufacturer Location: York, PA |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 5 |  |  |  | Production Leadtime (in Months): 11 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Apr 2020 | Apr 2020 | Apr 2021 | Mar 2022 | Apr 2023 |  |  |
| Delivery Dates | Jul 2021 | Dec 2021 | Jun 2022 | Jan 2023 | Oct 2023 |  |  |


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


|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | - 1 - | 1 - | 85/0.000 | $117 / 0.000$ | 1 - | $117 / 0.000$ | - 1 - | - 1 - | - 1 - | - 1 | 1 | $202 / 0.000$ |
| FY 2019 | 1 - | 1 - | - 1 - | 10/0.000 | 1 - | 10/0.000 | 1 | - 1 | - 1 | - 1 | 1 | 10/0.000 |
| FY 2020 | 1 | 1 - | - 1 - | - 1 - | 1 | 1 | $80 / 0.000$ | 1 - | - 1 | - 1 | 1 | $80 / 0.000$ |
| FY 2021 | 1 | 1 - | - 1 - | - 1- | 1 | 1 | $44 / 0.000$ | 29/0.000 | - 1 | - 1 | 1 | 73/0.000 |
| FY 2022 | 1 - | 1 - | - 1 - | - 1 - | 1 | 1 | - 1 - | $66 / 0.000$ | - 1 - | - 1 | 1 | $66 / 0.000$ |
| FY 2023 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 | 1 | - 1 - | 45/0.000 | -1 | 1 | $45 / 0.000$ |
| FY 2024 | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - |
| FY 2025 | 1 - | - 1 - | - 1 - | - 1- | 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 |
| To Complete | 1 - | 1 - | - 1- | - 1- | 1 - | 1 - | - 1- | - 1- | - 1- | - 1- | 1 - | 1 - |
| Total | - 1- | 1 - | 85/0.000 | $127 / 0.000$ | - 1- | $127 / 0.000$ | 124/0.000 | 95/0.000 | 45/0.000 | - 1- | - 1- | 476/0.000 |

Installation Schedule

|  | PYS | FY 2019 |  |  |  | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | - | - | 28 | 28 | 29 | 32 | 32 | 32 | 31 | 31 | 31 | 31 | 31 | 24 | 24 | 24 | 23 | 23 | 22 | - | - | - | - | - | - | - | - | - | - | - | 476 |
| Out | - | - | - | - | - | - | 28 | 28 | 29 | 32 | 32 | 32 | 31 | 31 | 31 | 31 | 31 | 24 | 24 | 24 | 23 | 23 | 22 | - | - | - | - | - | - | - | 476 |

## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 8 of 11: Conversion to M2

## Manufacturer Information

| Manufacturer Name: BAE |  |  |  | Manufacturer Location: YORK, PA |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  |  |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |


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

Method of Implementation: Contractor

|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | 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 <br> 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 2019 | 1 - | 1 - | - 1 - | 1 - | 1 - | 1 | 1 - | 1 - | - 1 | 1 | 1 | - 1 |
| FY 2020 | 1 | 1 - | - 1- | 1 - | 1 | 1 | 1 | 1 - | - 1 | 1 | 1 | - 1 - |
| FY 2021 | 1 | 1 - | - 1- | 1 - | 1 | 1 | 1 | 1 - | -1 | 1 | - 1 - | - 1 - |
| FY 2022 | 1 - | 1 - | - 1- | - 1- | 1 - | 1 | 1 - | 1 - | - 1- | - 1- | 1 - | - 1 - |
| FY 2023 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 |
| FY 2024 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 |
| FY 2025 | 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

|  |  | FY 2019 |  |  |  | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PYS | 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 |

UNCLASSIFIED


## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 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)

Date: February 2020

## Modification Number / Title:

GZ2400 / Bradley Program (MOD)

Modification Item 10 of 11: Survivability Enhancements


UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: |  |  |  |
| Modification Item 11 of 11: Other |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: N/A |  |  |  | Manufacturer Location: N/A |  |  |  |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  |  |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Rescissions |  |  |  |  | Installat | ntity: 0 |  |

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

## 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

Other Related Program Elements: 0604854A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 2,119.814 | 26.482 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 | - | 2,814.767 |
| Less PY Advance Procurement (\$ in Millions) | 16.321 | - | - | - | - | - | - | - | - | - | - | 16.321 |
| Net Procurement (P-1) (\$ in Millions) | 2,103.493 | 26.482 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 | - | 2,798.446 |
| Plus CY Advance Procurement (\$ in Millions) | 16.321 | - | - | - | - | - | - | - | - | - | - | 16.321 |
| Total Obligation Authority (\$ in Millions) | 2,119.814 | 26.482 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 | - | 2,814.767 |

(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 M109 Family of Vehicles (FOV) Modifications line consists of the M109A6 Paladin Self-Propelled Howitzer (SPH) and the M992A2 Field Artillery Ammunition Supply Vehicle (FAASV), the M109A7 SPH and M992A3 Carrier, Ammunition, Tracked (CAT) as well as the Extended Range Cannon Artillery (ERCA) capability for the Self Propelled family of Howitzers. The funding profile provides for the engineering design, testing, HW procurement, and application in support of improvements to resolve problems identified in the field and approved by the Materiel Developer and Combat Developer for fielded M109 family of vehicles (FOV). These improvements address maintaining operational readiness rates, improving vehicle safety and operation, and integrate new equipment. Funding also supports production of ERCA (XM1299) and all aspects of program management necessary to support the field fleet of 689 SPHs and 689 FAASVs/CATs in 16 Active Duty Army and National Guard Battalions organic to Armored Brigade Combat Team (ABCT); 10 Battalions organic to Army Fires Brigades; 3 Rotational unit sets; 4 Army Prepositioned Stock sets; 2 Institutional Training Sites, 2 Combat Training Centers, and other facility vehicles for System Technical Support (STS) work for development and qualification of proposed engineering changes and technical improvements. ECPs will be applied as through a modification work order and procured for the M109 FOV.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 15.889 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 10.593 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 26.482 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 |

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

| 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GA0400 / M109 FOV Modifications (Increase Performance) |  | B |  | - 12,119.814 | - 126.482 | - / 25.756 | - 126.893 | - 1 | - 126.893 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 12,119.814 | - 126.482 | - 125.756 | - 126.893 | 1 | - 126.893 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GA0400 / M109 FOV Modifications (Increase Performance) |  | B |  | - 180.337 | - 1122.886 | - /158.750 | - 1253.849 | - 1 - | - 12,814.767 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 180.337 | - 1122.886 | - /158.750 | - 1253.849 | - 1- | - 12,814.767 |

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

## Justification:








 mission accomplishment.
 defense missions, domestic emergency responses, and providing military support to civil authorities.
 updated to reflect the realignments."

Exhibit P-3a, Individual Modification: PB 2021 Army

| Appropriation / Budget Activity 2033A / 01 / 20 | udget Su | ub Activity | 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 2,119.814 | 26.482 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 | - | 2,814.767 |
| Less PY Advance Procurement (\$ in Millions) | 16.321 | - | - | - | - | - | - | - | - | - | - | 16.321 |
| Net Procurement (P-1) (\$ in Millions) | 2,103.493 | 26.482 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 | - | 2,798.446 |
| Plus CY Advance Procurement (\$ in Millions) | 16.321 | - | - | - | - | - | - | - | - | - | - | 16.321 |
| Total Obligation Authority (\$ in Millions) | 2,119.814 | 26.482 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 | - | 2,814.767 |
| (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 FOV Program Office [MOD 1]: Government System Engineering and Program Management support for the M109 FOV program. Provides oversight of Other Governmental Agencies (OGAs) that provide material support to the system and the fielded units to ensure configuration management; provides the analysis and root cause of safety and non-safety related field failures; provides management of the Army's M109 FOV Combat Vehicle Evaluation (CVE) program; provides quality process management of production for M109 FOV Depot Overhaul operations; provides planning and execution for obsolescence of parts, sub-systems and systems; develop and coordinate shrinking supply base mitigation strategies with item managers; provides management of Software Support. Manages the Systems Technical Support (STS) contract that provides the direct support to the program and the field.

M109 FOV System Technical Support, Contract [MOD 2]: Funding supports contractor engineering efforts required to design and produce material solutions/changes to the M109 FOV fielded systems; provides the logistical support to provision, source, and supply the field with the material solutions/changes. Contractor also updates/corrects all system technical data, provisioning data, technical manuals, and Interactive-Electronic Technical Manuals (IETMs). Contractor provides emergency field support to the Government as required essential for mission accomplishment.

CREW II A-Kit HW and Fielding [MOD 3]: To complete CREW DUKE v2 A-Kits fielding across the remainder of the M109 Family of Vehicles (FOV) fleet. (Complete)
Breech (Phase II) HW and Fielding [MOD 5]: Paladin Breech reliability fixes, as they pertain to the impacts of Modular Artillery Charge System (MACS) propellant on the gun system, is intended to improve the reliability of the current gun systems in fielded Fires Battalions. These fixes improve breech opening and closing when firing High Zone MACS propellant charges in combat and training. (Ongoing)
Gun Mount Ballistic Shield (GMBS) Rotor Shield [MOD 6]: Funding supports survivability shortfalls in the M109 FOV gun mount area. This mod increases the armor protection of the M182 Gun Mount Recoil Mechanism as well as provide additional crew protection for small arms direct fire. (Complete)

Int. Blast Mitigation Retrofit HW/Fielding (M109A7) [MOD 7]: Procures and installs improved floor mat and ammo restraints to prevent those objects from becoming secondary projectiles in an underbody blast event. (Ongoing)

Alternative Transmission and Electrical Fan Integration [MOD 8]: Funding supports continued engineering and characterization analysis, procurement, and competition support activities required to maintain commonality with Bradley IFV. (Complete)

Chief of Section protection (Increment I) HW and Fielding [MOD 9]: Ballistic riser with transparent armor, is intended to improve the situational awareness and personnel survivability when firing the crew-served 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.

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 <br> Modification Number / Title: GA0400 / M109 FOV Modifications |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  | P-1 Line Item Number / Title: 2072GA0400 / M109 FOV Modifications |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |
| ERCA INC 2 (XM1299A1) [MOD 10]: Production of ERCA INC 2, which will improve lethality through several upgrades to rate of fire, mobility, survivability and reliability. <br> Undersponson Retrofit [MOD 11]: Procures and installs updated Threshold 2 undersponson armor panels to replace the existing base vehicle (Threshold 1) undersponson armor panels. <br> Ventilation System Improvement Retrofit [MOD 12]: Procure/retrofit hardware to integrate pre-filtration design that reduces frequency of ventilation system clogging. <br> SPH Crew Compartment AFES Retrofit HW \& Fielding [MOD 13]: Procure/retrofit hardware to expand to full crew compartment coverage from personnel heater coverage. |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OcO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Army | Quantity | - | - | - | - | - | - | - | - |  |
|  | Total Obligation Authority | 15.889 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 10.593 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 26.482 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 |

Exhibit P-3a, Individual Modification: PB 2021 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: February 2020

## 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 13: M109 FOV Program Office |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| PM Support | - /13.151 | - 13.105 | - 10.958 | - 10.978 | 1 - | - 10.978 | - 10.997 | 1 | 1 | 1 | 1 | - /19.189 |
| Subtotal: Recurring | - /13.151 | - /3.105 | - 10.958 | - 10.978 | 1 | - 10.978 | - 10.997 | - 1 | - 1 | - 1 | - 1 | - /19.189 |
| Subtotal: M109 FOV Program Office | /13.151 | /3.105 | 10.958 | 10.978 | - / - | - 10.978 | - 10.997 | 1 | 1 | - / - | - / - | - /19.189 |
| Modification Item 2 of 13: M109 FOV System Technical Support - Contr |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| STS | - 192.101 | - /13.517 | - 112.702 | - 11.748 | 1 - | - 11.748 | 1 - | - 1- | - 1 | - 1 | 1 - | - /120.068 |
| Subtotal: Recurring | - /92.101 | - /13.517 | - /12.702 | - 11.748 | 1 | - $/ 1.748$ | - 1- | - 1 | - 1 | - 1 - | - 1 - | - /120.068 |
| Subtotal: M109 FOV System Technical Support - Contr | - /92.101 | - /13.517 | - /12.702 | - /1.748 | - / - | - /1.748 | - / - | - / - | - / - | - / - | 1 | - /120.068 |
| Modification Item 3 of 13: CREW II A-Kit HW and Fielding (M109A6) |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Kits | - 1 - | 126/4.937 | 1 - | - 1- | - 1 - | - 1- | - 1- | - 1- | - 1 - | - 1 - | - 1 | $126 / 4.937$ |
| Subtotal: Recurring | - 1 - | 126/4.937 | 1 | 1 | 1 | 1 | - 1 | 1 | - 1 | 1 | 1 | 126/4.937 |
| Subtotal: CREW II A-Kit HW and Fielding (M109A6) | 1 | 126/4.937 | / - | / - | / - | 7 | 7 | 1 | 1 | 1 | 1 | 126/4.937 |
| Modification Item 4 of 13: Prior Years Closed Mods |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Closed Mods | - /1,995.885 | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1- | - 1 - | - 1 - | - 1 - | - 1 | - 11,995.885 |
| Subtotal: Recurring | - /1,995.885 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 - | - 1 - | - 1 - | - /1,995.885 |
| Subtotal: Prior Years Closed Mods | - /1,995.885 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - /1,995.885 |

Modification Item 5 of 13: Breech (Phase II) HW and Fielding

Recurring

Exhibit P-3a, Individual Modification: PB 2021 Army

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

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

Date: February 2020

## 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:

|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Qty (Each) I <br> Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> 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 <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) |
| Hardware | 1 - | 1 - | 240/12.096 | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1- | - 1 - | 1 - | 240/12.096 |
| Subtotal: Recurring | 1 | 1 | 240/12.096 | 1 - | 1 - | 1 | 1 - | 1 - | - 1 - | - 1 - | 1 - | 240/12.096 |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware | - 12.320 | - 11.500 | - 1- | - 1- | - 1- | - 1 - | - 1- | - 1- | - 1- | - 1 - | 1 - | - 13.820 |
| Subtotal: Non-Recurring | - 12.320 | - /1.500 | 1 | 1 - | / - | 1 | 1 | / - | - 1 - | - 1 - | - 1 - | - 13.820 |
| Subtotal: Breech (Phase II) HW and Fielding | - /2.320 | /1.500 | 240/12.096 | / - | 1 | 1 | 1 | - / - | - / - | - / - | - / - | 240/15.916 |
| Modification Item 6 of 13: Gun Mount Ballistic Shield (GMBS) and Rotor Shield |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware | - 10.068 | - 10.042 | 1 - | - 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | - 10.110 |
| Subtotal: Non-Recurring | - 10.068 | - 10.042 | 1 | 1 | - 1 - | - 1 - | - 1 - | / - | - 1 - | - / - | - 1 - | - 10.110 |
| Subtotal: Gun Mount Ballistic Shield (GMBS) and Rotor Shield | - 10.068 | - 10.042 | / - | / - | / - | / - | - / - | - / - | - / - | - / - | - / - | - 10.110 |
| Modification Item 7 of 13: Interior Blast Mitigation Retrofit HW/Fielding(M109A7) |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware | - 1 - | - 1 - | - 1- | $180 / 7.272$ | - 1- | $180 / 7.272$ | 108/4.179 | - 1- | - 1- | - 1- | - 1 - | 288/11.451 |
| Subtotal: Recurring | - 1 - | - 1 - | - 1 - | 180/7.272 | - 1 | 180/7.272 | 108/4.179 | - 1 - | - / - | - 1 - | / - | 288/11.451 |
| 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 | - 1 | - 1 | - 1 | - $/ 5.564$ |
| Subtotal: Interior Blast Mitigation Retrofit HW/ Fielding(M109A7) | - /5.564 | 1 | 7 | 180/7.272 | 7 | 180/7.272 | 108/4.179 | 7 | / - | /- | / - | 288/17.015 |
| Modification Item 8 of 13: Alternative Trans and Electrical Fan Integration |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Integration | - 15.825 | - 13.381 | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1 - | - 1 - | - 19.206 |
| Subtotal: Non-Recurring | /5.825 | /3.381 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | / | 1 | - 19.206 |

Exhibit P-3a, Individual Modification: PB 2021 Army

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

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

Date: February 2020

## 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Subtotal: Alternative Trans and Electrical Fan Integration | /5.825 | - /3.381 | 1 - | - $/$ - | - / - | - / - | - / - | - $/$ - | - / - | - / - | - / - | - 19.206 |
| Modification Item 9 of 13: Chief of Section Protection (Inc. I) HW/Fielding |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware | - 14.900 | 1 - | 1 | 9017.445 | 1 | $90 / 7.445$ | 45/2.532 | - 1 | - 1 | - 1 | - 1 | 135/14.877 |
| Subtotal: Non-Recurring | - 14.900 | 1 | 1 | 90/7.445 | 1 | 90/7.445 | 45/2.532 | - / - | - 1 | - 1 | - 1 | 135/14.877 |
| Subtotal: Chief of Section Protection (Inc. I) HW/ Fielding | - /4.900 | 1 | - / - | 90/7.445 | 1 - | 90/7.445 | 45/2.532 | / | - / - | 1 | 1 | 135/14.877 |
| Modification Item 10 of 13: ERCA INC 2 (XM1299A1) |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware | - 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | 8/72.629 | 12/122.886 | 18/158.750 | $30 / 253.849$ | - 1 - | $68 / 608.114$ |
| Subtotal: Recurring | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 8/72.629 | 12/122.886 | 18/158.750 | $30 / 253.849$ | - 1 - | 68/608.114 |
| Subtotal: ERCA INC 2 (XM1299A1) | - / - | - / - | - / - | - 1 - | - / - | - / - | 8/72.629 | 12/122.886 | 18/158.750 | 30/253.849 | - / - | 68/608.114 |

Modification Item 11 of 13: Undersponson Retrofit B Kits

Subtotal: Undersponson Retrofit
Modification Item 12 of 13: Ventilation System

Improvement Retrofit

| B Kits |  |
| :---: | :---: |
| Recurring |  |
| Hardware |  |
| Subtotal: Recurring |  |
| Subtotal: Ventilation System Improvement Retrofit |  |
| Modification Item 13 of 13: SPH Crew Compartment <br> AFES Retrofit HW and Fielding |  |
| B Kits |  |


| - 1- | - 1 - | - 1- | 74/3.150 | - 1- | $74 / 3.150$ | 1 - | - 1 - | - 1- | - 1- | 1 | $74 / 3.150$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - 1 - | / - | 1 | 74/3.150 | 1 | 74/3.150 | / - | 1 | - 1 - | 1 | 1 | 74/3.150 |
| - / - | 1 | 1 | 74/3.150 | / | 74/3.150 | 1 | / |  |  |  | 74/3.150 |

Exhibit P-3a, Individual Modification: PB 2021 Army

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

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

## Date: February 2020

## 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:

| Financial Plan | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware | - 1- | - 1- | 1 - | $90 / 3.330$ | - 1- | $90 / 3.330$ | - 1- | - 1- | - 1- | - 1- | 1 | $90 / 3.330$ |
| Subtotal: Recurring | 1 - | 1 | 1 | $90 / 3.330$ | 1 - | 90/3.330 | 1 | - 1 - | - 1 - | - / - | - / - | $90 / 3.330$ |
| Subtotal: SPH Crew Compartment AFES Retrofit HW and Fielding | - / - | - / - | - / - | 90/3.330 | 1 - | 90/3.330 | - / - | 1 | 1 | / - | / - | 90/3.330 |
| Subtotal: Procurement, All Modification Items | - /2,119.814 | 126/26.482 | 240/25.756 | 584/26.893 | / - | 584/26.893 | 161/80.337 | 12/122.886 | 18/158.750 | 30/253.849 | / - | $\begin{array}{r\|} \hline 1,171 / \\ 2,814.767 \end{array}$ |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 5 of 13: Breech (Phase II) HW and Fielding | 1 - | 1 | 1 - | 2401 - | 1 - | 240 / - | 1 - | 1 - | - 1- | 1 - | I | 2401 - |
| Modification Item 7 of 13: Interior Blast Mitigation Retrofit HW/Fielding(M109A7) | 1 - | 1 - | 1 - | 1 - | 1 - | - 1 - | 180 / - | 108 / - | - 1- | 1 - | 1 - | 288/ - |
| Modification Item 9 of 13: Chief of Section Protection (Inc. I) HW/Fielding | - 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | 901. | 45/ - | - 1 - | - 1 - | 1 - | 135/ - |
| Modification Item 10 of 13: ERCA INC 2 (XM1299A1) | 1 | 1 | 1 | 1 | - 1 | - 1 | - 1 - | 81- | 121 - | 18/ - | 301 - | 681 - |
| Modification Item 11 of 13: Undersponson Retrofit | - 1 | 1 | - 1 | 1 | 1 | -1 | 1501 - | - 1 - | -1 | - 1 | - 1 | 1501 - |
| Modification Item 12 of 13: Ventilation System Improvement Retrofit | 1 | 1 | - 1 | - 1 | - 1 | - 1 | 741 - | - 1 - | 1 - | - 1 - | 1 | 741 - |
| Modification Item 13 of 13: SPH Crew Compartment AFES Retrofit HW and Fielding | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 901. | - 1 - | 1 - | 1 - | 1 - | 901 - |
| Subtotal: Installation | 1 | - 1 | 1 | 240/ - | - / - | 240/ - | 584/ - | 161/ - | 12/ - | 18/ - | 301 - | 1,045 / - |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 2,119.814 | 26.482 | 25.756 | 26.893 | - | 26.893 | 80.337 | 122.886 | 158.750 | 253.849 | - | 2,814.767 |

UNCLASSIFIED


UNCLASSIFIED


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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: |  |  |  |
| Modification Item 3 of 13: CREW II A-Kit HW and Fielding (M109A6) |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| Administrative Leadtime (in Months): 2 |  |  |  | Production Leadtime (in Months): 12 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Dec 2018 |  |  |  |  |  |  |
| Delivery Dates | Dec 2019 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): . |  |  |  |  | Installation Quantity: 0 |  |  |

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: |  |  |  |
| Modification Item 4 of 13: Prior Years Closed Mods |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: x |  |  |  | Manufacturer Location: x |  |  |  |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  |  |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): x |  |  |  |  | Installat | ntity: 0 |  |

## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity

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

Date: February 2020

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

## Modification Number / Title:

GA0400 / M109 FOV Modifications

MDAP/MAIS Code:
Modification Item 5 of 13: Breech (Phase II) HW and Fielding

## Manufacturer Information

| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 2 |  |  |  | Production Leadtime (in Months): 12 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  | Aug 2020 |  |  |  |  |  |
| Delivery Dates |  | Aug 2021 |  |  |  |  |  |

Installation Information

Method of Implementation:

| Installation Cost | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 | 1 | 1 |
| FY 2019 | 1 | 1 - | - 1- | - 1- | 1 - | - 1- | 1 - | - 1- | - 1- | - 1 | 1 | 1 - |
| FY 2020 | 1 | 1 - | - 1 - | $240 / 0.000$ | 1 | $240 / 0.000$ | 1 - | 1 - | - 1 - | - 1- | 1 - | $240 / 0.000$ |
| FY 2021 | 1 - | - 1- | - 1- | - 1- | 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | 1 - | - 1 |
| FY 2022 | 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| FY 2023 | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 - | - 1 |
| FY 2024 | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 - | - 1 |
| FY 2025 | - 1 - | - 1 - | - 1- | - 1- | 1 - | 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | 1 |
| To Complete | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - |
| Total | 1 - | - 1 - | - 1 - | $240 / 0.000$ | 1 - | $240 / 0.000$ | 1 - | - 1 - | - 1 - | - 1 - | - 1 | $240 / 0.000$ |

Installation Schedule

|  | PYS | FY 2019 |  |  |  | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | - | - | - | - | - | - | - | - | - | - | - | - | 59 | 59 | 61 | 61 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 240 |
| Out | - | - | - | - | - | - | - | - | - | - | - | - | 59 | 59 | 61 | 61 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 240 |

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## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity

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

Date: February 2020

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

## Modification Number / Title:

GA0400 / M109 FOV Modifications

MDAP/MAIS Code:
Modification Item 7 of 13: Interior Blast Mitigation Retrofit HW/Fielding(M109A7)

## Manufacturer Information

| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 2 |  |  |  | Production Leadtime (in Months): 12 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  |  | Dec 2020 | Dec 2021 |  |  |  |
| Delivery Dates |  |  | Dec 2021 | Dec 2022 |  |  |  |

Installation Information

```
Method of Implementation:
```

|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | 1 - | 1 - | - 1 - | 1 - | 1 - | 1 - | 1 | - 1 - | - 1 - | 1 | 1 | 1 |
| FY 2019 | 1 - | 1 - | - 1 - | 1 - | 1 - | 1 | 1 | - 1- | - 1 - | 1 | 1 | 1 |
| FY 2020 | 1 | 1 - | - 1 - | 1 - | 1 | 1 | $1-$ | - 1 | - 1 | 1 | 1 | 1 |
| FY 2021 | 1 | 1 - | - 1- | 1 - | 1 | - 1 - | 180/0.000 | 1 | - 1 | 1 | - 1 - | $180 / 0.000$ |
| FY 2022 | 1 - | 1 - | - 1- | - 1- | 1 - | 1 | 1 - | 108/0.000 | - 1- | -1 | 1 | 108/0.000 |
| FY 2023 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - |
| FY 2024 | 1 - | 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 |
| FY 2025 | 1 - | - 1 - | - 1- | - 1- | 1 - | 1 - | 1 | - 1 - | - 1 - | - 1- | 1 | 1 |
| To Complete | 1 - | 1 - | - 1- | - 1- | 1 - | 1 | 1 - | 1 - | - 1 - | - 1- | 1 | 1 |
| Total | - 1- | - 1- | - 1- | - 1- | 1 - | 1 | 180/0.000 | 108/0.000 | 1 - | - 1 | 1 | 288/0.000 |

Installation Schedule

|  | PYS | FY 2019 |  |  |  | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | - | - | - | - | - | - | - | - | - | - | - | - | - | 44 | 44 | 46 | 46 | 26 | 26 | 28 | 28 | - | - | - | - | - | - | - | - | - | 288 |
| Out | - | - | - | - | - | - | - | - | - | - | - | - | - | 44 | 44 | 46 | 46 | 26 | 26 | 28 | 28 | - | - | - | - | - | - | - | - | - | 288 |

UNCLASSIFIED


## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity

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

Date: February 2020

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

## Modification Number / Title:

GA0400 / M109 FOV Modifications

MDAP/MAIS Code:
Modification Item 9 of 13: Chief of Section Protection (Inc. I) HW/Fielding

## Manufacturer Information

| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 2 |  |  |  | Production Leadtime (in Months): 12 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  |  | Dec 2020 | Dec 2021 |  |  |  |
| Delivery Dates |  |  | Dec 2021 | Dec 2022 |  |  |  |

Installation Information
Method of Implementation:

|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | 1 - | 1 - | - 1 - | 1 - | 1 - | 1 - | - 1 | - 1 - | - 1 - | 1 | 1 | 1 |
| FY 2019 | 1 - | 1 - | - 1 - | 1 - | 1 - | 1 | 1 | - 1- | - 1 - | 1 | 1 | 1 |
| FY 2020 | 1 | 1 - | - 1 - | 1 - | 1 | 1 | $1-$ | - 1 | - 1 | 1 | 1 | - 1 - |
| FY 2021 | 1 | 1 - | - 1- | 1 - | 1 | - 1 - | $90 / 0.000$ | 1 | - 1 | 1 | - 1 - | $90 / 0.000$ |
| FY 2022 | 1 - | 1 - | - 1- | - 1- | 1 | 1 | 1 - | 45/0.000 | - 1- | -1 | 1 | 45/0.000 |
| FY 2023 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - |
| FY 2024 | 1 - | 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 |
| FY 2025 | 1 - | - 1 - | - 1- | - 1- | 1 - | 1 - | 1 | - 1 - | - 1 - | - 1- | 1 | 1 |
| To Complete | 1 - | 1 - | - 1- | - 1- | 1 - | 1 | 1 - | 1 - | - 1 - | - 1- | 1 | 1 |
| Total | - 1- | - 1- | - 1- | - 1- | 1 - | 1 | 90/0.000 | 45/0.000 | 1 - | - 1 | 1 | 135/0.000 |

Installation Schedule

|  | PYS | FY 2019 |  |  |  | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | - | - | - | - | - | - | - | - | - | - | - | - | - | 22 | 22 | 23 | 23 | 11 | 11 | 11 | 12 | - | - | - | - | - | - | - | - | - | 135 |
| Out | - | - | - | - | - | - | - | - | - | - | - | - | - | 22 | 22 | 23 | 23 | 11 | 11 | 11 | 12 | - | - | - | - | - | - | - | - | - | 135 |

Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity

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

Modification Item 10 of 13: ERCA INC 2 (XM1299A1)


## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Army
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20
ID Code (A=Service Ready, B=Not Service Ready) : B

Date: February 2020

## 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: Undersponson Retrofit


## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity:

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

Date: February 2020

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

## Modification Number / Title:

GA0400 / M109 FOV Modifications

MDAP/MAIS Code:
Modification Item 12 of 13: Ventilation System Improvement Retrofit


## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 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: February 2020

## Modification Number / Title:

GA0400 / M109 FOV Modifications

MDAP/MAIS Code:
Modification Item 13 of 13: SPH Crew Compartment AFES Retrofit HW and Fielding


## 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)

Other Related Program Elements: 0210609A

Line Item MDAP/MAIS Code: 466

| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 186 | 51 | 48 | 30 | - | 30 | 44 | 43 | 45 | 45 | 197 | 689 |
| Gross/Weapon System Cost (\$ in Millions) | 2,223.600 | 525.902 | 553.425 | 435.825 | - | 435.825 | 603.605 | 591.237 | 618.363 | 619.311 | 3,061.905 | 9,233.173 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 2,223.600 | 525.902 | 553.425 | 435.825 | - | 435.825 | 603.605 | 591.237 | 618.363 | 619.311 | 3,061.905 | 9,233.173 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 2,223.600 | 525.902 | 553.425 | 435.825 | - | 435.825 | 603.605 | 591.237 | 618.363 | 619.311 | 3,061.905 | 9,233.173 |
| (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) | 11,954.839 | 10,311.804 | 11,529.688 | 14,527.500 | - | 14,527.500 | 13,718.295 | 13,749.698 | 13,741.400 | 13,762.467 | 15,542.665 | 13,400.832 |

## Description:







 an appropriate amount of SWaP capacity to add future capabilities, reduce life cycle costs and extend the life of the M109 FOV through FY2050, allowing for a 26 year economic life.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 32 | 26 | 15 | - | 15 | 22 | 22 | 23 | 23 |
|  | Total Obligation Authority | 363.400 | 320.774 | 297.927 | - | 297.927 | 404.445 | 339.133 | 308.557 | 309.013 |
| ANG | Quantity | 19 | 22 | 15 | - | 15 | 22 | 21 | 22 | 22 |
|  | Total Obligation Authority | 162.502 | 232.651 | 137.898 | - | 137.898 | 199.160 | 252.104 | 309.806 | 310.298 |
| Total: Secondary Distribution | Quantity | 51 | 48 | 30 | - | 30 | 44 | 43 | 45 | 45 |
|  | Total Obligation Authority | 525.902 | 553.425 | 435.825 | - | 435.825 | 603.605 | 591.237 | 618.363 | 619.311 |

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

| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0210609A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 466 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { C } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | GZ0410 / Paladin Integrated Management (PIM) | P-5a, P-21 | A |  | 186/2,223.600 | 51/525.902 | 48 / 553.425 | 30/435.825 | - 1- | 30/435.825 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 186/2,223.600 | $51 / 525.902$ | 48 / 553.425 | $30 / 435.825$ | - 1 - | 30/435.825 |

*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:




 M109 FOV procurement continues to support the supplier/vendor industrial base with fielding in FY24.

In FY2021, \$1.155 million in Reimbursable Manpower for this line has been realigned from Reimbursable Civilian Funding to Direct Operations and Maintenance.
The FY 2021 funding request was reduced by $\$ 88.367$ million to account for the availability of prior year execution balances.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objective (AAO): 689 sets


| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 2073GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |  |  |  |  |  |  |  |  |
| 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. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Pior Year |  |  | Y 2019 |  |  | Y 2020 |  |  | 2021 Bas |  |  | 2021 O |  |  | 2021 To |  |
| Cost Elements | Unit Cost (\$K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost $(\$ K)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MANUFACTURING ${ }^{(+)}$ | 7,249.704 | 186 | 1,348.445 | 6,464.340 | 53 | 342.610 | 6,553.854 | 48 | 314.585 | 7,932.367 | 30 | 237.971 | - | - | - | 7,932.367 | 30 | 237.971 |
| GOVERNMENT FURNISHED EQUIPMENT (GFE) | - | - | 150.848 | - | - | 72.223 | - | - | 69.864 | - | - | 53.249 | - | - | - | - | - | 53.249 |
| THEATRE PROVIDED EQUIPMENT | - | - | 5.851 | - | - | 17.072 | - | - | - | - | - | 16.500 | - | - | - | - | - | 16.500 |
| RECURRING PRODUCTION OTHER | - | - | 61.568 | - | - | 3.195 | - | - | 27.912 | - | - | 7.479 | - | - | - | - | - | 7.479 |
| ENGINEERING CHANGE ORDERS | - | - | 52.741 | - | - | 13.403 | - | - | 14.930 | - | - | 14.521 | - | - | - | - | - | 14.521 |
| Subtotal: Recurring Cost | - | - | 1,619.453 | - | - | 448.503 | - | - | 427.291 | - | - | 329.720 | - | - | - | - | - | 329.720 |
| Subtotal: Hardware Cost | - | - | 1,619.453 | - | - | 448.503 | - | - | 427.291 | - | - | 329.720 | - | - | - | - | - | 329.720 |
| Support - Contractor Logistics Support (CLS) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oversight | - | - | 23.428 | - | - | - | - | - | 1.231 | - | - | 1.140 | - | - | - | - | - | 1.140 |
| Subtotal: Support Contractor Logistics Support (CLS) Cost | - | - | 23.428 | - | - | - | - | - | 1.231 | - | - | 1.140 | - | - | - | - | - | 1.140 |
| Support - Data Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Technical Publications | - | - | 20.288 | - | - | - | - | - | - | - | - | 1.357 | - | - | - | - | - | 1.357 |
| Subtotal: Support - Data Cost | - | - | 20.288 | - | - | - | - | - | - | - | - | 1.357 | - | - | - | - | - | 1.357 |
| Support - Initial Spares and Repair Parts Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares and Repair Parts | - | - | 17.056 | - | - | 8.076 | - | - | 14.278 | - | - | 4.591 | - | - | - | - | - | 4.591 |
| Subtotal: Support - Initial Spares and Repair Parts Cost | - | - | 17.056 | - | - | 8.076 | - | - | 14.278 | - | - | 4.591 | - | - | - | - | - | 4.591 |
| Support - Initial Support Equipment (ISE) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Support and Handling Equipment | - | - | 5.375 | - | - | 3.801 | - | - | 2.702 | - | - | 1.920 | - | - | - | - | - | 1.920 |
| Subtotal: Support - Initial Support Equipment (ISE) Cost | - | - | 5.375 | - | - | 3.801 | - | - | 2.702 | - | - | 1.920 | - | - | - | - | - | 1.920 |
| Support - New Equipment Training (NET) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment | - | - | 11.370 | - | - | 7.661 | - | - | 3.294 | - | - | 3.534 | - | - | - | - | - | 3.534 |


| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 2073GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |  |  |  | Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | Unit Cost (\$ 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 <br> (\$ M) | Unit Cost $(\$ K)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Subtotal: Support - New Equipment Training (NET) Cost | - | - | 11.370 | - | - | 7.661 | - | - | 3.294 | - | - | 3.534 | - | - | - | - | - | 3.534 |
| Support - Operational/Site Activation Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Contractor Technical Support | - | - | 0.320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - <br> Operational/Site Activation Cost | - | - | 0.320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - Support Equipment Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maintenance Equipment | - | - | 16.868 | - | - | 11.184 | - | - | 2.493 | - | - | 3.464 | - | - | - | - | - | 3.464 |
| Subtotal: Support - Support Equipment Cost | - | - | 16.868 | - | - | 11.184 | - | - | 2.493 | - | - | 3.464 | - | - | - | - | - | 3.464 |
| Support - Training Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment | - | - | 17.745 | - | - | 2.447 | - | - | 9.989 | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Training Cost | - | - | 17.745 | - | - | 2.447 | - | - | 9.989 | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | 11,954.839 | 186 | 2,223.600 | 10,311.804 | 51 | 525.902 | 11,529.688 | 48 | 553.425 | 14,527.500 | 30 | 435.825 | - | - | - | 14,527.500 | 30 | 435.825 |

Remarks:
FY 2021 unit cost = Higher unit cost due to Unit manufacturing cost not yet negotiated, estimate reflects prime contractor cost reporting showing overruns experienced to date.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 32 | 26 | 15 | - | 15 |
|  | Total Obligation Authority | 363.400 | 320.774 | 297.927 | - | 297.927 |
| ANG | Quantity | 19 | 22 | 15 | - | 15 |
|  | Total Obligation Authority | 162.502 | 232.651 | 137.898 | - | 137.898 |
| Total: <br> Secondary Distribution | Quantity | 51 | 48 | 30 | - | 30 |
|  | Total Obligation Authority | 525.902 | 553.425 | 435.825 | - | 435.825 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 <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: <br> 2073GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |  |  |  |  |
| Cost Elements | O c O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost (\$K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| MANUFACTURING ${ }^{(+)}$ |  | 2017 | BAE / York | SS/FPIF | TACOM, Warren, MI | Dec 2017 | Jul 2019 | 48 | 8,036.230 | N |  |  |
| MANUFACTURING ${ }^{(+)}$ |  | 2018 | BAE / York | SS/FPIF | TACOM, Warren, MI | Sep 2018 | Sep 2020 | 63 | 6,608.973 | N |  |  |
| MANUFACTURING ${ }^{(+)}$ |  | 2019 | BAE / York | SS/FPIF | TACOM, Warren, MI | Dec 2019 | Dec 2021 | 53 | 6,464.340 | N |  |  |
| MANUFACTURING ${ }^{(+)}$ |  | 2020 | BAE / York | SS/FPIF | TACOM, Warren, MI | Mar 2020 | Feb 2023 | 48 | 6,553.854 | N |  |  |
| MANUFACTURING ${ }^{(+)}$ |  | 2021 | BAE / York | SS/FPIF | TACOM, Warren, MI | Jun 2021 | Feb 2024 | 30 | 7,932.367 | N |  |  |

$\left.{ }^{( }\right)$indicates the presence of a P-21
Remarks:
FY 2018: Production Option 1 will award 63 vehicle sets. Production Option 1 awarded 48 vehicle sets in Sep 2018, an additional 12 vehicle sets in Dec 2019, and will award an additional 3 vehicle sets in March 2020 .
FY 2019: Production Option 2 will award 53 vehicle sets. Production Option 2 awarded 48 vehicle sets in Dec 2019 and will award an additional 5 vehicle sets in March 2020 .
FY 2020: Production Option 2 will award 48 vehicle sets. Production Option 2 will award 40 vehicle sets in March 2020 and an additional 8 vehicle sets in April 2021.
FY 2021: Follow-on Award of 30 vehicle sets in June 2021.

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <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 2018 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2018 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |
| O\|c|c | FY | SERVICE | $\begin{aligned} & \text { PROC } \\ & \text { OTY } \end{aligned}$ | PRIOR <br> TO 1 <br> OCT <br> OT17 | $\begin{gathered} \text { BAL } \\ \text { DSE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | 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 | J | J | A | S E P | O c T | N | D <br> E <br> c | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M $\begin{aligned} & \text { M } \\ & \text { A }\end{aligned}$ | J N | J | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| MANU | FACTUR | RING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Y | ears De | eliveries: 75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2017 | ARMY | 48 | 0 | 48 |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - |  |  | - | 4 | 4 | 4 | 36 |
| 1 | 2018 | ARMY | 63 | 0 | 63 |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - |  | - | - | - | - | 63 |
| 1 | 2019 | ARMY | 53 | 0 | 53 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 53 |
| 1 | 2020 | ARMY | 48 | 0 | 48 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 48 |
| 1 | 2021 | ARMY | 30 | 0 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 |
|  |  |  |  |  |  | O c T | N | D E c | J A N | F | M A R | A <br>  <br> P <br> R | M | U | u | A | S E P | - | N | D E C | A | F | M A R | A P R | M | J U N | J | A | $\underset{\mathrm{S}}{\mathbf{S}}$ |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 Item Number / Title [DODIC]: GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 2073GZ0410 / Paladin Integrated Management (PIM) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | PRIOR TO 1 OCT 2021 | $\begin{gathered} \mathrm{BAL} \\ \text { DUE } \\ \text { AS OF } \\ 10 \mathrm{OCT} \end{gathered}$ | O c T | N | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \mathrm{R} \end{aligned}$ | A <br> P <br> R | M A Y | J | ${ }_{\text {J }}^{\text {u }}$ | A G - | S E P | O c T | N O V | D E c | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A Y | J N | ${ }_{\text {J }}^{\text {u }}$ | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| MANUFACTURING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior Years Deliveries: 75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2017 | ARMY | 48 | 48 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | ARMY | 63 | 52 | 11 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2019 | ARMY | 53 | 0 | 53 | - | - |  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | ARMY | 48 | 0 | 48 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 |  |  | 4 | 4 | 4 | 4 | 16 |
| 1 | 2021 | ARMY | 30 | 0 | 30 | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | 30 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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) |  |  |
| $\begin{array}{\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2021 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2021 | 1-8-5 For 2021 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | BAE - York | 2 | 4 | 5 | 0 | 2 | 14 | 16 |  |  | 32 | 40 |

Remarks:
" 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

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

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 873 | 43 | 16 | - | - | - | 35 | 35 | 35 | 35 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 2,645.104 | 172.853 | 80.146 | - | - | - | 186.816 | 184.813 | 199.801 | 200.800 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 2,645.104 | 172.853 | 80.146 | - | - | - | 186.816 | 184.813 | 199.801 | 200.800 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 2,645.104 | 172.853 | 80.146 | - | - | - | 186.816 | 184.813 | 199.801 | 200.800 | 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) | 3,029.901 | 4,019.837 | 5,009.125 | - | - | - | 5,337.600 | 5,280.371 | 5,708.600 | 5,737.143 | Continuing | Continuing |

## Description:




 the 80 ton Abrams tank. Long lead production items ordered in FY 2022, with follow-on production starting in FY 2023.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 43 | 16 | - | - | - | 35 | 35 | 35 | 35 |
|  | Total Obligation Authority | 172.853 | 80.146 | - | - | - | 186.816 | 184.813 | 199.801 | 200.800 |
| Total: <br> Secondary Distribution | Quantity | 43 | 16 | - | - | - | 35 | 35 | 35 | 35 |
|  | Total Obligation Authority | 172.853 | 80.146 | - | - | - | 186.816 | 184.813 | 199.801 | 200.800 |

## Justification:

FY 2021 Base procurement dollars in the amount of $\$ 0.000$ million.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objective (AAO): 933

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

## 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:
4520GZ3250 / Assault Bridge (Mod)

Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 355.160 | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 | - | 478.043 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 355.160 | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 | - | 478.043 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 355.160 | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 | - | 478.043 |



## Initial Spares (\$ in Millions) <br> Flyaway Unit Cost (\$ in Thousands) <br> Description:

Gross/Weapon System Unit Cost (\$ in Thousands

|  | - | - |
| ---: | ---: | ---: |
| - | - |  |
|  | $20,891.765$ | 268.889 |


|  | - | - |  |
| :---: | :---: | :---: | :---: |
|  | - | - |  |
|  | - | 281.889 |  |



 current requirements and regulations at a cost considerably below that of buying new equipment.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |
| Secondary Distribution | Total Obligation Authority | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 |

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

## 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: $4520 \mathrm{GZ3250}$ / Assault Bridge (Mod)
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: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GZ3250 / Assault Bridge (Mod) (Equipment Upgrade/Technical Insertion) |  | A |  | - / 355.160 | - 12.420 | - / 22.021 | - 15.074 | - 1 - | - 15.074 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1355.160 | - 12.420 | - 122.021 | - 15.074 | - 1 | - 15.074 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GZ3250 / Assault Bridge (Mod) (Equipment Upgrade/Technical Insertion) |  | A |  | - / 19.906 | - / 30.913 | - / 26.549 | - / 16.000 | - $1-$ | - 1478.043 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 19.906 | - 130.913 | - 126.549 | - /16.000 | - 1 - | - 1478.043 |

*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 increase the suspension mean time between failures, increasing system availability.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-3a, Individual Modification: PB 2021 Army Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20
ID Code (A=Service Ready, B=Not Service Ready) : A

| ID Code ( $\mathrm{A}=$ Service Ready, $\mathrm{B}=$ Not Service Ready |  |  |  |  |  | MDAP/M | e: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 355.160 | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 | - | 478.043 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 355.160 | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 | - | 478.043 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 355.160 | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 | - | 478.043 |
| (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) | 20,891.765 | 268.889 | - | 281.889 | - | 281.889 | 432.739 | 672.022 | 577.152 | 380.952 | - | 2,134.121 |

## Description:



 regulations at a cost considerably below that of buying new equipment. Installation costs are included in the cost of each hardware kit.

Modification Item \#1: Armored Vehicle Launched Bridge (AVLB): This modification item is not funded in FY2021.
Modification Item \#2: Assault Breacher Vehicle (ABV): FY2021 Base procurement dollars in the amount of $\$ 5.074$ million supports the Abrams A2 Heavy Duty Suspension upgrade to the Assault Breacher Vehicle (ABV). The upgrade will replace the obsolete A1 suspension and keep the ABV's suspension common to the current Abrams configuration. The upgrade will keep the logistics footprint minimized, provide for growth for additional future force protection initiatives and increase the suspension mean time between failures, increasing system availability.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 |

Exhibit P-3a, Individual Modification: PB 2021 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: 4520GZ3250 / Assault Bridge (Mod)

Date: February 2020

## Modification Number / Title:

GZ3250 / Assault Bridge (Mod)

Models of Systems Affected: Armored Vehicle
Launched Bridge, Assault Breacher Vehicle

MDAP/MAIS Code:

## Modification Type: Equipment Upgrade/Technical

Insertion

## Related RDT\&E PEs:

|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \hline \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 2: Armored Vehicle Launched Bridge (AVLB) Upgrades |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| AVLB Bridge Upgrade | 106 / 336.994 | - 1. | $36 / 19.200$ | - 1. | - 1. | - 1 - | 1718.602 | 22/11.355 | 25/13.162 | $16 / 8.592$ | - 1. | 222 / 397.905 |
| Subtotal: Recurring | 106/336.994 | - / - | 36/19.200 | - 1- | - / - | - / - | 17/8.602 | 22/11.355 | 25/13.162 | 16/8.592 | - / - | 222 /397.905 |
| Subtotal: Armored Vehicle Launched Bridge (AVLB) Upgrades | 106/336.994 | - / - | 36/19.200 | - / - | - / - | - / - | 17/8.602 | 22/11.355 | 25/13.162 | 16/8.592 | 1. | 222 /397.905 |
| Modification Item 2 of 2: Assault Breacher Vehicle (ABV) |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| ABV Abrams A2 Heavy Suspension Upgrade | - /18.166 | 9/2.420 | 9/2.821 | $18 / 5.074$ | - 1- | 18/5.074 | 2216.404 | 11/4.375 | 8/3.919 | 2617.408 | $1-$ | $103 / 50.587$ |
| Subtotal: Recurring | - /18.166 | 9/2.420 | 9/2.821 | 18/5.074 | 1 | 18/5.074 | $22 / 6.404$ | 11/4.375 | 8/3.919 | 26/7.408 | 1 - | 103/50.587 |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| ABV Remote Control System (RCS) | 1 - | 1 - | $1-$ | $1-$ | - 1- | - 1 - | $7 / 4.900$ | 13/9.282 | 13/9.468 | $1-$ | 1. | $33 / 23.650$ |
| ABV Software 4.0 Update | - 1- | - 1 - | - 1- | - 1- | - 1- | - 1 - | - 1 | - 15.901 | - 1- | - 1- | 1 | - 15.901 |
| Subtotal: Non-Recurring | - / - | - / - | - / - | - / - | - / - | - / - | 7/4.900 | 13/15.183 | 13/9.468 | - 1- | 1. | 33/29.551 |
| Subtotal: Assault Breacher Vehicle (ABV) | /18.166 | 9/2.420 | 9/2.821 | 18/5.074 | - / - | 18/5.074 | 29/11.304 | 24/19.558 | 21/13.387 | 26/7.408 | 1. | 136/80.138 |
| Subtotal: Procurement, All Modification Items | 106/355.160 | 9/2.420 | 45/22.021 | 18/5.074 | - 1 - | 18/5.074 | 46/19.906 | 46/30.913 | 46/26.549 | 42/16.000 | 1. | 358/478.043 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - / - | 1 | 1. | - 1- | 1 | 1 | 1 | 1 | 1. | 1. | 1. | - / - |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 355.160 | 2.420 | 22.021 | 5.074 | - | 5.074 | 19.906 | 30.913 | 26.549 | 16.000 | - | 478.043 |

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  | P-1 Line Item Number / Title: 4520GZ3250 / Assault Bridge (Mod) |  |  | Modification Number / Title: GZ3250 / Assault Bridge (Mod) |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A |  |  |  | MDAP/MAIS Code: |  |  |  |
| Modification Item 1 of 2: Armored Vehicle Launched Bridge (AVLB) Upgrades |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Anniston Army Depot |  |  |  | Manufacturer Location: Anniston, AL |  |  |  |
| Administrative Leadtime (in Months): 3 |  |  |  | Production Leadtime (in Months): 10 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  | Mar 2020 |  | Jan 2022 | Jan 2023 | Jan 2024 | Jan 2025 |
| Delivery Dates |  | Dec 2020 |  | Oct 2022 | Oct 2023 | Oct 2024 | Oct 2025 |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Anniston Army Depot |  |  |  |  | Installati | ntity: 80 |  |

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  | P-1 Line Item Number / Title: 4520GZ3250 / Assault Bridge (Mod) |  |  | Modification Number / Title: GZ3250 / Assault Bridge (Mod) |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A |  |  |  | MDAP/MAIS Code: |  |  |  |
| Modification Item 2 of 2: Assault Breacher Vehicle (ABV) |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Anniston Army Depot |  |  |  | Manufacturer Location: Anniston, AL |  |  |  |
| Administrative Leadtime (in Months): 3 |  |  |  | Production Leadtime (in Months): 3 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Jan 2019 | Jan 2020 | Jan 2021 | Jan 2022 | Jan 2023 | Jan 2024 | Jan 2025 |
| Delivery Dates | Apr 2019 | Apr 2020 | Apr 2021 | Apr 2022 | Apr 2023 | Apr 2024 | Apr 2025 |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Anniston Army Depot |  |  |  |  | Installation Quantity: 136 |  |  |

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

## 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

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

| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 126 | 13 | 6 | 4 | - | 4 | 5 | 5 | - | - | - | 159 |
| Gross/Weapon System Cost (\$ in Millions) | 501.481 | 62.107 | 31.697 | 19.500 | - | 19.500 | 26.171 | 26.041 | 1.171 | - | - | 668.168 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 501.481 | 62.107 | 31.697 | 19.500 | - | 19.500 | 26.171 | 26.041 | 1.171 | - | - | 668.168 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 501.481 | 62.107 | 31.697 | 19.500 | - | 19.500 | 26.171 | 26.041 | 1.171 | - | - | 668.168 |
| (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) | 3,980.008 | 4,777.462 | 5,282.833 | 4,875.000 | - | 4,875.000 | 5,234.200 | 5,208.200 | - | - | - | 4,202.314 |

## Description:

The Assault Breacher Vehicle (ABV) is a combined program with the United States Marine Corps (USMC). It is a tracked combat engineer vehicle for the Marine Air Ground Task Force and the Army Armored Brigade Combat Team (ABCT). It is designed to breach minefields and barrier obstacles to enable tanks and infantry of the ABCT to maintain pace in offensive combat operations. The ABV provides crew protection and vehicle survivability equal to the M1A1 Abrams tank hull and has the speed and mobility to keep pace with the heavy maneuver force. The ABV is assigned to engineer companies in ABCTs Its hull is an overhauled M1A1 Abrams tank hull with modifications for its new mission. Its mission equipment includes two Linear Demolition Charge Systems (modified Mine Clearing Line Charge (MICLC) systems), interchangeable Engineer Breaching System hardware consisting of a Full Width Mine Plow and a Combat Dozer Blade, a Lane Marking System to automatically mark a cleared path behind the ABV and an integrated day/night vision system. The ABV is fabricated at Anniston Army Depot (ANAD).

The ABV Army Acquisition Objective (AAO) is 141.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 6 | 6 | 4 | - | 4 | 5 | 5 | - | - |
|  | Total Obligation Authority | 30.904 | 31.697 | 19.500 | - | 19.500 | 26.171 | 26.041 | 1.171 | - |
| ANG | Quantity | 7 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 31.203 | - | - | - | - | - | - | - | - |
| Total: Secondary Distribution | Quantity | 13 | 6 | 4 | - | 4 | 5 | 5 | - | - |
|  | Total Obligation Authority | 62.107 | 31.697 | 19.500 | - | 19.500 | 26.171 | 26.041 | 1.171 | - |


| Exhibit P-40, Budget Line Item Justification: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 4872G82925 / Assault Breacher Vehicle |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Rea | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G82925 / Assault Breacher Vehicle | P-5a, P-21 | A |  | 126 / 501.481 | 13/62.107 | 6/31.697 | $4 / 19.500$ | - 1 | 4 / 19.500 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 126 / 501.481 | 13/62.107 | 6/31.697 | $4 / 19.500$ | - 1 - | 4 / 19.500 |

## *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:


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

Exhibit P-5, Cost Analysis: PB 2021 Army

Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20

## P-1 Line Item Number / Title: 4872G82925 / Assault Breacher Vehicle

Date: February 2020

## Item Number / Title [DODIC]:

G82925 I Assault Breacher Vehicle

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


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| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  |  | P-1 Line Item Number / Title: 4872G82925 / Assault Breacher Vehicle |  |  |  |  |  |  |  | Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | Unit Cost (\$ 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 <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 Cost (\$ M) |
| Engineering Change Proposals | - | - | 5.975 | - | . | . | - | - | . | - | - | - | - | - | . | - | - | . |
| Subtotal: Recurring Cost | - | - | 501.481 | - | - | 59.707 | - | - | 31.697 | - | - | 19.500 | - | - | - | - | - | 19.500 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Faciily Test Overhauls | - | - | - | - | - | 2.400 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | - | - | - | 2.400 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Flyaway Cost | - | - | 501.481 | - | - | 62.107 | - | - | 31.697 | - | - | 19.500 | - | - | - | - | - | 19.500 |
| Gross/Weapon System Cost | 3,980.008 | 126 | 501.481 | 4,777.462 | 13 | 62.107 | 5,282.833 | 6 | 31.697 | 4,875.000 |  | 19.500 | - | - | - | 4,875.000 | 4 | 19.500 |
| Secondary Distribution |  |  |  |  |  |  | FY 2019 |  | FY 2020 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OcO } \end{aligned}$ |  |  | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |  |
| Army |  | Quantity |  |  |  |  |  |  |  | 6 |  |  | 6 |  | 4 |  |  | - |  | 4 |
|  |  | Total Obligation Authority |  |  |  |  |  | 30.904 |  |  |  |  |  | 31.697 |  | 19.500 |  |  | - |  | 19.500 |
| ANG |  | Quantity |  |  |  |  |  | 7 |  |  | - |  | - |  |  | - |  | - |
|  |  | Total Obligation Authority <br> Quantity |  |  |  |  |  | 31.203 |  |  | - |  | - |  |  | - |  | $-$ |
| Total: <br> Secondary Distribution |  |  |  |  |  |  |  | 13 |  |  | 6 |  | 4 |  |  | - |  | 4 |
|  |  | Total Obligation Authority |  |  |  |  |  | 62.107 |  |  | 31.697 |  | 19.500 |  |  | - |  | 19.500 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 2033A / } 01 \text { / } 20$ |  |  | P-1 Line Item Number / Title: 4872G82925 / Assault Breacher Vehicle |  |  |  | Item Number / Title [DODIC]: G82925 I Assault Breacher Vehicle |  |  |  |  |
|   <br> Cost Elements $\mathbf{O}$ <br> C  <br> C  | 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 |
| ABV Hardware ${ }^{(\dagger)}$ | 2019 | Anniston Army Depot (ANAD) / Anniston, AL | WR | TACOM - Warren, MI | Feb 2019 | Feb 2020 | 13 | 2,598.154 | Y |  |  |
| ABV Hardware ${ }^{(\dagger)}$ | 2020 | Anniston Army Depot (ANAD) / Anniston, AL | WR | TACOM - Warren, MI | Feb 2020 | Feb 2021 | 6 | 2,846.167 | Y |  |  |
| ABV Hardware ${ }^{(\dagger)}$ | 2021 | Anniston Army Depot (ANAD) / Anniston, AL | WR | TACOM - Warren, MI | Feb 2021 | Feb 2022 | 4 | 2,684.250 | Y |  |  |

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

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$2033 A / 01 / 20$ |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 4872G82925 / Assault Breacher Vehicle |  |  |  |  |  |  |  |  |  |  |  | Item Number / Title [DODIC]: G82925 I Assault Breacher Vehicle |  |  |  |  |  |  |  |
| $\begin{aligned} & \hline \text { Cost Elements } \\ & \text { (Units in Each) } \end{aligned}$ |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | $\stackrel{P R O C}{ }$ | PRIOR TO 1 OCT 2018 | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 10 C T \end{gathered}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | N | D <br> E <br> C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A P R | M A Y | J U | u | A | S E P | O c T | N | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M ${ }_{\text {M }}^{\text {A }}$ | A P R | M A Y | U | J | A | S <br>  <br> $\mathbf{E}$ |  |
| ABV | ardware |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior $Y$ | Years De | eliveries: 118 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2019 | ARMY | 13 | 0 | 13 |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 |  | 1 | 1 |  |  | 1 | 4 |
| 1 | 2020 | ARMY | 6 | 0 | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | 6 |
| 1 | 2021 | ARMY | 4 | 0 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 |
|  |  |  |  |  |  | O c T | N | D E c | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br>  <br> P <br> R | M A Y | J U N | J u L | A | S E P | O c T | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A <br> P <br> R | M A Y | J | J | A | S <br>  <br> $\mathbf{E}$ <br> $\mathbf{P}$ |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  |  |  | P-1 Line Item Number / Title: 4872G82925 I Assault Breacher Vehicle |  |  |  |  | Item Number / Title [DODIC]: G82925 / Assault Breacher Vehicle |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2021 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2021 | 1-8-5 For 2021 |  | $\begin{gathered} \mathrm{ALT} \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \hline \text { Manufacturing } \\ \text { PLT } \end{gathered}$ | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ |  | $\begin{gathered} \hline \text { Manufacturing } \\ \text { PLT } \end{gathered}$ | Total After Oct 1 |
| 1 | Anniston Army Depot (ANAD) <br> - Anniston, AL | 1 | 1 | 3 | 0 | 4 | 12 | 16 | 0 | 4 | 12 | 16 |

## "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 2021 Army
Date: February 2020

## 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:
5129G80571 / M88 FOV MODS

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 126.273 | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 126.273 | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 126.273 | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - | 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:



 related to engine reliability, automatic fire extinguishing system (AFES), power management system, improved automotive performance related to braking, and special tools delta kits.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - |

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

## 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:
5129G80571 / M88 FOV MODS
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: 0203735A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | G80571 / M88 FOV MODS (Increase Performance) |  | A |  | - / 126.273 | - 14.517 | - 14.500 | - /18.382 | - 1- | - /18.382 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 126.273 | - 14.517 | - 14.500 | - /18.382 | - 1 - | - /18.382 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | G80571 / M88 FOV MODS (Increase Performance) |  | A |  | - /16.484 | - 16.993 | - 1- | - 1- | Continuing | Continuing |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 16.484 | - 16.993 | 1 - | - 1 - | 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:


 support M88A2 reliability and safety field modifications through FY 2022.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  | P-1 Line Item Number / Title: 5129G80571 / M88 FOV MODS |  |  |  |  |  | Modification Number / Title: G80571 / M88 FOV MODS |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 126.273 | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 126.273 | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 126.273 | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - | 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) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 modification line funds testing, System Engineering, Program Management and Original Equipment Manufacturer (OEM) System Technical Support (STS).

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - |  |
|  | Total Obligation Authority | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - |


| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  | P-1 Line Item Number / Title: 5129G80571 / M88 FOV MODS |  |  |  |  |  | Modification Number / Title: G80571 / M88 FOV MODS |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |
| Models of Systems Affected: M88 |  | Modification Type: Increase Performance |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \hline \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 2: Program Management |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Contractor Program Support | - 10.352 | - 1. | - 1 - | - 10.750 | - 1. | - 10.750 | - 10.765 | - 10.390 | - 1 - | - 1. | Continuing | Continuing |
| Government Program Support | - 1 - | - 1- | - 1 | - 14.640 | - 1- | - 14.640 | - 14.733 | - 12.029 | - 1- | - 1- | Continuing | Continuing |
| Subtotal: Recurring | - 10.352 | - 1- | - 1- | - 15.390 | - 1 - | - 15.390 | - 15.498 | - 12.419 | - 1 - | - 1- | Continuing | Continuing |
| Subtotal: Program Management | - 10.352 | 1 - | 1 | - 15.390 | 1 - | - 15.390 | - 15.498 | - 12.419 | - 1- | - 1- | Continuing | Continuing |
| Modification Item 2 of 2: Systems Technical Support |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Systems Technical Support | - 1- | - 14.517 | - 14.500 | - 16.300 | 1 - | - 16.300 | - 16.426 | - 12.445 | 1 | - 1 | Continuing | Continuing |
| Subtotal: Recurring | 1 | - /4.517 | - /4.500 | - 16.300 | 1 | - 16.300 | - 16.426 | - 12.445 | 1 - | - 1- | Continuing | Continuing |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Systems Technical Support | - /125.921 | - 1- | - 1- | - 16.692 | $1-$ | - 16.692 | - 14.560 | - 12.129 | 1 - | - 1 | Continuing | Continuing |
| Subtotal: Non-Recurring | - /125.921 | - $1-$ | - 1- | - /6.692 | -1- | - 16.692 | - 14.560 | - 12.129 | - $1-$ | 1 | Continuing | Continuing |
| Subtotal: Systems Technical Support | - /125.921 | - 14.517 | - 14.500 | - /12.992 | 1 - | - /12.992 | - /10.986 | - 14.574 | 1 - | 1 | Continuing | Continuing |
| Subtotal: Procurement, All Modification Items | - /126.273 | - /4.517 | - 14.500 | - /18.382 | 1. | - /18.382 | - /16.484 | - 16.993 | - 1 - | - 1 - | Continuing | Continuing |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - 1 - | - 1 - | - / - | - / - | - / - | 1 - | / - | - 1 | - 1 - | - / - | - / - | - 1 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 126.273 | 4.517 | 4.500 | 18.382 | - | 18.382 | 16.484 | 6.993 | - | - | Continuing | Continuing |

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## 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: 0604804A
P-1 Line Item Number / Title:
5225GZ3001 / Joint Assault Bridge

Other Related Program Elements: N/A

## Line Item MDAP/MAIS Code: X33

| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 51 | 21 | 45 | 14 | - | 14 | 30 | 46 | 50 | 39 | - | 296 |
| Gross/Weapon System Cost (\$ in Millions) | 286.023 | 119.147 | 205.517 | 72.178 | - | 72.178 | 143.054 | 220.376 | 245.365 | 196.252 | - | 1,487.912 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 286.023 | 119.147 | 205.517 | 72.178 | - | 72.178 | 143.054 | 220.376 | 245.365 | 196.252 | - | 1,487.912 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 286.023 | 119.147 | 205.517 | 72.178 | - | 72.178 | 143.054 | 220.376 | 245.365 | 196.252 | - | 1,487.912 |
| (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) | 5,608.294 | 5,673.667 | 4,567.044 | 5,155.571 | - | 5,155.571 | 4,768.467 | 4,790.783 | 4,907.300 | 5,032.103 | - | 5,026.730 |

## Description:





 Test completion is planned for 3Qtr FY20 to support a Full Rate Production Decision in 2Qtr quarter FY21.

JAB Army Acquisition Objective: 305
FY19 quantities are not correct and should reflect production of 24 JABs . Program quantities, cost and production information is correctly indicated on P5 and P21.
The FY 2021 funding request was reduced by $\$ 70.000$ million to account for the availability of prior year execution balances

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 12 | 14 | 2 | - | 2 | 8 | 3 | 26 | 31 |
|  | Total Obligation Authority | 62.245 | 63.939 | 10.311 | - | 10.311 | 54.878 | 22.792 | 138.640 | 160.717 |
| ANG | Quantity | 9 | 30 | 12 | - | 12 | 12 | 18 | 6 | - |
|  | Total Obligation Authority | 56.902 | 137.011 | 61.867 | - | 61.867 | 48.096 | 79.038 | 26.681 | - |
| AR | Quantity | - | 1 | - | - | - | 10 | 25 | 18 | 8 |
|  | Total Obligation Authority | - | 4.567 | - | - | - | 40.080 | 118.546 | 80.044 | 35.535 |
| Total: | Quantity | 21 | 45 | 14 | - | 14 | 30 | 46 | 50 | 39 |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 5225GZ3001 / Joint Assault Bridge |  |  |  |  |  |
| ID Code (A=Service Ready | ot Service Ready): B | Program Elements for Code B Items: 0604804A |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: X33 |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Secondary Distribution | Total Obligation Authority | 119.147 | 205.517 | 72.178 | - | 72.178 | 143.054 | 220.376 | 245.365 | 196.252 |

Exhibit P-40, Budget Line Item Justification: PB 2021 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): B |  | Program Elements for Code B Items: 0604804A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: X33 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | GZ3001 / Joint Assault Bridge | P-5a, P-21 | B |  | $51 / 286.023$ | 21/119.147 | 45/205.517 | $14 / 72.178$ | - 1- | 14 /72.178 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | $51 / 286.023$ | 21/119.147 | 45/205.517 | $14 / 72.178$ | - 1 - | $14 / 72.178$ |

*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:


 M60 Armored Vehicle Launch Bridge.
 updated to reflect the realignments.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objective: 305
NOTE: FY19 quantities are not correct and should reflect production of 24 JABs. Program quantities, cost and production information is correctly indicated on P5 and P21.

Exhibit P-5, Cost Analysis: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity:

## 2033A / 01 / 20

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

Date: February 2020

## Item Number / Title [DODIC]:

GZ3001 / Joint Assault Bridge

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Procurement Quantity (Units in Each) | 51 | 21 | 45 | 14 | - | 14 |
| Gross/Weapon System Cost (\$ in Millions) | 286.023 | 119.147 | 205.517 | 72.178 | - | 72.178 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 286.023 | 119.147 | 205.517 | 72.178 | - | 72.178 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 286.023 | 119.147 | 205.517 | 72.178 | - | 72.178 |
| (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) | 5,608.294 | 5,673.667 | 4,567.044 | 5,155.571 | - | 5,155.571 |

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

| Cost Elements | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost (\$ K) | $\underset{(\text { Each }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Flyaway Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware - LRIP ${ }^{(\dagger)}$ | 1,447.294 | 51 | 73.812 | 1,338.500 | 24 | 32.124 | 1,338.500 | 14 | 18.739 | - | - | - | - | - | - | - | - | - |
| Hardware - FRP ${ }^{(\dagger)}$ | - | - | - | - | - | - | 1,365.194 | 31 | 42.321 | 1,365.214 | 14 | 19.113 | - | - | - | 1,365.214 | 14 | 19.113 |
| GFM ANAD Rolling Chassis | 2,513.529 | 51 | 128.190 | 2,518.417 | 24 | 60.442 | 2,568.267 | 45 | 115.572 | 2,619.643 | 14 | 36.675 | - | - | - | 2,619.643 | 14 | 36.675 |
| Bridge Upgrades | 456.255 | 51 | 23.269 | 485.208 | 24 | 11.645 | 494.844 | 45 | 22.268 | 504.714 | 14 | 7.066 | - | - | - | 504.714 | 14 | 7.066 |
| Engineering Changes | - | - | 18.299 | - | - | 0.376 | - | - | - | - | - | 3.000 | - | - | - | - | - | 3.000 |
| System Engineering/ Program Management | - | - | 25.661 | - | - | 4.577 | - | - | 4.721 | - | - | 4.661 | - | - | - | - | - | 4.661 |
| Support Equipment/ ASIOE | - | - | 7.392 | - | - | 0.150 | - | - | 0.196 | - | - | 0.163 | - | - | - | - | - | 0.163 |
| Fielding | - | - | 4.300 | - | - | 0.800 | - | - | 0.850 | - | - | 0.750 | - | - | - | - | - | 0.750 |
| First Destination <br> Transportation - FDT | - | - | - | - | - | 1.051 | - | - | 0.850 | - | - | 0.750 | - | - | - | - | - | 0.750 |
| Subtotal: Recurring Cost | - | - | 280.923 | - | - | 111.165 | - | - | 205.517 | - | - | 72.178 | - | - | - | - | - | 72.178 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Logistics Products | - | - | 5.100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Simulator - Common Driver Trainer (CDT) Update | - | - | - | - | - | 7.982 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 5.100 | - | - | 7.982 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Flyaway Cost | - | - | 286.023 | - | - | 119.147 | - | - | 205.517 | - | - | 72.178 | - | - | - | - | - | 72.178 |

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| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$ 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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 Cost (\$ M) |
| Gross/Weapon System Cost | 5,608.294 | 51 | 286.023 | 5,673.667 | 21 | 119.147 | 4,567.044 | 45 | 205.517 | 5,155.571 | 14 | 72.178 | . | . | - | 5,155.571 | 14 | 72.178 |

Remarks:
In FY 2021, $\$ 0.356$ million in Reimbursable Manpower for JAB has been realigned from Reimbursable Civilian Funding to Direct Operations and Maintenance. Program support costs have been accurately updated to reflect the realignments.

NOTE: FY19 quantities are not correct and should reflect production of 24 JABs . Program quantities, cost and production information is correctly indicated on P5 and P21.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 12 | 14 | 2 | - | 2 |
|  | Total Obligation Authority | 62.245 | 63.939 | 10.311 | - | 10.311 |
| ANG | Quantity | 9 | 30 | 12 | - | 12 |
|  | Total Obligation Authority | 56.902 | 137.011 | 61.867 | - | 61.867 |
| AR | Quantity | - | 1 | - | - | - |
|  | Total Obligation Authority | - | 4.567 | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 21 | 45 | 14 | - | 14 |
|  | Total Obligation Authority | 119.147 | 205.517 | 72.178 | - | 72.178 |

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> GZ3001 / Joint Assault Bridge |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activ 2033A / 01 / 20 | ty / Bu | Sub Activity: | P-1 Line Item Number / Title: 5225GZ3001 / Joint Assault Bridge |  |  |  |  |  |  |  |  |
|   <br> Cost Elements O <br> c  <br> c  | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\underset{(\text { (Each) }}{\text { Qty }}$ | Unit Cost (\$K) | Specs Avail Now? | Date Revision Available | $\begin{array}{\|c} \text { RFP Issue } \\ \text { Date } \end{array}$ |
| Hardware - LRIP | 2018 | DRS Sustainment Systems, INC / Saint Louis, MO | C/FFP | TACOM, Warren, MI | Dec 2017 | Nov 2019 | 27 | 1,300.000 | Y |  |  |
| Hardware - LRIP | 2019 | DRS Sustainment Systems, INC / Saint Louis, MO | C/FFP | TACOM, Warren, MI | Feb 2020 | Apr 2021 | 24 | 1,338.500 | Y |  |  |
| Hardware - LRIP | 2020 | DRS Sustainment Systems, INC / Saint Louis, MO | C/FFP | TACOM, Warren, MI | Jul 2020 | Sep 2021 | 14 | 1,338.500 | Y |  |  |
| Hardware - FRP ${ }^{(\dagger)}$ | 2020 | DRS Sustainment Systems, INC / Saint Louis, MO | C/FFP | TACOM, Warren, MI | Mar 2021 | Jul 2022 | 31 | 1,365.194 | Y |  |  |
| Hardware - FRP ${ }^{(\dagger)}$ | 2021 | DRS Sustainment Systems, INC / Saint Louis, MO | C/FFP | TACOM, Warren, MI | Mar 2021 | Jul 2022 | 14 | 1,365.214 | Y |  |  |

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

## Remarks:

 Military Load Capacity (MLC) 60 to MLC 95 configuration

FY20 funding will be awarded as a split between Low Rate Initial Production (LRIP) award of 14 systems July FY20 and post Full Rate Production (FRP) decision award of 31 systems in March FY21

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> 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 2018 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { C } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2018 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | $\stackrel{\text { PROC }}{ }$ | $\begin{gathered} \text { PRIO } \\ \text { TO } 1 \\ \text { OCT } \\ 2017 \end{gathered}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | $\begin{aligned} & \text { M } \\ & A \\ & R \end{aligned}$ | A P R | M A Y | J N | $\mathrm{J}_{\mathrm{u}}^{\mathrm{u}}$ | A | S E P | O c T | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { v } \end{aligned}$ | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A P R | M A Y | J N N | ${ }_{\text {J }}$ | A | S E P |  |
| Hardware - FRP |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2020 | ARMY | 31 | 0 | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 31 |
|  | 2021 | ARMY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14 |
|  |  |  |  |  |  | O c T | N - v | D E C | J A N | F | M A R | A P R | M | J | ${ }_{\text {J }}$ | $\stackrel{\text { A }}{\text { U }}$ | $\underset{\text { E }}{\text { E }}$ | $\stackrel{\text { O }}{\text { c }}$ | N O v | D E c | J | F | M A R | A | M A Y | J | J | A | $\stackrel{\text { S }}{\text { E }}$ |  |
|  |  |  |  |  |  | T | v | c | N | в | R | R | Y | N | L |  | P |  | v | c | N | B | R | R |  | N |  |  |  |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> 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 2020 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|} \hline 0 & \mathrm{~F} \\ \mathrm{c} & \mathrm{R} \\ \mathrm{O} & \# \end{array}$ | FY | SERVICE | $\begin{aligned} & \text { PROC } \end{aligned}$ | PRIOR TO 1 OCT 2019 | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N | D E c | J A N | F E B | M <br>  <br> R | A P R | M A Y | J ${ }_{\text {J }}$ | J | A U G | S E P | O c T | $\begin{aligned} & \text { N } \\ & \text { o } \\ & \text { v } \end{aligned}$ | D E c | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br> P <br> R | M | J N N | ${ }_{\text {J }}^{\text {u }}$ | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| Hardw | are - FR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2020 | ARMY | 31 | 0 | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - |  | - | - | - | - | 31 |
| 1 | 2021 | ARMY | 14 | 0 | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - |  | - | - |  | - | 14 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M <br>  <br> R | A <br>  <br> P <br> R | M A Y | J N | J | A U G | S E P | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M <br>  <br> R | A <br> P <br> R | M A Y | J U N | ${ }_{\text {u }}^{\text {u }}$ | A U G | $\stackrel{\mathrm{S}}{\mathrm{E}}$ |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |
| $\begin{array}{\|c\|} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2021 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2021 | 1-8-5 For 2021 |  | $\begin{gathered} \mathrm{ALT} \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \hline \text { Manufacturing } \\ \text { PLT } \end{gathered}$ | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \\ \hline \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Manufacturing } \\ \text { PLT } \end{gathered}$ | Total After Oct 1 |
| 1 | DRS Sustainment Systems, INC - Saint Louis, MO | 1 | 2 | 5 | 0 | 2 | 16 | 18 | 0 | 2 | 16 | 18 |

## "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 2021 Army
Date: February 2020

## 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:
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: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 6,960.483 | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 6,960.483 | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 6,960.483 | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 | 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:




 Rear View Sensing System (RVSS), light weighting, and any other modification identified in existing requirement documents or validated by the Army.
 facilities comprising the Abrams tank IB.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 |

Exhibit P-40, Budget Line Item Justification: PB 2021 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: 6406GA0700 / M1 Abrams Tank (MOD)
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: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GA0700 / M1 Abrams Tank (MOD) (Increase Performance) |  | A |  | - 16,960.483 | - /959.041 | - / 353.292 | - / 392.013 | - 1- | - / 392.013 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 16,960.483 | 1959.041 | 1353.292 | 1392.013 | - 1 - | - $/ 392.013$ |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-3a | GA0700 / M1 Abrams Tank (MOD) (Increase Performance) |  | A |  | - 1374.060 | - 1387.201 | - 1389.299 | - / 497.035 | Continuing | Continuing |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1374.060 | - 1387.201 | - 1389.299 | - 1497.035 | 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:

FY 2021 Base procurement dollars in the amount of $\$ 392.013$ million supports the following:


 peer adversaries.
 production capability.
 updated to reflect the realignments.

- The 2021 funding request was reduced by $\$ 10.000$ million to account for the availability of prior year execution balances.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-3a, Individual Modification: PB 2021 Army

| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  | P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD) |  |  |  |  |  | Modification Number / Title: GA0700 / M1 Abrams Tank (MOD) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Milions) | 6,960.483 | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 6,960.483 | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 6,960.483 | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 | 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) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Abrams Field Upgrades (MOD 2): Provides funding for components and labor for required safety and other field related modifications. These modifications correct or alleviate operational deficiencies, improve reliability and maintainability, correct faulty performance or quality, reduce logistical support requirements, standardize equipment and training devices, prevent injury or damage to equipment, and meet environmental protection standards identified during testing, training exercises, or combat. Field modifications include Blue Force Tracking (BFT) 2 and Mounted Family of Computer System (MFoCS), Ammunition Data Link (ADL), Common Remote Operated Weapon Station Low Profile (CROWS-LP), light-weighting, Advanced Multi-Purpose (AMP) round tank Modification Work Orders (MWO), Vehicle Health Management System and Embedded Training (VEM), Vehicle Engine Exhaust Smoke System (VEESS), or any other gap identified by the Combat or Material Developer. Installation of hardware is either cascaded into the production line in an Engineering Change Proposal (ECP) or applied on a unit-by-unit basis by several field modification teams and is determined by unit availability. Installation costs are included in the contractor costs and cannot be broken out. Contract dates will vary by individual component. Additionally, this modification line funds testing as well as System Technical Support (STS) from General Dynamics Land Systems (GDLS), General Dynamics Canada (GDC), Raytheon, and DRS Technologies. Formerly, these costs were funded in the Abrams Program support line but were moved to MOD 2 because STS and testing validation efforts are used to modify the tank in support of field upgrades and fielding.

Program/Engineering Support (MOD 5): This modification line funds government program salaries, benefits, TDY, office automation, administration, and supplies. These funds also provide for dedicated functional support from the Tank Automotive Command (TACOM), Combat Capabilities Development Command (CCDC), Anniston Army Depot (ANAD), Joint Systems Manufacturing Center (JSMC), Abrams Material Fielding Team (MFT) at Ft. Hood, Texas, and other government sites.

Power Pack Improvement \& Integration Optimization (MOD 6): This modification reduces the Operating and Support (O\&S) cost of the Abrams Tank power train. It equips the Abrams fleet with a more reliable, durable, and fuel-efficient power pack. It also establishes a single overhaul standard for the vehicle's power train. This modification line funds System Technical Support (STS) from Honeywell for the TIGER engine, Digital Engine Control Unit (DECU), and Allison Transmission. Contractor dates will vary by item.

Training Devices (MOD 7): Provides funding for Training Aids, Devices, Simulators and Simulations (TADSS) in support of the Abrams family of vehicles. System training devices are required to remain current with upgraded fleet configuration/capabilities. TADSS include Maintenance Trainers, Gunnery Trainer Tech Refresh, Common Drivers Trainer Upgrades, Desktop Trainer Lesson modifications, Abrams Common Software Library modifications and Through Sight Video (TSV). Contract dates will vary by item and cannot be predicted. Includes non-recurring engineering for hardware and software changes, embedded training, procurement cost of the hardware associated with modifications to existing training devices, and field installation at the unit.

Facilities Maintenance, Optimization, and Modernization (MOD 8): This funding supports the maintenance, optimization, and modernization of the facilities and equipment supporting the Abrams tank IB at Anniston Army Depot, Anniston, AL; Tobyhanna Army Depot, Tobyhanna, PA; Watervliet Arsenal, Watervliet, NY; Joint Systems Manufacturing Center, Lima, OH; Allison Transmission, Inc., Indianapolis, IN; Scranton Defense Plant, Scranton, PA; General Dynamics Land Systems (GDLS) Sterling Heights Complex, Sterling Heights, MI; GDLS Tallahassee, Tallahassee, FL; Honeywell Aerospace, Phoenix, AZ; Raytheon and Leonardo DRS facilities; and any other facility providing manufacturing, production, or support of Abrams tanks. Funding will be used to address current and deferred maintenance, internal

Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity:

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

## Date: February 2020

## Modification Number / Title:

GA0700 / M1 Abrams Tank (MOD)
restructuring of manufacturing facilities and equipment, manufacturing and production line optimization, energy-savings projects aimed at energy efficiency and reduced energy costs, efforts to increase manufacturing and production efficiency at current and future forecasted rates, and modernization of end-of-service and end-of-useful life facilities and equipment. These efforts will include, but are not limited to, facilities and equipment maintenance; deferred facilities and equipment maintenance; Environmental Protection Agency and Occupational Safety and Health Administration compliance; quality of work environment projects; acquisition, repair, rehabilitation, replacement, preservation, installation, accountability, and disposition of equipment, capital investment, operational energy improvements, and the establishment of new, optimized, and modernized manufacturing and production lines and layouts.

Survivability Enhancements (MOD 9): This funding supports the procurement, field application, transportation, fielding and logistical support of Active and Passive Protection Systems, countermeasures, turret mitigation, components and labor to optimize the safety and survivability of the Abrams main battle tank. These modifications correct or alleviate operational deficiencies, improve reliability and maintainability, improve performance or quality, reduce logistic support requirements, standardize equipment and training devices, prevent injury or damage to equipment, and meet environmental protection standards identified during testing, training exercises, or in combat. Production of Active Protection Systems began in FY 2018, installation and additional procurement occurred in FY 2019 and will continue in FY 2020. Application of Active Protection systems as a field modification and on new variants on the production line will be continuous.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 |

Exhibit P-3a, Individual Modification: PB 2021 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: 6406GA0700 / M1 Abrams Tank (MOD)

Date: February 2020

## Modification Number / Title:

GA0700 / M1 Abrams Tank (MOD)

MDAP/MAIS Code:

## Models of Systems Affected: Abrams Family of <br> Modification Type: Increase Performance <br> Related RDT\&E PEs:

|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | $\begin{array}{\|l} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 10: FY 2019 NDAA SEC 825 MDAP Cost Overrun |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| FY 2019 NDAA SEC 825 MDAP Cost Overrun | 1 - | - 11.433 | - 1- | 1 - | 1 - | - 1 - | - 1 | - 1 | 1 | 1 | 1 | - 11.433 |
| Subtotal: Non-Recurring | 1 | - /1.433 | 1 | 1 | 1 | 1 | 1 | - / - | - / - | - / - | 1 | - 11.433 |
| Subtotal: FY 2019 NDAA SEC 825 MDAP Cost Overrun | - / - | - /1.433 | - / - | - 1 - | 1 | - / - | - / - | - / - | - 1 | - 1 | - 1 | - /1.433 |
| Modification Item 2 of 10: Prior Year Closed Mods |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Other | - 12,842.034 | 1 - | 1 - | 1 | 1 | 1 | 1 | - 1- | - 1- | 1 | Continuing | Continuing |
| Subtotal: Non-Recurring | - /2,842.034 | 1 | 1 | - 1 - | 1 | - 1 - | 1 | - 1 - | 1 | - 1 | Continuing | Continuing |
| Subtotal: Prior Year Closed Mods | - /2,842.034 | 1 | 1 | 1 | 1 | - / - | - / - | - / - | - $/$ - | - $/$ - | Continuing | Continuing |
| Modification Item 3 of 10: Abrams Field Upgrades |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| M1A2 SEPv3 Field Modifications | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 120.340 | - 120.700 | - 142.300 | - 1 | - 183.340 |
| ARAT Weldments | -1 | - 1 | $87 / 0.829$ | 1 | 1 | - 1 | - 1 | - 1 | - 1 | 1 | - 1 | $87 / 0.829$ |
| CROWS-LP A and B Kits \& ICDU upgrade | $752 / 103.099$ | $384 / 90.187$ | $158 / 32.052$ | $87 / 17.188$ | - 1 - | $87 / 17.188$ | 87/15.724 | - 10.108 | - 10.110 | - 1 - | - 1 - | 1,468/258.468 |
| VEM | 105 / 10.514 | 1 | 1 | 1 - | 1 | 1 - | - 1 | 1 | - 1 | - 1 - | - 1 - | 105/10.514 |
| Ammunition Data Link (ADL) A4 Round /ITM | $555 / 63.884$ | 180 / 31.759 | 89 / 14.484 | $89 / 14.801$ | - 1 - | 89 / 14.801 | 89 / 15.097 | 89 / 15.399 | 89 / 15.707 | 89/16.021 | - 1 - | 1,269 / 187.152 |
| Maintenance Support Device Hard Drive | - 10.510 | - 1 - | - 1 - | - 1 - | - 1 - | 1 | 1 | 1 | 1 | 1 | Continuing | Continuing |
| Support Equipment and TPF | - /152.004 | - 117.000 | - 125.000 | - 120.782 | - 1 - | - 120.782 | - 121.215 | - 121.628 | - 122.062 | - 122.503 | Continuing | Continuing |
| System Technical Support | - 1431.042 | - 185.367 | - /100.957 | - 192.522 | - 1 - | - 192.522 | - 190.497 | - 192.934 | - 192.875 | - 191.658 | Continuing | Continuing |
| Test Support | - 15.942 | - 15.512 | - 18.607 | - /13.282 | - 1 - | - 113.282 | - 110.886 | - 111.103 | - 111.325 | - 111.552 | Continuing | Continuing |
| AMP MWO Material | - 1 - | - 1 - | - 1 - | $180 / 21.676$ | 1 | $180 / 21.676$ | $180 / 22.110$ | $180 / 22.552$ | 180 / 23.003 | 180 / 23.463 | 1 | 900/112.804 |
| Vehicle Generated Smoke | 1 - | 1 | 1 - | 180 / 5.996 | 1 | 180 / 5.996 | 180/6.116 | $180 / 6.239$ | 180 / 6.363 | 180 / 6.491 | - 1 - | $900 / 31.205$ |
| Manual Traverse Mechanism | - 1 - | 1 - | 1 | - 11.384 | - 1 - | - 11.384 | - 11.411 | - 11.440 | - 11.470 | - 11.498 | 1 | - 17.203 |
| Subtotal: Recurring | 1,412 / 766.995 | 564/229.825 | 334/181.929 | 536/187.631 | 1 | 536/187.631 | 536/183.056 | 449/191.743 | 449/193.615 | 449 / 215.486 | Continuing | Continuing |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-3a, Individual Modification: PB 2021 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:

6406GA0700 / M1 Abrams Tank (MOD)

Date: February 2020

## Modification Number / Title:

GA0700 / M1 Abrams Tank (MOD)

MDAP/MAIS Code:

Modification Type: Increase Performance
Vehicles

|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | 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) |
| Installation Kits | - 1283.400 | 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | 1 | 1 | - 1283.400 |
| CROWS-LP Engineering Support | - 16.283 | - 1 - | - 1 - | - 1 - | 1 | 1 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 16.283 |
| Subtotal: Non-Recurring | - /289.683 | 1 - | 1 - | 1 - | 1- | 1- | - / - | / - | / - | 1 | / - | - /289.683 |
| Subtotal: Abrams Field Upgrades | $\begin{array}{r} 1,412 / \\ 1,056.678 \\ \hline \end{array}$ | 564/229.825 | 334/181.929 | 536/187.631 | - 1 - | 536/187.631 | 536/183.056 | 449/191.743 | 449/193.615 | 449 / 215.486 | Continuing | Continuing |
| Modification Item 4 of 10: Engineering Change Proposal SEPv3 |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| M1A2 SEPv3 Modification Kits | 105/268.115 | 1 - | - 1- | - 1- | 1 - | - 1- | - 1- | - 1 | 1 | 1 | Continuing | Continuing |
| Subtotal: Recurring | 105/268.115 | 1 | 1 | 1 | 1 - | 1 | 1 | 1 | 1 | / | Continuing | Continuing |
| Subtotal: Engineering Change Proposal SEPv3 | 105/268.115 | 1 - | / - | 1 - | - / - | - / - | - / - | 1 | - / - | - / - | Continuing | Continuing |
| Modification Item 5 of 10: Armor |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Armor Sets | 114/160.480 | - 1 - | - 1- | - 1 - | - 1 - | - 1- | - 1 - | - 1- | - 1 - | - 1 | - 1 - | 114/160.480 |
| Next Generation Armor | 105/141.134 | 1 - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - 1 - | 1 | 105 / 141.134 |
| Subtotal: Recurring | 219/301.614 | - / - | 1 | - / - | 1 | 1 | 1 | 1 | / | - / - | - / - | $219 / 301.614$ |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Kits | 821/526.800 | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 | - 1 | - 1 - | 821/526.800 |
| Subtotal: Non-Recurring | 821/526.800 | 1 | 1 | - / - | 1 | 1 | - 1 | - 1 | - 1 | - 1 | - 1 | 821/526.800 |
| Subtotal: Armor | 1,040/828.414 | - / - | - / - | - / - | - / - | - 1 | 1 | / | / | - / | - 1 | 1,040/828.414 |
| Modification Item 6 of 10: Program/Engineering Support |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Government Program Support | - /169.459 | - /13.201 | - 16.664 | - 16.797 | 1 | - 16.797 | - 16.933 | - 17.072 | - 17.213 | - 17.358 | Continuing | Continuing |
| Contractor Program Support | - /16.223 | - 1 | - 1 | 1 | - 1 - | 1 | 1 | - 1 - | - 1 - | 1 | Continuing | Continuing |
| Government Test Support | - 126.312 | - 1 - | - 1 - | - 1- | - 1 - | 1 | 1 | - 1 - | - 1 - | 1 | Continuing | Continuing |
| Subtotal: Recurring | /211.994 | /13.201 | - /6.664 | - /6.797 | 1 | - /6.797 | - /6.933 | - 17.072 | - /7.213 | - 17.358 | Continuing | Continuing |
| Subtotal: Program/Engineering Support | /211.994 | - /13.201 | - / 6.664 | - /6.797 | - 1 - | - /6.797 | - /6.933 | - 17.072 | - 17.213 | - $/ 7.358$ | Continuing | Continuing |

Exhibit P-3a, Individual Modification: PB 2021 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: 6406GA0700 / M1 Abrams Tank (MOD)

Date: February 2020

## Modification Number / Title:

GA0700 / M1 Abrams Tank (MOD)

MDAP/MAIS Code:
 Vehicles

|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | $\begin{array}{\|c\|} \hline \text { Qty }(\text { Each ) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Modification Item 7 of 10: Power Pack Improvement and Integration |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| System Technical Support | - 1147.564 | - /19.889 | - 117.000 | - /16.607 | 1 | - /16.607 | - $/ 16.804$ | - 116.153 | - /12.333 | - 112.274 | Continuing | Continuing |
| Subtotal: Recurring | /147.564 | /19.889 | - 117.000 | - /16.607 | - / - | - /16.607 | - /16.804 | - /16.153 | - /12.333 | - /12.274 | Continuing | Continuing |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Kits | 2,691/930.300 | - 1- | - 1- | 1 - | - 1- | 1 | 1 | - 1 - | - 1 | - 1 | Continuing | Continuing |
| Subtotal: Non-Recurring | 2,691/930.300 | - / - | - $/$ - | - / - | - 1 - | - / - | - / - | - 1 - | - / - | - 1 - | Continuing | Continuing |
| Subtotal: Power Pack Improvement and Integration | $\begin{array}{r} 2,691 / \\ 1,077.864 \end{array}$ | - /19.889 | - /17.000 | /16.607 | - / - | - /16.607 | - /16.804 | - /16.153 | - /12.333 | - /12.274 | Continuing | Continuing |
| Modification Item 8 of 10: Training Devices |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Training Equipment Modifications | - / 155.173 | - 120.799 | - $/ 19.150$ | - 126.100 | 1 | - 126.100 | - 123.855 | - 121.361 | - 121.338 | - 111.758 | Continuing | Continuing |
| Subtotal: Recurring | /155.173 | - /20.799 | - /19.150 | - /26.100 | - / - | - /26.100 | - /23.855 | - /21.361 | - /21.338 | - /11.758 | Continuing | Continuing |
| Subtotal: Training Devices | /155.173 | - /20.799 | - /19.150 | - /26.100 | - / - | - /26.100 | - /23.855 | - /21.361 | - /21.338 | - /11.758 | Continuing | Continuing |
| Modification Item 9 of 10: Facilities Optimization and Maintenance |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Production Line Optimization | - / 169.981 | - / 181.679 | - 175.449 | - 157.462 | 1 - | - 157.462 | - /43.421 | - 150.750 | - 154.800 | - 197.439 | Continuing | Continuing |
| Subtotal: Recurring | - /169.981 | - /181.679 | - 175.449 | - 157.462 | 1 | - / 57.462 | - /43.421 | - / 50.750 | - 154.800 | - 197.439 | Continuing | Continuing |
| Subtotal: Facilities Optimization and Maintenance | /169.981 | /181.679 | - /75.449 | - $/ 57.462$ | - / - | - $/ 57.462$ | - /43.421 | - /50.750 | - /54.800 | - /97.439 | Continuing | Continuing |
| Modification Item 10 of 10: Survivability Enhancements |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| A-Kit Logistics Support | - 1 - | - 12.500 | - 18.753 | 1 - | - 1 - | 1 - | 1 | 1 - | - 1 | - 1 | 1 | - 111.253 |
| Turret Mitigation | - 1 - | - 1 - | - 1 - | 188/52.734 | - 1 | 188 / 52.734 | $188 / 53.788$ | 188/54.864 | 188 / 55.962 | 188/107.801 | - 1 | 940/325.149 |
| Active Protection System (APS) | - 152.000 | - 156.664 | - 1 - | - 1- | - 1 - | - 1 | - 1 | - 1- | - 1- | - I - | - 1 | - $/ 108.664$ |
| APS Loggistics Support | - 1 - | - 1 - | 1 - | - 144.682 | 1 - | - 144.682 | - /46.203 | - 145.258 | - 144.038 | - 144.919 | 1 | - 1225.100 |

Exhibit P-3a, Individual Modification: PB 2021 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: 6406GA0700 / M1 Abrams Tank (MOD)

Date: February 2020

## Modification Number / Title:

GA0700 / M1 Abrams Tank (MOD)

MDAP/MAIS Code:
Models of Systems Affected: Abrams Family of Vehicles

|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) |
| Subtotal: Recurring | 152.000 | /59.164 | - /8.753 | 188/97.416 | 7 | 188/97.416 | 188/99.991 | 188/100.122 | 188/100.000 | 188/152.720 | 1 | 940/670.166 |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Turret Mitigation | 1 - | - / 126.500 | 1 - | - 1 - | 1 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 | - / 126.500 |
| Subtotal: Non-Recurring | - / - | - /126.500 | - / - | - / - | 1 | 1 | 1 | 1 | 1 | - / - | 1 | - /126.500 |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| B-Kit Logistics Support | - 1 - | - 1 - | - 140.087 | - 1- | - 1 - | - 1- | - 1- | - 1 - | - 1 - | - 1- | - 1- | - 140.087 |
| APS | $94 / 158.921$ | $282 / 240.519$ | 1 | 1 | - 1 | - 1 | - 1 | - 1 | 1 | 1 | 1 | 376 / 399.440 |
| Subtotal: Recurring | 94/158.921 | 282/240.519 | - / 40.087 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 1 | 376/439.527 |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Countermeasures - APS | - /19.900 | - 166.032 | - 1 | 1 | 1 | - 1 | - 1 | - 1 | 1 | 1 | 1 | - 185.932 |
| Subtotal: Non-Recurring | /19.900 | - /66.032 | 7 | - / - | 7 | - / - | - / - | - / - | 1 | - / - | / | - 185.932 |
| Subtotal: Survivability Enhancements | 94/230.821 | 282/492.215 | - /48.840 | 188/97.416 | 1 | 188/97.416 | 188/99.991 | 188/100.122 | 188/100.000 | 188/152.720 | / - | $\begin{array}{r} 1,316 / \\ 1,322.125 \end{array}$ |
| Subtotal: Procurement, All Modification Items | $\begin{array}{r} \hline 5,3421 \\ 6,841.074 \end{array}$ | 846/959.041 | 334/349.032 | 724/392.013 | / - | 724/392.013 | 724/374.060 | $637 / 387.201$ | 637/389.299 | 637/497.035 | Continuing | Continuing |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 4 of 10: Engineering Change Proposal SEPv3 | 105/119.409 | 1 - | 1 - | 1 | 1 | 1 | 1 | - 1 - | 1 | 1 | Continuing | Continuing |
| Modification Item 10 of 10: Survivability Enhancements | - 1 - | 1 | $376 / 4.260$ | 1 | - 1 - | 1 | 1 | 1 | - 1 - | - 1 - | Continuing | Continuing |
| Subtotal: Installation | 105/119.409 | 1 | 376/4.260 | - 1 | - 1 | 1 | - $/$ - | - $/$ - | - 1 - | - $/$ - | Continuing | Continuing |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 6,960.483 | 959.041 | 353.292 | 392.013 | - | 392.013 | 374.060 | 387.201 | 389.299 | 497.035 | Continuing | Continuing |

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Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A / 01 / 20ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 4 of 10: Engineering Change Proposal SEPv3


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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 01 / 20 |  |  | P-1 Line Item Number / Title: 6406GA0700 / M1 Abrams Tank (MOD) |  |  | Modification Number / Title: GA0700 / M1 Abrams Tank (MOD) |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A |  |  |  | MDAP/MAIS Code: |  |  |  |
| Modification Item 7 of 10: Power Pack Improvement and Integration |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Honeywell and Allison Transmission |  |  |  | Manufacturer Location: Phoenix Arizona and Indianapolis Indiana |  |  |  |
| Administrative Leadtime (in Months): |  |  |  | Production Leadtime (in Months): |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  |  |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Contractor Support (Contract dates will vary by item and cannot be predicted) |  |  |  |  | Installati | ntity: 0 |  |

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Exhibit P-3a, Individual Modification: PB 2021 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

## Manufacturer Information

| Manufacturer Name: General Dynamics Land Systems |  |  |  | Manufacturer Location: Sterling Heights, MI |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 2 |  |  |  | Production Leadtime (in Months): 10 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Dec 2018 | Dec 2019 | Dec 2020 | Dec 2021 | Dec 2022 | Dec 2023 | Dec 2024 |
| Delivery Dates | Oct 2019 | Oct 2020 | Oct 2021 | Oct 2022 | Oct 2023 | Oct 2024 | Oct 2025 |


| Installation Information |
| :--- |
| Method of Implementation: Contract FFP |


| Installation Cost | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 <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 <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | - 1 - | 1 - | 94/1.161 | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | Continuing | Continuing |
| FY 2019 | - 1 - | 1 - | $282 / 3.099$ | - 1- | 1 - | - 1- | - 1 - | - 1- | - 1- | - 1 - | Continuing | Continuing |
| FY 2020 | - 1- | - 1 - | - 1 - | - 1- | 1 - | 1- | - 1- | - 1- | - 1- | - 1- | 1 | 1 - |
| FY 2021 | 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | 1 - | 1 |
| FY 2022 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 |
| FY 2023 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 |
| FY 2024 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - |
| FY 2025 | - 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 - | $376 / 4.260$ | - 1- | 1 - | 1 - | 1 - | - 1 - | - 1 - | - 1 | Continuing | Continuing |



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

## 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 $\quad$ Program Elements for Code B Items: N/A $\quad$ Other Related Program Elements: 0203735A

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 1,412 | 168 | 165 | 89 | - | 89 | 97 | 102 | 101 | 113 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 10,413.360 | 1,527.243 | 1,746.007 | 1,033.253 | - | 1,033.253 | 1,117.837 | 1,432.396 | 1,410.176 | 1,577.193 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | 2,064.494 | - | - | - | - | - | - | - | - | - | - | 2,064.494 |
| Net Procurement (P-1) (\$ in Millions) | 8,348.866 | 1,527.243 | 1,746.007 | 1,033.253 | - | 1,033.253 | 1,117.837 | 1,432.396 | 1,410.176 | 1,577.193 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | 2,064.494 | - | - | - | - | - | - | - | - | - | - | 2,064.494 |
| Total Obligation Authority (\$ in Millions) | 10,413.360 | 1,527.243 | 1,746.007 | 1,033.253 | - | 1,033.253 | 1,117.837 | 1,432.396 | 1,410.176 | 1,577.193 | 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) | 7,374.901 | 9,090.732 | 10,581.861 | 11,609.584 | - | 11,609.584 | 11,524.093 | 14,043.098 | 13,962.139 | 13,957.460 | Continuing | Continuing |

## Description:

The purpose of this program is to upgrade existing Abrams tank variants to the M1A2 SEPv3 tank configuration in order to enhance tank survivability, the automotive power pack, computer systems, night vision capabilities, and provide total package fielding and new equipment training. The M1A2 SEPv3 incorporates turret and hull armor upgrades, including reactive armor tiles and countermines, for enhanced crew survivability; Total Integrated Engine Revitalization (TIGER) engine and upgraded transmission for improved power pack reliability and durability; improved computer systems to include microprocessors, color flat panel displays, memory capacity, Soldier-Machine Interface (SMI), a new operating system designed to run the Common Operating Environment (COE) software; and Block 1 Second Generation Forward Looking Infra-Red (FLIR) technology in the Gunner's Primary Sight (GPS) and the Commander's Independent Thermal Viewer (CITV) Sight Assembly for improved thermal ranging night vision capabilities. The Abrams Upgrade Program will modify and upgrade the Abrams tank while improving and maintaining production processes that involve or support the Abrams Industrial Base requirements for the current and future Abrams tank.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 168 | 165 | 89 | - | 89 | 97 | 102 | 101 | 113 |
|  | Total Obligation Authority | 1,527.243 | 1,746.007 | 1,033.253 | - | 1,033.253 | 1,117.837 | 1,432.396 | 1,410.176 | 1,577.193 |
| Total: <br> Secondary Distribution | Quantity | 168 | 165 | 89 | - | 89 | 97 | 102 | 101 | 113 |
|  | Total Obligation Authority | 1,527.243 | 1,746.007 | 1,033.253 | - | 1,033.253 | 1,117.837 | 1,432.396 | 1,410.176 | 1,577.193 |


| Exhibit P-40, Budget Line Item Justification: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |  |  |
| ID Cod | e (A=Service Ready, B=Not Service Rea | 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | GA0750 / Abrams Upgrade Program | P-5a, P-21 | A |  | 1,412 / 10,413.360 | 168/1,527.243 | 165/1,746.007 | 89/1,033.253 | - 1 - | 89/1,033.253 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1,412 / 10,413.360 | 168 / 1,527.243 | 165 / 1,746.007 | 89 / 1,033.253 | - 1 - | 89 / 1,033.253 |

## *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:


 Change Proposal that addresses capability gaps on the tank fleet. The program upgrades will begin at Anniston Army Depot (ANAD) and finish at General Dynamics Land Systems (GDLS) in Lima, OH.

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

Army Acquisition Objective: 2,101
P40 quantity:
FY 2019: Actual Quantity is 176.
FY 2020: Actual Quantity is 171

Exhibit P-5, Cost Analysis: PB 2021 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: February 2020

## Item Number / Title [DODIC]:

GA0750 / Abrams Upgrade Program
MDAP/MAIS Code:

| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2019 |  |  |  | FY 2021 Base |  |  | FY 2021 OCO |  | FY 2021 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | 1,412 |  | 168 | 165 |  | 89 |  |  | - |  | 89 |  |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  | 10,413.360 |  |  |  | 1,527.243 | 1,746.007 |  | 1,033.253 |  |  | - |  | 1,033.253 |  |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  | 2,064.494 |  |  |  | - | - |  | - |  |  | - |  | - |  |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  | 8,348.866 |  |  |  | 1,527.243 | 1,746.007 |  | 1,033.253 |  |  | - |  | 1,033.253 |  |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  | 2,064.494 |  |  |  | - | - |  | - |  |  | - |  | - |  |
| Total Obligation Authority (\$ in Millions) |  |  |  |  | 10,413.360 |  |  |  | 1,527.243 | 1,746.007 |  | 1,033.253 |  |  | 1,033.253 |  |  |  |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  | $7,374.901$ |  |  |  | - | - |  | - |  |  | - |  | - |  |
| Gross/Weapon System Unit Cost (\$ in Thousands) |  |  |  |  |  |  |  |  | 9,090.732 | 10,581.861 |  | 11,609.584 |  |  | 11,609.584 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | Unit Cost (\$ 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| Flyaway Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basic Vehicle ${ }^{(t)}$ | 3,943.089 | 1,755 | 6,920.121 | 4,379.807 | 176 | 770.846 | 4,464.778 | 171 | 763.477 | 5,027.854 | 89 | 447.479 | - |  | - - | 5,027.854 | 89 | 447.479 |
| Government Furnished Equipment (GFE) | - | - | 1,557.950 | - | - | 345.083 | - | - | 456.646 | - | - | 281.874 | - |  | - | - | - | 281.874 |
| Pre-Modification Vehicle Teardown/ Refurb | - | - | 114.667 | - | - | 184.721 | - | - | 250.234 | - | - | 137.078 | - |  | - | - | - | 137.078 |
| TPF/New Equipment Training | - | - | 219.531 | - | - | 24.732 | - | - | 36.196 | - | - | 19.404 | - |  | - - | - | - | 19.404 |
| Government Support | - | - | 1,143.734 | - | - | 25.893 | - | - | 25.961 | - | - | 26.480 | - |  | - - | - | - | 26.480 |
| Transmissions | - | - | 166.470 | - | - | 50.081 | - | - | 65.812 | - | - | 34.870 | - |  | - | - | - | 34.870 |
| Forward Looking Infrared (FLIR) | - | - | 196.168 | - | - | 113.775 | - | - | 134.234 | - | - | 71.202 | - |  | - | - | - | 71.202 |
| Industrial Base <br> Mitigation Support/ <br> Facilities Optimization <br> and Maintenance | - | - | 94.719 | - | - | 10.319 | - | - | 13.446 | - | - | 14.866 | - |  | - | - | - | 14.866 |
| Subtotal: Recurring Cost | - | - | 10,413.360 | - | - | 1,525.450 | - | - | 1,746.006 | - | - | 1,033.253 | - |  | - | - | - | 1,033.253 |


| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FY 2019 NDAA SEC 825 MDAP Cost Overrun | - | - | - | - | - | 1.793 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | - | - | - | 1.793 | - | - | - | - | - | - | - | - | - | - | - | - |


| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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 <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 (\$ M) |
| Subtotal: Flyaway Cost | - | - | 10,413.360 | - | - | 1,527.243 | - | - | 1,746.006 | - | - | 1,033.253 | - | - | - | - | - | 1,033.253 |
| Gross/Weapon System Cost | 7,374.901 | 1,412 | 10,413.360 | 9,090.732 | 168 | 1,527.243 | 10,581.861 | 165 | 1,746.007 | 11,609.584 | 89 | 1,033.253 | - | - | - | 11,609.584 | 89 | 1,033.253 |

## Remarks:

FY19 unit cost = Two different variants (M1A1 SA and M1A1) were inducted. M1A1 tanks have increased costs, over M1A1 SA tanks, due to the need for new FLIR Components, new armor, and TIGER engines. Mixed variants allowed for higher M1A1 costs to be offset by lower M1A1 SA costs.

FY20 unit cost = High quantity of tanks awarded allowed for lower unit cost on GDLS production contract and FLIR components. Ongoing FMS production allows for reduced armor cost due to manufacturing efficiency. TIGER engines require major rework due to age of M1A1 tanks being inducted. Increased quantity of new gun tubes purchased due to higher washout from older M1A1 tanks being inducted.

FY21 unit cost = Higher unit cost due to lower quantity of tanks be awarded, then in previous years, for GDLS production contract and FLIR components. Loss of armor manufacturing efficiency due to no FMS armor production programs. TIGER engines require major rework due to age of M1A1 tanks being inducted.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 168 | 165 | 89 | - | 89 |
|  | Total Obligation Authority | 1,527.243 | 1,746.007 | 1,033.253 | - | 1,033.253 |
| Total: <br> Secondary Distribution | Quantity | 168 | 165 | 89 | - | 89 |
|  | Total Obligation Authority | 1,527.243 | 1,746.007 | 1,033.253 | - | 1,033.253 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost $(\$ K)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Basic Vehicle ${ }^{\left({ }^{(t)}\right.}$ |  | 2017 | GDLS / Sterling Heights, MI | SS/FPIF | TACOM-Warren | Dec 2017 | Jun 2019 | 28 | 5,939.750 | N |  |  |
| Basic Vehicle ${ }^{(\dagger)}$ |  | 2018 | GDLS / Sterling Heights, MI | SS/FPIF | TACOM-Warren | Dec 2017 | Sep 2019 | 120 | 4,656.042 | N |  |  |
| Basic Vehicle ${ }^{(+)}$ |  | 2019 | GDLS / Sterling Heights, MI | SS/FPIF | TACOM- Warren | Dec 2018 | Sep 2020 | 176 | 4,379.807 | N |  |  |
| Basic Vehicle ${ }^{(\dagger)}$ |  | 2020 | GDLS / Sterling Heights, MI | SS/FPIF | TACOM-Warren | Mar 2020 | Sep 2021 | 171 | 4,464.778 | N |  |  |
| Basic Vehicle ${ }^{(\dagger)}$ |  | 2021 | GDLS / Sterling Heights, MI | SS/FPIF | TACOM-Warren | Mar 2021 | Sep 2022 | 89 | 5,027.854 | N |  |  |

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

## Remarks:

GDLS-Prime Contractor, Sterling Heights, M
Manufactured at JSMC, Lima, OH

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \hline \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \\ & \hline \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|} \hline 0 & \mathrm{~F} \\ \mathrm{C} & \mathrm{R} \\ \mathrm{O} & \end{array}$ | FY | SERVICE | PROC QTY | $\begin{aligned} & \text { TO } 1 \\ & \text { OCT } \\ & 2019 \\ & \hline \end{aligned}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { o } \\ & \text { v } \end{aligned}$ | D E C | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \\ & \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | 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 | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { o } \\ & \text { v } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & J \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & F \\ & E \\ & E \\ & B \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & \mathrm{Y} \end{aligned}$ | J u N | J u L | A U G | $\begin{aligned} & \mathbf{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| Basic | Vehicle |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | Years D | liveries: 160 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2017 | ARMY | 28 | 19 | , | 5 | - | - | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | ARMY | 120 | 1 | 119 | 6 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | - | - | - | - | - | - |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | FMs ${ }^{(\ddagger)}$ | 351 | 18 | 333 | 9 | 19 | 21 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 21 | 14 | 14 | 14 | 14 |  |  |  |  |  |  |  | 0 |
| 1 | 2018 | Total | 471 | 19 | 452 | 15 | 30 | 32 | 34 | 34 | 34 | 34 | 34 | 35 | 35 | 35 | 23 | 21 | 14 | 14 | 14 | 14 | - | - | - | - | - | - | - | 0 |
| 1 | 2019 | ARMY | 176 | 0 | 176 | - | - | - | - | - | - | - | - | - | - | - | 12 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |  | 0 |
| 1 | 2020 | ARMY | 171 | 0 | 171 |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | 156 |
| 1 | 2021 | ARMY | 89 | 0 | 89 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 89 |
|  |  |  |  |  |  | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \end{aligned}$ | $\begin{aligned} & \hline D_{1} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \end{aligned}$ | $\begin{aligned} & \hline \mathrm{A} \\ & \mathrm{P} \end{aligned}$ | $\begin{gathered} M \\ A \end{gathered}$ | J | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{U} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \end{aligned}$ | $\begin{aligned} & \hline D_{1} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \end{aligned}$ | A <br>  <br> $\mathbf{P}$ <br> $\mathbf{R}$ | $\stackrel{M}{A}$ | J u N | J | A | S |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |
| Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  | MAX For 2021 | Initial |  |  |  | Reorder |  |  |  |
|  | MSR For 2021 | 1-8-5 For 2021 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ |  | 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 GDLS - Sterling Heights, MI | 1 | 12 | 35 | 0 | 14 | 18 | 32 | 0 | 5 | 18 | 23 |
| ${ }^{(\ddagger)}$ Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date. <br>  <br>  thousand). If the maximum quantity is equal or greater than $1,000,000,000$ all quantities are shown in billions (rounded to the nearest million). |  |  |  |  |  |  |  |  |  |  |  |

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

## 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)

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

| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 991 | 1,535 | 1,068 | - | - | - | - | - | - | - | - | 3,594 |
| Gross/Weapon System Cost (\$ in Millions) | 791.362 | 14.581 | 12.500 | - | - | - | - | - | - | - | - | 818.443 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 791.362 | 14.581 | 12.500 | - | - | - | - | - | - | - | - | 818.443 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 791.362 | 14.581 | 12.500 | - | - | - | - | - | - | - | - | 818.443 |
| (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) | 798.549 | 9.499 | 11.704 | - | - | - | - | - | - | - | - | 227.725 |

## Description:










| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2021$ Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 1,535 | 1,068 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 14.581 | 12.500 | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 1,535 | 1,068 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 14.581 | 12.500 | - | - | - | - | - | - | - |

## Justification: <br> FY 2021 Base procurement dollars in the amount of $\$ 0.000$ million.

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

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

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 359 | 300 | 227 | 214 | 60 | 274 | 315 | 308 | - | - | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 26.447 | 19.880 | 19.264 | 17.864 | 4.765 | 22.629 | 26.690 | 26.009 | - | - | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 26.447 | 19.880 | 19.264 | 17.864 | 4.765 | 22.629 | 26.690 | 26.009 | - | - | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 26.447 | 19.880 | 19.264 | 17.864 | 4.765 | 22.629 | 26.690 | 26.009 | - | - | 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) | 73.669 | 66.267 | 84.863 | 83.477 | 79.417 | 82.588 | 84.730 | 84.445 | - | - | Continuing | Continuing |

## Description:



 environments. The M3/M3E1 MAAWS is also capable of marking threat targets with smoke for supporting weapons, obscuring threat weapons and illuminating threat targets.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 244 | 189 | 176 | 60 | 236 | 277 | 270 | - | - |
|  | Total Obligation Authority | 16.461 | 18.868 | 14.878 | 4.765 | 19.643 | 23.704 | 23.254 | - | - |
| ANG | Quantity | 46 | 38 | 38 | - | 38 | 38 | 38 | - | - |
|  | Total Obligation Authority | 2.707 | 0.396 | 2.986 | - | 2.986 | 2.986 | 2.755 | - | - |
| AR | Quantity | 10 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.712 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 300 | 227 | 214 | 60 | 274 | 315 | 308 | - | - |
|  | Total Obligation Authority | 19.880 | 19.264 | 17.864 | 4.765 | 22.629 | 26.690 | 26.009 | - | - |

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

## 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 Vehicles$-\quad$ SYSTE

P-1 Line Item Number / Title:
3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G13101 / MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM | P-5a | A |  | 359 / 26.447 | 300 / 19.880 | 227 / 19.264 | 214 / 17.864 | $60 / 4.765$ | 274/22.629 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 359 / 26.447 | 300 / 19.880 | 227 / 19.264 | 214 / 17.864 | $60 / 4.765$ | 274/22.629 |

*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



 urban and rural operational environments.
 Operation Inherent Resolve's (OIR) mission of supporting Iraqi Security Force operations against the Islamic State of Iraq and the Levant (ISIL).
 defense missions, domestic emergency responses, and providing military support to civil authorities.

AAO: 2,460
P40 quantity:
FY 2020: Actual quantity is 227.


| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | Unit Cost (\$K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ 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: Non Recurring Cost | - | - | - | - | - | - | - | - | 0.024 | - | - | - | - | - | 0.065 | - | - | 0.065 |
| Subtotal: Logistics Cost | - | - | - | - | - | - | - | - | 0.059 | - | - | 0.285 | - | - | 0.065 | - | - | 0.350 |
| Support - Contractor Logistics Support (CLS) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oversight | - | - | - | - | - | 0.188 | - | - | 0.241 | - | - | 0.240 | - | - | 0.055 | - | - | 0.295 |
| Subtotal: Support - <br> Contractor Logistics Support (CLS) Cost | - | - | - | - | - | 0.188 | - | - | 0.241 | - | - | 0.240 | - | - | 0.055 | - | - | 0.295 |
| Support - Initial Spares and Repair Parts Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares and Repair Parts | - | - | 1.479 | - | - | 0.381 | - | - | 0.475 | - | - | 0.475 | - | - | 0.055 | - | - | 0.530 |
| Subtotal: Support - Initial Spares and Repair Parts Cost | - | - | 1.479 | - | - | 0.381 | - | - | 0.475 | - | - | 0.475 | - | - | 0.055 | - | - | 0.530 |
| Support - New Equipment Training (NET) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment | - | - | - | - | - | 0.390 | - | - | 0.518 | - | - | 0.518 | - | - | - | - | - | 0.518 |
| Subtotal: Support - New Equipment Training (NET) Cost | - | - | - | - | - | 0.390 | - | - | 0.518 | - | - | 0.518 | - | - | - | - | - | 0.518 |
| Support - Program Management Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Government Management | - | - | 2.177 | - | - | 0.850 | - | - | 0.745 | - | - | 0.745 | - | - | - | - | - | 0.745 |
| Subtotal: Support - Program Management Cost | - | - | 2.177 | - | - | 0.850 | - | - | 0.745 | - | - | 0.745 | - | - | - | - | - | 0.745 |
| Gross/Weapon System Cost | 73.669 | 359 | 26.447 | 66.267 | 300 | 19.880 | 84.863 | 227 | 19.264 | 83.477 | 214 | 17.864 | 79.417 | 60 | 4.765 | 82.588 | 274 | 22.629 |

Remarks:
None

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 244 | 189 | 176 | 60 | 236 |
|  | Total Obligation Authority | 16.461 | 18.868 | 14.878 | 4.765 | 19.643 |
| ANG | Quantity | 46 | 38 | 38 | - | 38 |
|  | Total Obligation Authority | 2.707 | 0.396 | 2.986 | - | 2.986 |
| AR | Quantity | 10 | - | - | - | - |

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

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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, $\mathrm{B}=$ Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |
|  | Total Obligation Authority | 0.712 | - | - | - - | - |
| Total: | Quantity | 300 | 227 | 214 | $4{ }^{\text {a }}$ | 274 |
| Secondary Distribution | Total Obligation Authority | 19.880 | 19.264 | 17.864 | 4 4 4.765 | 22.629 |

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

| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$2033 A / 02 / 10$ |  |  |  | P-1 Line Item Number / Title: <br> 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI- <br> PERSONNEL WEAPON SYSTEM |  |  |  | Item Number / Title [DODIC]: <br> G13101 / MULTI-ROLE ANTI-ARMOR <br> ANTI-PERSONNEL WEAPON SYSTEM |  |  |  |  |
| Cost Elements | O c O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | $\begin{gathered} \text { Date } \\ \text { of First } \\ \text { Delivery } \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \\ & \hline \end{aligned}$ | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| M3A1 |  | 2018 | Saab Dynamics AB / Sweden | SS IIDIQ | ACC-NJ, Picatinny Arsenal, NJ | Aug 2018 | Dec 2018 | 349 | 35.000 | Y |  |  |
| M3A1 |  | 2019 | Saab Dynamics AB / Sweden | SS/IDIQ | ACC-NJ, Picatinny Arsenal, NJ | Dec 2018 | Feb 2019 | 300 | 27.460 | Y |  |  |
| M3A1 |  | 2020 | Saab Dynamics AB / Sweden | SS/IDIQ | ACC-NJ, Picatinny Arsenal, NJ | Dec 2019 | Apr 2020 | 226 | 30.537 | Y |  |  |
| M3A1 |  | 2021 | Saab Dynamics AB / Sweden | SS/IDIQ | ACC-NJ, Picatinny Arsenal, NJ | Nov 2020 | May 2021 | 214 | 32.304 | Y |  |  |
| Fire Control |  | 2018 | Aimpoint / Sweden | SS /IDIQ | ACC-NJ, Picatinny Arsenal. NJ | Aug 2018 | Dec 2018 | 349 | 29.000 | Y |  |  |
| Fire Control |  | 2019 | Aimpoint / Sweden | SS/IDIQ | ACC-NJ, Picatinny Arsenal. NJ | Dec 2018 | Feb 2019 | 300 | 28.477 | Y |  |  |
| Fire Control |  | 2020 | Aimpoint / Sweden | SS/IDDQ | ACC-NJ, Picatinny Arsenal. NJ | Dec 2019 | Apr 2020 | 226 | 31.923 | Y |  |  |
| Fire Control |  | 2021 | Aimpoint / Sweden | SS /IDIQ | ACC-NJ, Picatinny Arsenal. NJ | Dec 2020 | Apr 2021 | 214 | 34.000 | Y |  |  |
| Sub Caliber Adapter |  | 2018 | Saab Dynamics AB / Sweden | SS/IDDQ | Naval Surface Warfare Center, Crane, IN | Aug 2018 | Dec 2018 | 70 | 6.500 | Y |  |  |
| Sub Caliber Adapter |  | 2019 | Saab Dynamics AB / Sweden | SS /IDIQ | Naval Surface Warfare Center, Crane, IN | Dec 2018 | Feb 2019 | 300 | 4.300 | Y |  |  |
| Sub Caliber Adapter |  | 2020 | Saab Dynamics AB / Sweden | SS / IDIQ | Naval Surface Warfare Center, Crane, IN | Dec 2019 | Apr 2020 | 226 | 4.282 | Y |  |  |
| Sub Caliber Adapter |  | 2021 | Saab Dynamics AB / Sweden | SS /IDIQ | Naval Surface Warfare Center, Crane, IN | Dec 2020 | Apr 2021 | 214 | 6.598 | Y |  |  |
| M3 OCO |  | 2020 | Saab Dynamics AB / Sweden | SS/IDIQ | ACC-NJ, Picatinny Arsenal, NJ | Nov 2019 | Mar 2020 | 28 | 36.000 | Y |  |  |
| M3 OCO | $\checkmark$ | 2021 | Saab Dynamics AB / Sweden | SS/IDIQ | ACC-NJ, Picatinny Arsenal, NJ | Nov 2020 | May 2021 | 60 | 36.000 | Y |  |  |
| M3 OCO Fire Control |  | 2020 | Aimpoint / Sweden | SS/IDDQ | ACC-NJ, Picatinny Arsenal, NJ | Dec 2019 | Apr 2020 | 28 | 34.000 | Y |  |  |
| M3 OCO Fire Control | $\checkmark$ | 2021 | Aimpoint / Sweden | SS/IDIQ | ACC-NJ, Picatinny Arsenal. NJ | Dec 2020 | Apr 2021 | 60 | 34.000 | Y |  |  |
| M3 OCO Sub Caliber Adapter |  | 2020 | Saab Dynamics AB / Sweden | SS / IDIQ | Naval Surface Warfare Center, Crane, IN | Dec 2019 | Apr 2020 | 28 | 6.500 | Y |  |  |
| M3 OCO Sub Caliber Adapter | $\checkmark$ | 2021 | Saab Dynamics AB / Sweden | SS /IDIQ | Naval Surface Warfare Center, Crane, IN | Dec 2020 | Apr 2021 | 60 | 6.500 | Y |  |  |

Remarks:
$\mathrm{P}-21$ is not required, as all hardware items procured are COTS or COTS/NDI.
LI 3736G13101 - MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL
WEA...
UNCLASSIFIED
Army
Page 6 of 7
P-1 Line \#16

| Exhibit P-5a, Procurement History and Planning: PB 2021 Army | Date: February 2020 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $2033 A / 02 / 10$ | P-1 Line Item Number / Title: <br>  | 3736G13101 / MULTI-ROLE ANTI-ARMOR ANTI- <br> PERSONNEL WEAPON SYSTEM |

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

## 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 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 1,686 | - | - | - | - | - | - | - | - | - | 1,686 |
| Gross/Weapon System Cost (\$ in Millions) | 395.544 | 22.330 | - | - | - | - | - | - | - | - | - | 417.874 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 395.544 | 22.330 | - | - | - | - | - | - | - | - | - | 417.874 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 395.544 | 22.330 | - | - | - | - | - | - | - | - | - | 417.874 |
| (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) | - | 13.244 | - | - | - | - | - | - | - | - | - | 247.849 |

## Description:



 muzzle flash.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 1,686 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 22.330 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 1,686 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 22.330 | - | - | - | - | - | - | - | - |

## Justification: <br> FY 2021 Base procurement dollars in the amount of $\$ 0.000$ million.

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

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

## P-1 Line Item Number / Title:

6580G02200 / Mortar Systems

## 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
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 482 | 209 | 218 | 54 | 80 | 134 | 36 | 46 | 36 | 54 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | 410.636 | 24.312 | 33.026 | 10.288 | 10.460 | 20.748 | 11.678 | 11.558 | 10.018 | 16.791 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 410.636 | 24.312 | 33.026 | 10.288 | 10.460 | 20.748 | 11.678 | 11.558 | 10.018 | 16.791 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 410.636 | 24.312 | 33.026 | 10.288 | 10.460 | 20.748 | 11.678 | 11.558 | 10.018 | 16.791 | 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) | 851.942 | 116.325 | 151.495 | 190.519 | 130.750 | 154.836 | 324.389 | 251.261 | 278.278 | 310.944 | Continuing | Continuing |

## Description:



 M1101 Trailer.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 209 | 218 | 54 | 80 | 134 | 36 | 46 | 36 | 54 |
|  | Total Obligation Authority | 24.312 | 33.026 | 10.288 | 10.460 | 20.748 | 11.678 | 11.558 | 10.018 | 16.791 |
| Total: <br> Secondary Distribution | Quantity | 209 | 218 | 54 | 80 | 134 | 36 | 46 | 36 | 54 |
|  | Total Obligation Authority | 24.312 | 33.026 | 10.288 | 10.460 | 20.748 | 11.678 | 11.558 | 10.018 | 16.791 |

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

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

P-1 Line Item Number / Title:
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
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G02202 / Mtr Wpn Sys | P-5a, P-21 | A |  | 482 / 410.636 | 209 / 24.312 | 218/33.026 | 54 / 10.288 | 80 / 10.460 | $134 / 20.748$ |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 482 / 410.636 | 209 / 24.312 | 218 / 33.026 | 54 / 10.288 | 80 / 10.460 | 134/20.748 |

*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:






 operations including testing, fielding, staging, and transportation. Supports Operation Inherent Resolve (OIR).
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Acquisition Objective (AAO): 4,665

Exhibit P-5, Cost Analysis: PB 2021 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: 6580G02200 / Mortar Systems

Date: February 2020
Item Number / Title [DODIC]:
G02202 / Mtr Wpn Sys


Exhibit P-5, Cost Analysis: PB 2021 Army
Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A

|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 120mm (M121) Mortar System ${ }^{(\dagger)}$ | - | - | - | - | - | - | - | - | - | 124.730 | 18 | 2.245 | 124.730 | 2 | 0.249 | 124.730 | 20 | 2.495 |
| Subtotal: Recurring Cost | - | - | 42.008 | - | - | 19.558 | - | - | 24.996 | - | - | 6.567 | - | - | 5.431 | - | - | 11.998 |
| Subtotal: Hardware Cost | - | - | 42.008 | $\cdot$ | - | 19.558 | - | - | 24.996 | - | - | 6.567 | - | - | 5.431 | - | - | 11.998 |

## Logistics Cost

Recurring Cost

| Government ILS | - | - | 0.904 | - | - | 0.425 | - | - | 0.545 | - | - | 0.550 | - | - | - | - | - | 0.550 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Recurring Cost | - | - | 0.904 | - | - | 0.425 | - | - | 0.545 | - | - | 0.550 | - | - | - | - | - | 0.550 |
| Subtotal: Logistics Cost | - | - | 0.904 | - | - | 0.425 | - | - | 0.545 | - | - | 0.550 | - | - | - | - | - | 0.550 |
| Support - Acceptance Testing Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Acceptance Test | - | - | 1.185 | - | - | 0.540 | - | - | 0.750 | - | - | 0.300 | - | - | 0.250 | - | - | 0.550 |
| First Article Test | - | - | 1.145 | - | - | 0.450 | - | - | 0.701 | - | - | 0.296 | - | - | 0.750 | - | - | 1.046 |
| Subtotal: Support Acceptance Testing Cost | - | - | 2.330 | - | - | 0.990 | - | - | 1.451 | - | - | 0.596 | - | - | 1.000 | - | - | 1.596 |



## Remarks:

**Note** Unit Costs appear to be increased in FY21 due to reflecting procurement items at a system level.
**Note** 120mm (M121) Mortar System reflects AMPV (mounted) \& 120mm (M120A1) Mortar System (dismounted)

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| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  | P-1 Line Item Number / Title: 6580G02200 / Mortar Systems |  |  | Item Number / Title [DODIC]: G02202 I Mtr Wpn Sys |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |
| Army | Quantity | 209 | 218 | 54 | 4 8 80 | 134 |
|  | Total Obligation Authority | 24.312 | 33.026 | 10.288 | - 10.460 | 20.748 |
| Total: Secondary Distribution | Quantity | 209 | 218 | 54 | 54 | 134 |
|  | Total Obligation Authority | 24.312 | 33.026 | 10.288 | 8 10.460 | 20.748 |

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

| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |
| :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> 6580G02200 / Mortar Systems |

Date: February 2020

## Item Number / Title [DODIC]:

G02202 / Mtr Wpn Sys

| Cost Elements | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{O} \end{aligned}$ | FY | Contractor and Location | $\qquad$ | Location of PCO | Award Date | Date of First Delivery | Qty <br> (Each) | Unit Cost $(\$ K)$ | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 60 mm Cannon Tubes |  | 2019 | Watervilet Arsenal / Watervliet, NY | MIPR | Picatinny Arsenal, NJ | Feb 2019 | Oct 2019 | 22 | 30.261 | Y |  |  |
| 60 mm Cannon Tubes |  | 2020 | Watervilet Arsenal / Watervliet, NY | MIPR | Picatinny Arsenal, NJ | Feb 2020 | Oct 2020 | 0 | 0.000 | Y |  |  |
| 60 mm Mortar System |  | 2019 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2019 | Jul 2021 | 22 | 21.611 | Y |  |  |
| 60 mm Mortar System |  | 2020 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2020 | Jul 2022 | 0 | 0.000 | Y |  |  |
| 81 mm Cannon Tubes |  | 2019 | Watervilet Arsenal / Watervliet, NY | MIPR | Picatinny Arsenal, NJ | Feb 2019 | Oct 2019 | 101 | 26.547 | Y |  |  |
| 81mm Cannon Tubes |  | 2020 | Watervilet Arsenal / Watervliet, NY | MIPR | Picatinny Arsenal, NJ | Feb 2020 | Oct 2020 | 84 | 35.000 | Y |  |  |
| 81mm Mortar System |  | 2019 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2019 | Jul 2021 | 101 | 16.791 | Y |  |  |
| 81mm Mortar System |  | 2020 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2020 | Jul 2022 | 84 | 17.480 | Y |  |  |
| 120 mm Cannon Tubes |  | 2019 | Watervilet Arsenal / Watervliet, NY | MIPR | Picatinny Arsenal, NJ | Feb 2019 | Oct 2019 | 63 | 34.193 | Y |  |  |
| 120 mm Cannon Tubes |  | 2020 | Watervilet Arsenal / Watervliet, NY | MIPR | Picatinny Arsenal, NJ | Feb 2020 | Oct 2020 | 85 | 40.000 | Y |  |  |
| 120 mm Mortar System ${ }^{(\dagger)}$ |  | 2019 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2019 | Jul 2021 | 63 | 49.156 | Y |  |  |
| 120 mm Mortar System ${ }^{(\dagger)}$ |  | 2020 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2020 | Jul 2022 | 85 | 53.744 | Y |  |  |
| 120 mm Mortar System ${ }^{(\dagger)}$ |  | 2021 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2021 | Jul 2023 | 18 | 135.077 | Y |  |  |
| 120 mm Mortar System | $\checkmark$ | 2021 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2021 | Jul 2023 | 20 | 135.077 | Y |  |  |
| M326 Mortar Stowage Kit |  | 2019 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Feb 2019 | Mar 2020 | 23 | 98.664 | Y |  |  |
| M326 Mortar Stowage Kit |  | 2020 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Feb 2020 | Mar 2021 | 49 | 103.169 | Y |  |  |
| M326 Mortar Stowage Kit |  | 2021 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2021 | Jul 2023 | 18 | 105.000 | Y |  |  |
| M326 Mortar Stowage Kit | $\checkmark$ | 2021 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2021 | Jul 2023 | 20 | 105.000 | Y |  |  |
| Light Tactical Trailer | $\checkmark$ | 2021 | Sierra Army Depot / Sierra, NV | MIPR | Picatinny Arsenal, NJ | Mar 2021 | Mar 2022 | 38 | 10.000 | Y |  |  |
| 120mm (M121) Mortar System | $\checkmark$ | 2021 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2021 | Jul 2023 | 2 | 124.730 | Y |  |  |
| 120mm (M121) Mortar System |  | 2021 | EFW Inc / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2021 | Jul 2023 | 18 | 124.730 | Y |  |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 2033A / } 02 \text { / } 10$ |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 6580G02200 / Mortar Systems |  |  |  |  |  |  |  |  |  |  |  | Item Number / Title [DODIC]: G02202 I Mtr Wpn Sys |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2019 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |
| 0  <br>  F <br> C R <br> O $\#$ | FY | SERVICE | PROC QTY | $\begin{gathered} \text { TO } 1 \\ \text { OCT } \\ 2018 \end{gathered}$ | $\begin{gathered} \text { DUL } \\ \text { DSE } \\ \text { AS OF } \\ 1 \text { OC } \end{gathered}$ | O c T | N O v | D E C | J A N | $\underset{\mathrm{E}}{\mathrm{E}}$ | M A R | A P R | M A Y | J u N | J u L | A U G | S E P | O c T | N | D E C | J A N | $\underset{\mathrm{E}}{\mathrm{E}}$ | M A R | A $\mathbf{P}$ $\mathbf{R}$ | M A Y | J u N | J u L | A U G | S E P |  |
| 120 m | Morta | System |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | ears D | eliveries: 158 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2019 | ARMY | 63 | 0 | 63 |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 63 |
| 1 | 2020 | ARMY | 85 | 0 | 85 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | 85 |
| 1 | 2021 | ARMY | 18 | 0 | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 18 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> P <br> R | M A Y | J | J u L | A | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O C T | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline J \\ & \text { A } \\ & \mathrm{N} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A $\mathbf{P}$ R | M A Y | J U N | J | A | S <br> $\mathbf{E}$ <br> $\mathbf{P}$ |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> G02202 / Mtr Wpn Sys |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 6580G02200 / Mortar Systems |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | $\stackrel{\text { PROC }}{\text { OTY }}$ | $\begin{aligned} & \text { PROR } \\ & \text { TO } 1 \\ & \text { OCT } \\ & 2020 \end{aligned}$ | $\begin{gathered} \text { BAL } \\ \text { DS OF } \\ 1 \text { OCT } \end{gathered}$ | 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 | J U | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | $\begin{aligned} & A \\ & U \\ & \mathbf{U} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{v} \end{aligned}$ | D E C | $\begin{aligned} & J \\ & \text { J } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{R} \end{aligned}$ | M A Y | J u N | J u L | A U G | $\begin{aligned} & \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| 120 m | Morta | System |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prior | ears D | eliveries: 158 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2019 | ARMY | 63 | 0 | 63 | - | - | - | - | - | - | - | - | - | 12 | 12 | 12 | 14 | 13 |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | ARMY | 85 | 0 | 85 | - | - | - | - | - | - | - |  | - | - | - | - | - | - | - | - | - | - | - | - | - | 25 | 25 | 26 | 9 |
| 1 | 2021 | ARMY | 18 | 0 | 18 |  |  |  |  |  | A - | - |  | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | 18 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | A M A R | A | M | U | U | A U G | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline N \\ & \hline \\ & \text { V } \end{aligned}$ | D E C | J A N | $\begin{aligned} & \hline F \\ & E \\ & E \end{aligned}$ | M A R | A <br> P <br> R | M | J U N | J | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  | P-1 Line Item Number / Title: <br> 6580G02200 / Mortar Systems |  |  |  |  | Item Number / Title [DODIC]: G02202 I Mtr Wpn Sys |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2021 1-8-5 For 2021 |  | MAX For 2021 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | $\begin{gathered} \text { Total } \\ \text { After Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | EFW Inc - Fort Worth, TX | 60 | 100 |  | 165 | 15 | 5 | 28 | 33 | 3 | 5 | 28 | 33 |

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

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

## P-1 Line Item Number / Title:

8181 G01501 / XM320 Grenade Launcher Module (GLM)

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
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 246.489 | 18.197 | 0.717 | 5.969 | - | 5.969 | 9.907 | 11.872 | 14.441 | 17.982 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 246.489 | 18.197 | 0.717 | 5.969 | - | 5.969 | 9.907 | 11.872 | 14.441 | 17.982 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 246.489 | 18.197 | 0.717 | 5.969 | - | 5.969 | 9.907 | 11.872 | 14.441 | 17.982 | 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) | - | - | 4.780 | 6.337 | - | 6.337 | 5.173 | 5.708 | 4.530 | 5.574 | Continuing | Continuing |

## Description:







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

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 18.197 | 0.717 | 5.969 | - | 5.969 | 9.907 | 11.872 | 14.441 | 17.982 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 18.197 | 0.717 | 5.969 | - | 5.969 | 9.907 | 11.872 | 14.441 | 17.982 |


*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:



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

M320's Grenade Launcher Army Acquisition Objective (AAO) of 73,024 was met in FY2016 (WTCV 2016 funds with D.O. 0005 for 4,164 M320A1s (Grow the Army))


| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <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: 8181G01501 / 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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | Unit Cost (\$K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Logistics Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Logistics Support (ILS) | - | - | 2.251 | - | - | 0.020 | - | - | - | - |  | - | - | - | - | - | - | - |
| New Equipment Training (NET) | - | - | 0.356 | - | - | 0.010 | - | - | - | - |  | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - |  | 2.607 | - | - | 0.030 | - |  | - | - |  | - | - | - |  | - | - | - |
| Subtotal: Logistics Cost | - | - | 2.607 | - | - | 0.030 | - | - | - | - |  | - | - | - | - | - | - | - |
| Support - Acceptance Testing Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| First Article Test | - | - | 5.921 | - | - | 1.482 | - | - | - | - |  | - | - | - | - | - | - | - |
| Subtotal: Support Acceptance Testing Cost | - | - | 5.921 | - | - | 1.482 | - | - | - | - |  | - | - | - | - | - | - | - |
| Support - Program Management Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Government Management | - | - | 6.341 | - | - | 0.575 | - | - | 0.717 | - |  | 0.742 | - | - | - | - | - | 0.742 |
| Subtotal: Support - Program Management Cost | - | - | 6.341 | - | - | 0.575 | - | - | 0.717 | - |  | 0.742 | - | - | - | - | - | 0.742 |
| Support - System Engineering Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| System Engineering | - | - | 17.700 | - | - | - | - | - | - | - |  | - | - | - | - | - | - | - |
| Subtotal: Support - System Engineering Cost | - | - | 17.700 | - | - | - | - | - | - | - |  | - | - | - | - | - | - | - |
| Support - Training Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment | - | - | 5.580 | - | - | 0.023 | - | - | - | - |  | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { Subtotal: Support - Training } \\ & \text { Cost } \end{aligned}$ | - | - | 5.580 | - | - | 0.023 | - | - | - | - |  | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | - | - | 246.489 | - | - | 18.197 | 4.780 | - | 0.717 | 6.337 |  | 5.969 | - | - | - | 6.337 | - | 5.969 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  |  |  |  |  |  | $\text { FY } 2019$ |  | FY 2020 |  |  | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Base } \\ \hline \end{gathered}$ |  | $\begin{aligned} & \text { FY } 2021 \\ & \text { OcO } \end{aligned}$ |  |  | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |  |
| Army |  | Quantity |  |  |  |  |  |  |  |  | - |  | - |  |  | - |  | - |
|  |  | Total Obligation Authority |  |  |  |  |  |  |  |  | 0.717 |  | 5.969 |  |  | - |  | 5.969 |
| Total: <br> Secondary Distribution |  |  | Quantity |  |  |  |  |  |  |  | - |  | - |  |  | - |  | - |
|  |  |  | bligation A | Authority |  |  |  |  |  |  | 0.717 |  | 5.969 |  |  | - |  | 5.969 |
| $\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$2033 A / 02 / 10$ |  |  |  | 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 or 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 |
| M320A1 Grenade Launcher (GL) |  | 2019 | Wilcox / Portsmouth, NH | C/FFP | ACC-Picatinny, Picatinny, NJ | Jun 2019 | Dec 2019 | 9,422 | 1.700 | Y |  |  |
| Grenadier Sighting System (GSS) |  | 2021 | Wilcox / Portsmouth, NH | C/FFP | ACC-Picatinny, Picatinny, NJ | Dec 2020 | Mar 2021 | 2,150 | 1.900 | Y |  |  |

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

## P-1 Line Item Number / Title:

8190G01506 / Precision Sniper Rifle

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | 493 | 536 | - | 536 | 650 | 331 | 269 | 266 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 5.747 | 10.137 | - | 10.137 | 12.100 | 6.285 | 5.213 | 5.994 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 5.747 | 10.137 | - | 10.137 | 12.100 | 6.285 | 5.213 | 5.994 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 5.747 | 10.137 | - | 10.137 | 12.100 | 6.285 | 5.213 | 5.994 | 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) | - | - | 11.657 | 18.912 | - | 18.912 | 18.615 | 18.988 | 19.379 | 22.534 | Continuing | Continuing |

## Description:







 as crew served and indirect fire weapons virtually undetected in any light condition.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | 446 | 536 | - | 536 | 650 | 331 | 269 | 266 |
|  | Total Obligation Authority | - | 5.123 | 10.137 | - | 10.137 | 12.100 | 6.285 | 5.213 | 5.994 |
| ANG | Quantity | - | 47 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 0.624 | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | 493 | 536 | - | 536 | 650 | 331 | 269 | 266 |
|  | Total Obligation Authority | - | 5.747 | 10.137 | - | 10.137 | 12.100 | 6.285 | 5.213 | 5.994 |


| Exhibit P-40, Budget Line Item Justification: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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: 8190G01506 / Precision Sniper Rifle |  |  |  |  |
| ID Cod | e (A=Service Ready, B=Not Service Ready) | Program Elements for Code B Items: 0604601A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| $\begin{aligned} & \text { Exhibitit } \\ & \text { Typpe } \end{aligned}$ | 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 | G01506 / Precision Sniper Rifle | P-5a | B |  | 1 | 1 | 493/5.747 | $536 / 10.137$ | - 1- | 536/10.137 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 1 - | $493 / 5.747$ | $536 / 10.137$ | - 1 - | $536 / 10.137$ |

## *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:



 enhances the sniper role in supporting combat operations and improves sniper survivability.

AAO: 3,131
 defense missions, domestic emergency responses, and providing military support to civil authorities.

P40 quantity:
FY 2020: Actual Quantity is 357

Exhibit P-5, Cost Analysis: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity:

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

Date: February 2020

## Item Number / Title [DODIC]:

G01506 / Precision Sniper Rifle

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | 493 | 536 | - | 536 |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 5.747 | 10.137 | - | 10.137 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 5.747 | 10.137 | - | 10.137 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 5.747 | 10.137 | - | 10.137 |
| (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) | - | - | 11.657 | 18.912 | - | 18.912 |

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

|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ 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 <br> (\$ M) | Unit Cost (\$ K) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |
| Flyaway Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Precision Sniper Rifle ${ }^{(\dagger)}$ | - | - | - | - | - | - | 12.493 | 357 | 4.460 | 15.869 | 536 | 8.506 | - | - | - | 15.869 | 536 | 8.506 |
| Engineering Support | - | - | - | - | - | - | - | - | 0.309 | - | - | 0.385 | - | - | - | - | - | 0.385 |
| Integrated Logistics Support (ILS) | - | - | - | - | - | - | - | - | 0.179 | - | - | 0.229 | - | - | - | - | - | 0.229 |
| Total Package Fielding (TPF) | - | - | - | - | - | - | - | - | 0.140 | - | - | 0.178 | - | - | - | - | - | 0.178 |
| New Equipment Training (NET) | - | - | - | - | - | - | - | - | 0.659 | - | - | 0.839 | - | - | - | - | - | 0.839 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | 5.747 | - | - | 10.137 | - | - | - | - | - | 10.137 |
| Subtotal: Flyaway Cost | - | - | - | - | - | - | - | - | 5.747 | - | - | 10.137 | - | - | - | - | - | 10.137 |
| Gross/Weapon System Cost | - | - | - | - | - | - | 11.657 | 493 | 5.747 | 18.912 | 536 | 10.137 | - | - | - | 18.912 | 536 | 10.137 |

## Remarks:

 upon award. Anticipating NDI/ COTS solution; therefore, no P21 Form is needed at this time.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | 446 | 536 | - | 536 |
|  | Total Obligation Authority | - | 5.123 | 10.137 | - | 10.137 |

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| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ |
| ANG | Quantity | - | 47 | - | - | - |
|  | Total Obligation Authority | - | 0.624 | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | 493 | 536 | - | 536 |
|  | Total Obligation Authority | - | 5.747 | 10.137 | - | 10.137 |

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

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## Remarks:

 weapon. Base contract award is for thirty (30) RDT\&E weapons required for qualification activities.
A separate TBD contract for the rifle scope will be pursued in FY 20 and issued/fielded with the weapon.

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

## P-1 Line Item Number / Title:

$8194 G 01507$ / COMPACT SEMI-AUTOMATIC SNIPER SYSTEM

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

Program Elements for Code B Items: 0604601A
Other Related Program Elements: N/A
ID Code (A=Serice Ready, $B=$ Not Service Ready): B
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 5,365 | 671 | - | - | - | - | - | - | - | - | 6,036 |
| Gross/Weapon System Cost (\$ in Millions) | - | 46.236 | 9.860 | 0.999 | - | 0.999 | - | - | - | - | - | 57.095 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 46.236 | 9.860 | 0.999 | - | 0.999 | - | - | - | - | - | 57.095 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 46.236 | 9.860 | 0.999 | - | 0.999 | - | - | - | - | - | 57.095 |
| (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) | - | 8.618 | 14.694 | - | - | - | - | - | - | - | - | 9.459 |

## Description:




 the National Defense Authorization Act for Fiscal Year 18, Pub. L, 115-91, Section 111

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 3,381 | 322 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 32.348 | 7.417 | 0.999 | - | 0.999 | - | - | - | - |
| ANG | Quantity | 1,957 | 339 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 13.699 | 2.373 | - | - | - | - | - | - | - |
| AR | Quantity | 27 | 10 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.189 | 0.070 | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 5,365 | 671 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 46.236 | 9.860 | 0.999 | - | 0.999 | - | - | - | - |

## Justification:

FY 2021 Base procurement dollars in the amount of $\$ .999$ million supports the fielding of Squad Designated Marksman Rifle (SDMR) quantities purchased out of $F Y 2020$ funding, scheduled to be fielded in FY2022 and FY2023. Funding also supports Integrated Logistics, Program Management and System Engineering. The SDMR provides Infantry, Scout and Engineer squads the capability to engage enemy personnel with accurate rifle fire. SDMR is a Commercial-Off-The-Shelf (COTS) weapon.

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 mis emergency responses, and providing military support to civil authorities

AAO: 6,291

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

## P-1 Line Item Number / Title:

8201G13501 / Carbine

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 110,046 | 96,986 | 23,033 | - | - | - | - | - | - | - | - | 230,065 |
| Gross/Weapon System Cost (\$ in Millions) | 176.065 | 69.606 | 31.514 | 7.411 | - | 7.411 | 4.341 | - | - | - | - | 288.937 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 176.065 | 69.606 | 31.514 | 7.411 | - | 7.411 | 4.341 | - | - | - | - | 288.937 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 176.065 | 69.606 | 31.514 | 7.411 | - | 7.411 | 4.341 | - | - | - | - | 288.937 |
| (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) | 1.600 | 0.718 | 1.368 | - | - | - | - | - | - | - | - | 1.256 |

## Description:







| Secondary Distribution |  | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 54,061 | 1,846 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 38.675 | 1.183 | 7.411 | - | 7.411 | 4.341 | - | - | - |
| ANG | Quantity | 15,067 | 9,572 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 10.847 | 14.255 | - | - | - | - | - | - | - |
| AR | Quantity | 27,858 | 11,615 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 20.084 | 16.076 | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 96,986 | 23,033 | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 69.606 | 31.514 | 7.411 | - | 7.411 | 4.341 | - | - | - |

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

## 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:

8201G13501 / Carbine

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G13503 / M4A1 CARBINE | P-5a | A |  | 110,046 / 176.065 | 96,986 / 69.606 | 23,033 / 31.514 | - 17.411 | - 1 - | - 17.411 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 110,046 / 176.065 | 96,986 / 69.606 | 23,033 / 31.514 | - 17.411 | - 1 - | 17.411 |

*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 2021 Base procurement dollars in the amount of $\$ 7.411$ million supports the fielding of M4A1 carbines. Funding also procures the 5.56 mm Enhanced Performance Magazine (EPM), a


 terminal performance of the M4 and M16 family of weapons.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

M4A1's Army Acquisition Objective (AAO) of 845,563 will be met in FY 2020.

Exhibit P-5, Cost Analysis: PB 2021 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: 8201G13501 / Carbine

Date: February 2020
Item Number / Title [DODIC]:
G13503 / M4A1 CARBINE

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Procurement Quantity (Units in Each) | 110,046 | 96,986 | 23,033 | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 176.065 | 69.606 | 31.514 | 7.411 | - | 7.411 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 176.065 | 69.606 | 31.514 | 7.411 | - | 7.411 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 176.065 | 69.606 | 31.514 | 7.411 | - | 7.411 |
| (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) | 1.600 | 0.718 | 1.368 | - | - | - |

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

|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$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 <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost $(\$ K)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Flyaway Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. M4A1 Carbine ${ }^{(+)}$ | 0.726 | 211,492 | 153.574 | 0.622 | 96,986 | 60.343 | 0.641 | 38,683 | 24.779 | - | - | - | - | - | - | - | - |  |
| 2. Colt's Royalty payment | - | - | 1.719 | - | - | 0.880 | - | - | 0.265 | - | - | - | - | - | - | - | - | - |
| 6. M4A1 Technical Manuals | - | - | 0.238 | - | - | 0.147 | - | - | 0.150 | - | - | 0.200 | - | - | - | - | - | 0.200 |
| Transportation Cost | - | - | 0.287 | - | - | 0.170 | - | - | 0.300 | - | - | 0.500 | - | - | - | - | - | 0.500 |
| Subtotal: Recurring Cost | - | - | 155.818 | - | - | 61.540 | - | - | 25.494 | - | - | 0.700 | - | - | - | - | - | 0.700 |
| Subtotal: Flyaway Cost | - | - | 155.818 | - | - | 61.540 | - | - | 25.494 | - | - | 0.700 | - | - | - | - | - | 0.700 |

Package Fielding Cos
Recurring Cost

| 7. Total Package Fielding (TPF) | - | - | 2.566 | - | - | 1.178 | - | - | 0.463 | - | - | 2.000 | - | - | - | - | - | 2.000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Recurring Cost | - | - | 2.566 | - | - | 1.178 | - | - | 0.463 | - | - | 2.000 | - | - | - | - | - | 2.000 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8. Integrated Logistics Support (ILS) | - | - | 0.938 | - | - | 0.282 | - | - | 0.152 | - | - | 0.300 | - | - | - | - | - | 0.300 |
| Subtotal: Non Recurring Cost | - | - | 0.938 | - | - | 0.282 | - | - | 0.152 | - | - | 0.300 | - | - | - | - | - | 0.300 |
| Subtotal: Package Fielding Cost | - | - | 3.504 | - | - | 1.460 | - | - | 0.615 | - | - | 2.300 | - | - | - | - | - | 2.300 |

Support - Program Management Cost

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A/ 02 / 10 |  |  | P-1 Line Item Number / Title: 8201G13501 / Carbine |  |  |  | Item Number / Title [DODIC]: G13503 / M4A1 CARBINE |  |  |  |  |
|   <br>  O <br> Cost Elements 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 |
| 1. M4A1 Carbine | 2019 | FN Manufacturing / Columbia | C/FFP | ACC Picatinny, Picatinny, NJ | Feb 2019 | May 2019 | 48,493 | 0.640 | Y |  |  |
| 1. M4A1 Carbine | 2019 | Colt / West Hartford | C/FFP | ACC Picatinny, Picatinny, NJ | Feb 2019 | Apr 2019 | 48,493 | 0.640 | Y |  |  |
| 1. M4A1 Carbine | 2020 | FN Manufacturing / Columbia | C/FFP | ACC Picatinny, Picatinny, NJ | Dec 2019 | May 2020 | 19,342 | 0.640 | Y |  |  |
| 1. M4A1 Carbine | 2020 | Colt / West Hartford | C/FFP | ACC Picatinny, Picatinny, NJ | Dec 2019 | Apr 2020 | 19,341 | 0.640 | Y |  |  |

## Remarks:

The FY2019 and 2020 projected quantities are being competed between vendors (FN \& Colt) for each delivery order.

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

## 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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | 3,983 | - | 3,983 | 11,370 | 29,888 | 46,129 | 54,056 | Continuing | Continuing |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 35.822 | - | 35.822 | 98.620 | 216.372 | 336.047 | 383.868 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | - | 35.822 | - | 35.822 | 98.620 | 216.372 | 336.047 | 383.868 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 35.822 | - | 35.822 | 98.620 | 216.372 | 336.047 | 383.868 | 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 | - | 8.994 | 8.674 | 7.239 | 7.285 | 7.101 | Continuing | Continuing |

## Description:

This program is one of the top six 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). This program supports the Soldier Lethality Cross Functional Team (CFT).
Next Generation Squad Weapons (NGSW) is a family of products that includes a Rifle (NGSW-R) and an Automatic Rifle (NGSW-AR) that integrate an advanced fire control (NGSW-FC) and common 6.8mm ammunition. The NGSW-R and NGSW-AR are the planned replacements for select weapons system for individual soldiers, squads, and/or platoons, capable of defeating protected and unprotected threats. The
 time; suppressed flash/sound signature; improved controllability and mobility.




| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | 3,983 | - | 3,983 | 11,370 | 25,628 | 33,322 | 44,895 |
|  | Total Obligation Authority | - | - | 35.822 | - | 35.822 | 98.620 | 180.245 | 251.705 | 340.531 |
| ANG | Quantity | - | - | - | - | - | - | 3,978 | 12,402 | 9,161 |
|  | Total Obligation Authority | - | - | - | - | - | - | 33.787 | 82.837 | 43.337 |
| AR | Quantity | - | - | - | - | - | - | 282 | 405 | - |
|  | Total Obligation Authority | - | - | - | - | - | - | 2.340 | 1.505 | - |
| Total: | Quantity | - | - | 3,983 | - | 3,983 | 11,370 | 29,888 | 46,129 | 54,056 |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 Vehicles |  |  |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0604601A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G14513 / Next Generation Squad Weapon - Fire Control | P-5a, P-21 | B |  | 1 - | 1 | - 1 - | 3,983/35.822 | 1 | 3,983/35.822 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1. | 1 | - 1 - | 3,983/35.822 | - 1 - | 3,983/35.822 |

${ }^{*}$ 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:



 providing an adjusted aim point.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Army Procurement Objective (APO):
Next Generation Squad Weapons - Fire Control (NGSW-FC): 121,773
Next Generation Squad Weapons - Rifle (NGSW-R): 108,568
Next Generation Squad Weapons - Automatic Rifle (NGSW-AR): 13,205
Next Generation Squad Weapon is a new start in FY2021.

| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 <br> Weapon - Fire Control |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2019 |  | FY 2020 |  | FY 2021 Base |  |  | FY 2021 OCO |  | FY 2021 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  |  |  | - |  |  | 3,983 |  |  |  | - | 3,983 |  |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  |  |  | - |  |  | 35.822 |  |  |  | - | 35.822 |  |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  | - |  |  |  | - | - |  |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  | 35.822 |  |  |  | - | 35.822 |  |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  | - |  |  |  | - | - |  |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  | 35.822 |  |  |  | - | 35.822 |  |
| (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) |  |  |  |  |  | - |  | - |  | - |  | 8.994 |  |  | - |  | 8.994 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | $\begin{aligned} & \text { Unit Cost } \\ & (\$ K) \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ K)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$ M) | $\underset{(\$ K)}{\text { Unit Cost }}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Hardware Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recuring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Next Generation Squad Weapons Fire Control ${ }^{(t)}$ | - | - | - | - | - | - | - | - | - | 7.750 | 3,983 | 30.868 | - |  | - - | 7.750 | 3,983 | 30.868 |
| Engineering Data | - | - | - | - | - | - | - | - | - | - | - | 0.453 | - |  | - - | - | - | 0.453 |
| Technical Publications | - | - | - | - | - | - | - | - | - | - | - | 0.935 | - |  | - - | - | - | 0.935 |
| Engineering Change Proposals | - |  | - | - | - | - | - | - | - | - | - | 0.125 | - |  | - - | - | - | 0.125 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 32.381 | - |  | - | - | - | 32.381 |
| Subtotal: Hardware Cost | - | - | - | $\cdot$ | - | - | $\cdot$ | - | - | $\cdot$ | - | 32.381 | $\cdot$ |  | - - | $\cdot$ | $\cdot$ | 32.381 |
| Package Fielding Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Package Fielding | - | - | - | - | - | - | - | - | - | - | - | 0.717 | - |  | - - | - | - | 0.717 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 0.717 | - |  | - - | - | - | 0.717 |
| Subtotal: Package Fielding Cost | - | - |  | - | - | - | - | - | - | - | - | 0.717 | - |  | - - | - | - | 0.717 |
| Support - New Equipment Training (NET) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment | - | - | - | - | - | - | - | - | - | - | - | 0.582 | - |  | - - | - | - | 0.582 |
| Subtotal: Support - New Equipment Training (NET) Cost | - | - | - | - | - | - | - | - | - | - | - | 0.582 | - |  | - - | - | - | 0.582 |
| Support - System Engineering Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LI 8205G14510 - Next Generation Squad Weapon Army |  |  |  |  | UNCLASSIFIED Page 4 of 9 |  |  |  |  |  |  | P-1 Line \#23 |  |  |  |  |  | 178 |

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| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 2033A / } 02 \text { / } 10$ |  |  |  |  |  | P-1 Line Item Number / Title: 8205G14510 / Next Generation Squad Weapon |  |  |  |  |  |  |  | Item Number / Title [DODIC]: G14513 / Next Generation Squad Weapon - Fire Control |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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 <br> Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ K) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$M) |
| System Engineering | - |  |  | - | - | . | - | - | - | - | - | 1.773 | - | - | - | - | - | 1.773 |
| Subtotal: Support - System Engineering Cost | - | - | - | - | - | - | - | - | - | - | - | 1.773 | - | - | - | - | - | 1.773 |
| Support - System Test and Evaluation Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test and Evaluation Support | - | - | - | - | - | - | - | - | - | - | - | 0.369 | - | - | - | - | - | 0.369 |
| Subtotal: Support - System Test and Evaluation Cost | - | - | - | - | - | - | - | - | - | - | - | 0.369 | - | - | - | - | $\cdot$ | 0.369 |
| Gross/Weapon System Cost | - | - | - | - | - | - | - | - | - | 8.994 | 3,983 | 35.822 | - | - | - | 8.994 | 3,983 | 35.822 |
| Remarks: <br> N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  |  |  |  |  |  | FY 2019 |  | FY 2020 |  |  | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ |  | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ |  |  | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |  |
| Army |  | Quantity |  |  |  |  |  |  |  |  | - |  | 3,983 |  |  | - |  | 3,983 |
|  |  | Total Obligation Authority |  |  |  |  |  |  |  |  | - |  | 35.822 |  |  | - |  | 35.822 |
| Total: <br> Secondary Distribution |  |  | Quantity |  |  |  |  |  |  |  | - |  | 3,983 |  |  | - |  | 3,983 |
|  |  |  | Total Obligation Authority |  |  |  |  |  |  |  | - |  | 35.822 |  |  | - |  | 35.822 |

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

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |  |  |
| Cost Elements | 0 <br> C <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award <br> Date | Date of First Delivery | $\underset{(\text { Each })}{\text { Qty }}$ | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Next Generation Squad Weapons Fire Control ${ }^{(+)}$ |  | 2021 | TBD Contractor / TBD | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Jul 2021 | Apr 2022 | 3,983 | 7.750 | N |  | Mar 2021 |

${ }^{( }{ }^{(t)}$ indicates the presence of a P-21
Remarks:
N/A

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| Exhibit P-21, Production Schedule: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <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 Each) |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \hline \text { B } \\ & \text { A } \\ & \text { L } \\ & A \\ & \text { N } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |
| O  <br>  F <br> C  <br> C R <br> O $\#$ | FY | SERVICE | PROC QTY | $\begin{array}{\|c\|} \hline \text { PRIOR } \\ \text { TO } 1 \\ \text { OCT } \\ 2020 \end{array}$ | $\begin{gathered} \mathrm{BAL} \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | - | N O v | D E c | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A <br>  <br> P <br> R | M | J N | J u L | A U G | S E P | 0 c T | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | N | F E B | M <br>  <br> R | A P R | M A Y | J U | ${ }_{\text {J }}^{\text {u }}$ | A U G | S E P |  |
| Next | Eeneratio | on Squad We | apons Fire | Control |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2021 | ARMY | 3,983 | 0 | 3,983 |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | 225 | 225 | 225 | 400 | 400 | 400 | 2,108 |
|  |  |  |  |  |  | O c c | N O v | D E c | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> R | M A Y | J u N | J | A | S E P | O c T | N O V | D E C | J A N | F E B | M A R | A <br>  <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 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <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 Each) |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
|  | F | SERVICE | PROC OTY | $\begin{aligned} & \text { TO } 1 \\ & \text { OCT } \\ & \text { OCT } \end{aligned}$ | $\begin{aligned} & \text { DUL } \\ & \text { DUE } \\ & \text { AS OF } \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | I | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | A <br>  <br> $\mathbf{P}$ <br> R | M A Y | J N | J | A | S E P | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A P R | M A Y | J U | ${ }_{\text {J }}^{\text {u }}$ | A | S E P |  |
| Next | Generat | on Squad We | pons Fire | Control |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 12021 | ARMY | 3,983 | 1,875 | 2,108 | 400 | 400 | 400 | 400 | 400 | 108 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | O c T | N O v | D E c | J A N | F E B | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A P R | M A Y | N | ${ }_{\text {J }}^{\text {u }}$ | A | S E P | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A P R | M A Y | J U N | ${ }_{\text {J }}^{\text {J }}$ | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2021 Army ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2021 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2021 | 1-8-5 For 2021 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total <br> After Oct 1 |
| 1 | TBD Contractor - TBD | 100 | 400 | 1,600 | 6 | 9 | 9 | 18 | 1 | 3 | 7 | 10 |

Remarks:
N/A
" 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 2021 Army
Date: February 2020

## P-1 Line Item Number / Title:

8310G04700 / Common Remotely Operated Weapons Station

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
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 2,276.979 | 21.604 | 28.189 | 24.534 | - | 24.534 | - | - | - | - | - | 2,351.306 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 2,276.979 | 21.604 | 28.189 | 24.534 | - | 24.534 | - | - | - | - | - | 2,351.306 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 2,276.979 | 21.604 | 28.189 | 24.534 | - | 24.534 | - | - | - | - | - | 2,351.306 |
| (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:






 for accurate fire on the move.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 21.604 | 28.189 | 24.534 | - | 24.534 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 21.604 | 28.189 | 24.534 | - | 24.534 | - | - | - | - |

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

## 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:
8310G04700 / Common Remotely Operated Weapons Station

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

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | G04700 / Common Remotely Operated Weapons Station | P-5a | A |  | - 12,276.979 | - 121.604 | - 128.189 | - 124.534 | - 1- | 124.534 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 12,276.979 | - 121.604 | - 128.189 | - 124.534 | 1 - | 124.534 |

*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 2021 Base procurement dollars in the amount of $\$ 24.534$ million supports the Active Army by converting CROWS systems to the current configuration for fielding, Javelin capability, and increased lethality. Funds also procure platform integration kits, appended trainers, diagnostic kits, and other ancillary equipment to support ongoing fielding to Active Army units.
 camera or thermal camera. The laser range finder and three-axis stabilization allows for accurate fire on the move.

 II was approved in October 2015 addressing requirements for the next generation of CROWS.
 defense missions, domestic emergency responses, and providing military support to civil authorities.


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| Exhibit P-5, Cost Analysis: PB 2021 Army |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> G04700 / Common Remotely Operated Weapons Station |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 8310G04700 / Common Remotely Operated Weapons Station |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | Unit Cost (\$ 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) |  | $\underset{(\$ K)}{\text { Unit Cost }} \underset{\substack{\text { Qty } \\ \text { (Each) }}}{\text { ( }}$ |  | 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) |
| New Equipment Training | - | - | 42.496 | - | . | 0.040 | - | - |  | 2.280 | - |  | 0.010 | - | . | - | - |  | 0.010 |
| CROWS Technology Refresh | - | - | - | - | - | 1.830 | - | - |  | 3.400 | - |  | 2.000 | - | - | - | - |  | 2.000 |
| ATC Sodtware Test | - | - | - | - | - | 0.450 | - |  |  | - | - |  | 0.350 | - | - | - | - | - | 0.350 |
| Subtotal: Recurring Cost | - | - | 2,276.979 | - | - | 21.604 | - | - |  | 28.189 | - |  | 13.134 | - | - | - | - | - | 13.134 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| First Article Test (FAT) | - | - | - | - | - | - | - | - |  | - | - |  | 11.400 | - | - | - | - | - | 11.400 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - |  | - | - |  | 11.400 | - | - | - | - |  | 11.400 |
| Subtotal: Flyaway Cost | - | - | 2,276.979 | $\cdot$ | - | 21.604 | - | - |  | 28.189 | - |  | 24.534 | - | - | - | - | - | 24.534 |
| Gross/Weapon System Cost | - | - | 2,276.979 | - | - | 21.604 | - | - |  | 28.189 | - |  | 24.534 | - | - | - | - |  | 24.534 |
| Secondary Distribution |  |  |  |  |  |  | FY 2019 |  |  | FY 2020 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ |  |  | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ |  |  |  |  |  |  |
| Army |  | Quantity |  |  |  |  |  |  |  |  |  |  |  |  | - |  | - |  |  | - |  |  |
|  |  | Total Obligation Authority |  |  |  |  |  |  |  |  |  |  |  |  | 28.189 |  | 24.534 |  |  | - |  | 24.534 |
| Total: <br> Secondary Distribution |  | Quantity |  |  |  |  |  |  |  | 28.189 |  |  |  | - |  |  | - |  | - |
|  |  |  |  |  |  |  | 21.604 |  |  |  |  |  | 24.534 |  |  |  | - |  | 24.534 |

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 10 |  |  |  | P-1 Line Item Number / Title: <br> 8310G04700 / Common Remotely Operated Weapons Station |  |  |  | Item Number / Title [DODIC]: <br> G04700 / Common Remotely Operated Weapons Station |  |  |  |  |
| Cost Elements | 0 <br> C <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty <br> (Each) | Unit Cost (\$ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| CROWS Post-Production conversion |  | 2021 | TBD / TBD | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Mar 2021 | Mar 2022 | 12 | 27.000 | N |  |  |
| Platform Integration Kits |  | 2019 | IBES TEK / Butler, PA | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Sep 2019 | Mar 2020 | 205 | 3.566 | Y |  |  |
| Platform Integration Kits |  | 2020 | TBD / TBD | C/FFP | ACC-NJ, Picatinny Arsenal, NJ | Dec 2019 | Jun 2020 | 225 | 16.338 | Y |  |  |

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

## P-1 Line Item Number / Title: <br> 8635G15325 / Handgun

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 39,449 | 193,980 | - | - | - | - | - | - | - | - | - | 233,429 |
| Gross/Weapon System Cost (\$ in Millions) | 10.565 | 48.251 | 6.422 | 4.662 | - | 4.662 | 5.126 | - | - | - | - | 75.026 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 10.565 | 48.251 | 6.422 | 4.662 | - | 4.662 | 5.126 | - | - | - | - | 75.026 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 10.565 | 48.251 | 6.422 | 4.662 | - | 4.662 | 5.126 | - | - | - | - | 75.026 |
| (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) | 0.268 | 0.249 | - | - | - | - | - | - | - | - | - | 0.321 |

## Description:





 users via modular grips and access to all controls with one hand.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | 128,261 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 30.873 | 6.422 | 4.662 | - | 4.662 | 5.126 | - | - | - |
| ANG | Quantity | 46,663 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 12.296 | - | - | - | - | - | - | - | - |
| AR | Quantity | 19,056 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 5.082 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 193,980 | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 48.251 | 6.422 | 4.662 | - | 4.662 | 5.126 | - | - | - |

## Justification:





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

## 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:

3000GB3000 / MK-19 Grenade Machine Gun MODS

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 44.754 | 1.684 | 3.737 | 6.444 | - | 6.444 | 11.666 | 14.369 | - | - | - | 82.654 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 44.754 | 1.684 | 3.737 | 6.444 | - | 6.444 | 11.666 | 14.369 | - | - | - | 82.654 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 44.754 | 1.684 | 3.737 | 6.444 | - | 6.444 | 11.666 | 14.369 | - | - | - | 82.654 |
| (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) | 141.180 | 14.903 | - | 5.989 | - | 5.989 | 6.510 | 7.092 | - | - | - | 15.525 |

## Description:









 setting for the 40 mm High Velocity Air Burst (HE-AB) capability for the MK19 currently under development.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.684 | 3.737 | 6.444 | - | 6.444 | 11.666 | 14.369 | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.684 | 3.737 | 6.444 | - | 6.444 | 11.666 | 14.369 | - | - |

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

## 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): B |  | Program Elements for Code B Items: 0604601A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GB3000 / MK-19 Grenade Machine Gun MODS (Increase Performance) |  | B |  | - / 44.754 | - $/ 1.684$ | - 13.737 | - 16.444 | -1 | - 16.444 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 144.754 | - 11.684 | - 13.737 | - 16.444 | - 1 | - 16.444 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GB3000 / MK-19 Grenade Machine Gun MODS (Increase Performance) |  | B |  | - / 11.666 | - / 14.369 | 1 | 1 - | - 1 | - / 82.654 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 11.666 | - /14.369 | - 1 - | - 1 - | - 1 | - 182.654 |

*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:



 effective engagement time at extended ranges while retaining the capability of short range, transition fire.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Exhibit P-3a, Individual Modification: PB 2021 Army

## Appropriation / Budget Activity / Budget Sub Activity:

 2033A/ 02 / 20
## P-1 Line Item Number / Title: 3000GB3000 / MK-19 Grenade Machine Gun MODS

## Date: February 2020

## Modification Number / Title:

GB3000 / MK-19 Grenade Machine Gun MODS

| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 44.754 | 1.684 | 3.737 | 6.444 | - | 6.444 | 11.666 | 14.369 | - | - | - | 82.654 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 44.754 | 1.684 | 3.737 | 6.444 | - | 6.444 | 11.666 | 14.369 | - | - | - | 82.654 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 44.754 | 1.684 | 3.737 | 6.444 | - | 6.444 | 11.666 | 14.369 | - | - | - | 82.654 |
| (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) | 141.180 | 14.903 | - | 5.989 | - | 5.989 | 6.510 | 7.092 | - | - | - | 15.525 |

## Description:









 setting for the 40 mm High Velocity Air Burst (HE-AB) capability for the MK19 currently under development

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - |  |
|  | Total Obligation Authority | 1.684 | 3.737 | 6.444 | - | 6.444 | 11.666 | 14.369 | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.684 | 3.737 | 6.444 | - | 6.444 | 11.666 | 14.369 | - | - |





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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20 |  |  | P-1 Line Item Number / Title: 3000GB3000 / MK-19 Grenade Machine Gun MODS |  |  | Modification Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  | MDAP/MAIS Code: |  |  |  |
| Modification Item 1 of 7: Tactical Engagement Simulator (TES) |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: NA |  |  |  | Manufacturer Location: NA |  |  |  |
| Administrative Leadtime (in Months): 5 |  |  |  | Production Leadtime (in Months): 8 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  |  |  |  |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Installed by Troops |  |  |  | Installation Quantity: 0 |  |  |  |

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20 |  |  | P-1 Line Item Number / Title: <br> 3000GB3000 / MK-19 Grenade Machine Gun MODS |  |  | Modification Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  | MDAP/MAIS Code: |  |  |  |
| Modification Item 4 of 7: MK19 GMG MOD 5 Kits -Improved Rear Sights |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| Administrative Leadtime (in Months): 9 |  |  |  | Production Leadtime (in Months): 10 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Mar 2019 | Mar 2020 | Mar 2021 | Mar 2022 | Mar 2023 |  |  |
| Delivery Dates | Jan 2020 | Jan 2021 | Jan 2022 | Jan 2023 | Jan 2024 |  |  |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Installed by Troops |  |  |  |  | Installati | ntity: 0 |  |

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20 |  |  | P-1 Line Item Number / Title: 3000GB3000 / MK-19 Grenade Machine Gun MODS |  |  | Modification Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  | MDAP/MAIS Code: |  |  |  |
| Modification Item 5 of 7: Mounted Machine Gun Optic (MMO) |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| Administrative Leadtime (in Months): 1 |  |  |  | Production Leadtime (in Months): 4 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Mar 2019 | Mar 2020 | Mar 2021 | Mar 2022 | Mar 2023 |  |  |
| Delivery Dates | Sep 2019 | Sep 2020 | Sep 2021 | Sep 2022 | Sep 2023 |  |  |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Installed by Troops |  |  |  | Installation Quantity: 0 |  |  |  |

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20 |  |  | P-1 Line Item Number / Title: 3000GB3000 / MK-19 Grenade Machine Gun MODS |  |  | Modification Number / Title: GB3000 / MK-19 Grenade Machine Gun MODS |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  |  | MDAP/MAIS Code: |  |  |  |
| Modification Item 7 of 7: HE-AB Programmer Unit |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: TBD |  |  |  | Manufacturer Location: TBD |  |  |  |
| Administrative Leadtime (in Months): 5 |  |  |  | Production Leadtime (in Months): 6 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates |  |  |  | Mar 2022 | Mar 2023 |  |  |
| Delivery Dates |  |  |  | Sep 2022 | Sep 2023 |  |  |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): TBD |  |  |  | Installation Quantity: 0 |  |  |  |

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

## P-1 Line Item Number / Title:

3005GZ1700 / M777 Mods

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

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 147.917 | 3.086 | 2.367 | 10.983 | - | 10.983 | - | - | - | - | - | 164.353 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 147.917 | 3.086 | 2.367 | 10.983 | - | 10.983 | - | - | - | - | - | 164.353 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 147.917 | 3.086 | 2.367 | 10.983 | - | 10.983 | - | - | - | - | - | 164.353 |
| (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:









 obsolescent replacement of electronic components in its digital fire control system, since it has been in the field for more than ten years.
 components, and interoperability upgrades including M-Code satellite signal in support of the M777A2 program.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.086 | 2.367 | 10.983 | - | 10.983 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.086 | 2.367 | 10.983 | - | 10.983 | - | - | - | - |

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

## 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

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | GZ1700 / M777 Mods (Increase Performance) |  | A |  | - /147.917 | - 13.086 | - 12.367 | - /10.983 | - 1- | - /10.983 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 147.917 | 13.086 | - 12.367 | - /10.983 | - 1 - | - $/ 10.983$ |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-3a | GZ1700 / M777 Mods (Increase Performance) |  | A |  | - 1 - | - 1 - | - 1 | - 1 - | - 1 | - /164.353 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 | - 1 - | - 1 - | 1 | - 1 | - / 164.353 |

*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:



 Chief of Section Display (CSD-R).

Net funding increase of $\$ 8.616$ million from FY 2020 to FY2021 reflects the continued modernization efforts to keep the M777A2 supportable and secure and acceleration of retrofit activities.
 defense missions, domestic emergency responses, and providing military support to civil authorities."

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| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 147.917 | 3.086 | 2.367 | 10.983 | - | 10.983 | - | - | - | - | - | 164.353 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 147.917 | 3.086 | 2.367 | 10.983 | - | 10.983 | - | - | - | - | - | 164.353 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 147.917 | 3.086 | 2.367 | 10.983 | $\bullet$ | 10.983 | - | - | - | - | - | 164.353 |
| (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:

Mod 1- (Retrofit and Composite Fielding Activities) Funding will support field retrofits of previously contracted Engineering Change Proposals for the Improved Power Conditioning Control Module (I-PCCM), Hydraulic Power Assist Kit (HyPAK), Muzzle Velocity Sensor System (MVSS), Mission Computer (MSC-R), and Chief of Section Display (CSD-R)

Mod 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. These components are required to support security and obsolescence issues.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.086 | 2.367 | 10.983 | - | 10.983 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.086 | 2.367 | 10.983 | - | 10.983 | - | - | - | - |

Exhibit P-3a, Individual Modification: PB 2021 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: February 2020

## Modification Number / Title:

GZ1700 / M777 Mods

Models of Systems Affected: M777A2

|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{array}{c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 4: Retrofit and Composite Fielding Activities |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Retrofit and Composite Fielding Activiti | - 123.441 | - 11.822 | - 10.881 | - 12.300 | 1 - | - 12.300 | - 1- | - 1- | - 1- | - 1- | - 1 | - 128.444 |
| Subtotal: Recurring | - /23.441 | - $/ 1.822$ | - 10.881 | - 12.300 | 1 | - 12.300 | / - | 1 | - 1 | - 1 | - 1 | - /28.444 |
| Subtotal: Retrofit and Composite Fielding Activities | - /23.441 | - /1.822 | - 10.881 | - /2.300 | 1 | - 12.300 | - 1 | - 1 | - 1 | - / - | - 1 - | - /28.444 |
| Modification Item 2 of 4: Digitial Fire Control System Modifications |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Software Integration | - 12.700 | - 1- | - 1- | 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 12.700 |
| Engineering Change Proposal | - 13.582 | - 1 - | - 10.630 | - 18.683 | - 1 - | - 18.683 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - $/ 12.895$ |
| Electronic Communication Components | $490 / 9.287$ | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1- | - 1 - | - 1 - | - 1 - | $490 / 9.287$ |
| Subtotal: Non-Recurring | 490/15.569 | / - | - 10.630 | - 18.683 | - 1- | - 18.683 | - 1 | - 1 | - 1 | - 1 | - 1 | $490 / 24.882$ |
| Subtotal: Digitial Fire Control System Modifications | 490 / 15.569 | - 1 | - 10.630 | - $/ 8.683$ | 1 | - 18.683 | 1 | - 1 | - 1 | - / - | - 1 | 490/24.882 |
| Modification Item 3 of 4: Program Management |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Program Management | - 11.798 | - 11.264 | - 10.856 | - 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1 | - 13.918 |
| Subtotal: Recurring | - 11.798 | - 11.264 | - 10.856 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - $/ 3.918$ |
| Subtotal: Program Management | - /1.798 | - /1.264 | - 10.856 | - / | - 1 | / | - / - | - / - | 1 | - / | - / | - $/ 3.918$ |
| Modification Item 4 of 4: Previous Modifications |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Non-Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Previous Modifications | - /107.109 | - 1- | - 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 | - /107.109 |
| Subtotal: Non-Recurring | - /107.109 | - 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | -1 | - 1 | - /107.109 |
| Subtotal: Previous Modifications | - /107.109 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1- | - 1- | - 1 - | - /107.109 |
| Subtotal: Procurement, All Modification Items | 490/147.917 | - 13.086 | - /2.367 | - /10.983 | 1 | - /10.983 | 1 | - $/$ | - $/$ | - $/$ | - $/$ | 490/164.353 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - 1 - | - / - | - 1 - | - / - | - 1 - | - / - | - 1 | - / - | - / - | - / - | - / - |

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

## P-1 Line Item Number / Title:

3010GB3007 / M4 Carbine Mods -

## 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
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 913.674 | 38.075 | 17.595 | 4.824 | - | 4.824 | 4.899 | 4.404 | 4.405 | - | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 913.674 | 38.075 | 17.595 | 4.824 | - | 4.824 | 4.899 | 4.404 | 4.405 | - | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 913.674 | 38.075 | 17.595 | 4.824 | - | 4.824 | 4.899 | 4.404 | 4.405 | - | 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) | 4.816 | 0.397 | - | - | - | - | - | - | - | - | Continuing | Continuing |

## Description:






 Carbines to M4A1 Carbine configuration to include the M4A1 heavy barrel assembly and full auto trigger mechanism and adding new ambidextrous fire control selector assembly.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 22.147 | 6.015 | 4.824 | - | 4.824 | 4.899 | 4.404 | 4.405 | - |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 14.336 | 10.689 | - | - | - | - | - | - | - |
| AR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.592 | 0.891 | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 38.075 | 17.595 | 4.824 | - | 4.824 | 4.899 | 4.404 | 4.405 | - |

## Justification:

## Exhibit P-40, Budget Line Item Justification: PB 2021 Army

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




 M4A1 carbine as well as increase the difficulty of enemy forces to easily distinguish the Close Combat Force (CFT) and other units.
 domestic emergency responses, and providing military support to civil authorities.

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

## P-1 Line Item Number / Title:

3015GB4000 / M2 50 Cal Machine Gun MODS

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

Program Elements for Code B Items: 0604601A
Other Related Program Elements: N/A
ID Code (A=Service Ready, B=Not Service Ready): A

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 385.177 | 19.098 | 6.090 | - | - | - | - | - | - | - | - | 410.365 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 385.177 | 19.098 | 6.090 | - | - | - | - | - | - | - | - | 410.365 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 385.177 | 19.098 | 6.090 | - | - | - | - | - | - | - | - | 410.365 |
| (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) | 19.762 | 7.379 | - | - | - | - | - | - | - | - | - | 18.586 |

## Description:








 systems during on the move engagement by dampening mount movement.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 16.480 | 6.090 | - | - | - | - | - | - | - |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.618 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 19.098 | 6.090 | - | - | - | - | - | - | - |

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

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

## P-1 Line Item Number / Title:

3020 GZ1290 / M249 SAW Machine Gun MODS

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

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

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

| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 219.276 | 3.139 | - | - | - | - | - | - | - | - | - | 222.415 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 219.276 | 3.139 | - | - | - | - | - | - | - | - | - | 222.415 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 219.276 | 3.139 | - | - | - | - | - | - | - | - | - | 222.415 |
| (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:









| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.139 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.139 | - | - | - | - | - | - | - | - |

## Justification:

FY 2021 Base procurement dollars in the amount of $\$ 0.000$ million.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

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

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

## P-1 Line Item Number / Title:

3030 GZ1300 / M240 Medium Machine Gun MODS

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 172.192 | 6.947 | 8.000 | 6.385 | - | 6.385 | 7.992 | 7.992 | 7.992 | - | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 172.192 | 6.947 | 8.000 | 6.385 | - | 6.385 | 7.992 | 7.992 | 7.992 | - | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 172.192 | 6.947 | 8.000 | 6.385 | - | 6.385 | 7.992 | 7.992 | 7.992 | - | 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:









 and M249 machineguns. Based on recent combat experience, improvements are required to address identified shortcomings in the design and to enhance operational performance.
 subsystems the M 240 H is assigned to thereby increasing the overall survivability of the aircraft platform. Improved mounts are required to be fielded to both the UH-60 and $\mathrm{CH}-47$ platforms.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 6.947 | 8.000 | 6.385 | - | 6.385 | 7.992 | 7.992 | 7.992 | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 6.947 | 8.000 | 6.385 | - | 6.385 | 7.992 | 7.992 | 7.992 | - |

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

## 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
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
3030 GZ1300 / M240 Medium Machine Gun MODS

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

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-3a | GZ1300 / M240 Medium Machine Gun MODS (Increase Performance) |  | A |  | - / 172.192 | 16.947 | - 18.000 | - 16.385 | - 1 - | 16.385 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 172.192 | - 16.947 | - 18.000 | - 16.385 | - 1 - | 16.385 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-3a | GZ1300 / M240 Medium Machine Gun MODS (Increase Performance) |  | A |  | - 17.992 | - 17.992 | - 17.992 | - 1- | Continuing | Continuing |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 17.992 | 17.992 | - 17.992 | - 1 - | 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:


 items allow for fielding to approximately 16 Infantry Brigade Combat Teams (IBCT). M240L reduces the Soldier's combat load while allowing easier handling and movement of the weapon.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20 |  |  | P-1 Line Item Number / Title: <br> 3030GZ1300 / M240 Medium Machine Gun MODS |  |  |  |  |  | Modification Number / Title: <br> GZ1300 / M240 Medium Machine Gun MODS |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 172.192 | 6.947 | 8.000 | 6.385 | - | 6.385 | 7.992 | 7.992 | 7.992 | - | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 172.192 | 6.947 | 8.000 | 6.385 | - | 6.385 | 7.992 | 7.992 | 7.992 | - | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 172.192 | 6.947 | 8.000 | 6.385 | - | 6.385 | 7.992 | 7.992 | 7.992 | - | 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) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The M240B/L Medium Machine Gun is an infantry version of the M240 Armored Machine Gun used to replace the M60 Series Machine Gun in Light Infantry, Mechanized Infantry, Armor, Rangers, Special Forces, and select Combat Engineer units. Since the initial fielding of the M240B, various system enhancements have been identified that further improve the use of this weapon system by increasing functionality and performance capabilities, while improving training capability. These include adopting a forward rail system to mount ancillary sighting/night vision equipment, an accessory ammunition pouch, a spare barrel bag to transport and store overheated barrels, and improvements for the Lightweight Ground Mount. Additional enhancements include improved bipod, sling, short barrel, improved barrel, combat ammo pack, improved hydraulic buffer, drop-in mount cradle, collapsible buttstock, and Mounted Machine Gun Optic. These enhancements are applicable to both the M240B and M240L. M240L reduces the weight of the existing M240B by approximately 6 pounds.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - |  |
|  | Total Obligation Authority | 6.947 | 8.000 | 6.385 | - | 6.385 | 7.992 | 7.992 | 7.992 | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 6.947 | 8.000 | 6.385 | - | 6.385 | 7.992 | 7.992 | 7.992 | - |



UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2021 Army |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 2033A / 02 / 20 |  |  | P-1 Line Item Number / Title: 3030GZ1300 / M240 Medium Machine Gun MODS |  |  | Modification Number / Title: GZ1300 / M240 Medium Machine Gun MODS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  | MDAP/MAIS Code: |  |  |  |
| Modification Item 1 of 1: M240 Series System Improvements |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: N/A |  |  |  | Manufacturer Location: N/A |  |  |  |
| Administrative Leadtime (in Months): 5 |  |  |  | Production Leadtime (in Months): 7 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Mar 2019 | Mar 2020 | Mar 2021 | Mar 2022 | Mar 2023 | Mar 2024 | Mar 2025 |
| Delivery Dates | Oct 2019 | Oct 2020 | Oct 2021 | Oct 2022 | Oct 2023 | Oct 2024 | Oct 2025 |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Installed by Troops |  |  |  | Installation Quantity: 0 |  |  |  |

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

## 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

## P-1 Line Item Number / Title:

3181GZ1500 / Sniper Rifles Modifications

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 43.166 | 2.747 | 2.426 | 1.898 | - | 1.898 | 1.855 | 1.890 | 1.792 | 2.111 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 43.166 | 2.747 | 2.426 | 1.898 | - | 1.898 | 1.855 | 1.890 | 1.792 | 2.111 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 43.166 | 2.747 | 2.426 | 1.898 | - | 1.898 | 1.855 | 1.890 | 1.792 | 2.111 | 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:











 prediction systems. Upgrades also support sniper/spotter mission collaboration with information sharing of targets and better situational awareness.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.747 | 2.426 | 1.898 | - | 1.898 | 1.855 | 1.890 | 1.792 | 2.111 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.747 | 2.426 | 1.898 | - | 1.898 | 1.855 | 1.890 | 1.792 | 2.111 |

## Justification:

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

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

## P-1 Line Item Number / Title:

3181GZ1500 / Sniper Rifles Modifications

Vehicles / BSA 20: Mod of Weapons and Other Combat Veh
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0604601A
Other Related Program Elements: N/A

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





 include performing engineering studies to investigate the proposed enhancements and also to procure samples for evaluation.
 civil authorities.

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

## P-1 Line Item Number / Title:

 3640GC0401 / M119 ModificationsAppropriation / 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

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 382.787 | 5.704 | 16.269 | 2.009 | - | 2.009 | - | - | - | - | - | 406.769 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 382.787 | 5.704 | 16.269 | 2.009 | - | 2.009 | - | - | - | - | - | 406.769 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 382.787 | 5.704 | 16.269 | 2.009 | - | 2.009 | - | - | - | - | - | 406.769 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:






 to the M119A3 Howitzer.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.912 | 16.269 | 2.009 | - | 2.009 | - | - | - | - |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.792 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 5.704 | 16.269 | 2.009 | - | 2.009 | - | - | - | - |

## Justification:

FY 2021 Base procurement dollars in the amount of $\$ 2.009$ million supports:

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

## 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
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

Retrofit and installation of previously purchased hardware and software modifications. Retrofit teams will update the hardware on the firing platform to the new configurations which enhances the durability of the howitzer and addresses deficiencies in the legacy systems. Retrofit teams will also update the Digital Fire Control System (DFCS) software to the latest version which allows for more accurate and timely onplatform diagnostics. The new hardware and software will lead to higher levels of readiness.
"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

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

| 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 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 130.837 | 3.965 | 1.693 | 1.689 | - | 1.689 | 1.689 | 1.690 | 1.690 | - | - | 143.253 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 130.837 | 3.965 | 1.693 | 1.689 | - | 1.689 | 1.689 | 1.690 | 1.690 | - | - | 143.253 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 130.837 | 3.965 | 1.693 | 1.689 | - | 1.689 | 1.689 | 1.690 | 1.690 | - | - | 143.253 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | 137.290 | 15.672 | - | - | - | - | - | - | - | - | - | 118.784 |

## Description:




 pointing devices and round counters.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.965 | 1.693 | 1.689 | - | 1.689 | 1.689 | 1.690 | 1.690 | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.965 | 1.693 | 1.689 | - | 1.689 | 1.689 | 1.690 | 1.690 | - |

## Justification:


 Combat Teams (ABCTs), as well as the Special Forces Groups and Ranger Regiment.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

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

## 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:

9280GC0925 / Modifications 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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 209.679 | 6.362 | 4.327 | 2.604 | - | 2.604 | 2.360 | 2.336 | 2.713 | 3.608 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 209.679 | 6.362 | 4.327 | 2.604 | - | 2.604 | 2.360 | 2.336 | 2.713 | 3.608 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 209.679 | 6.362 | 4.327 | 2.604 | - | 2.604 | 2.360 | 2.336 | 2.713 | 3.608 | 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:



 addition, engineering studies will investigate modification and production issues of all small arms weapons.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 6.362 | 4.327 | 2.604 | - | 2.604 | 2.360 | 2.336 | 2.713 | 3.608 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 6.362 | 4.327 | 2.604 | - | 2.604 | 2.360 | 2.336 | 2.713 | 3.608 |

## Justification:




 the current system. During the year of execution additional unplanned work efforts may be required to support small arms modifications as listed in the description.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

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

## 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 138.389 | 4.571 | 3.066 | 2.763 | - | 2.763 | 2.866 | 2.974 | 3.171 | 3.196 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 138.389 | 4.571 | 3.066 | 2.763 | - | 2.763 | 2.866 | 2.974 | 3.171 | 3.196 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 138.389 | 4.571 | 3.066 | 2.763 | - | 2.763 | 2.866 | 2.974 | 3.171 | 3.196 | 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:










| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.571 | 3.066 | 2.763 | - | 2.763 | 2.866 | 2.974 | 3.171 | 3.196 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.571 | 3.066 | 2.763 | - | 2.763 | 2.866 | 2.974 | 3.171 | 3.196 |

## Justification:


 maintenance provided, these weapons exceed their stated effective life projections much faster than typical fielded weapons. Requiring the weapons to be coded out and replaced regularly.

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

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

## P-1 Line Item Number / Title:

1862 GL 3200 / Items Less Than $\$ 5.0 \mathrm{~m}$ (WOCV-WTCV)
Vehicles / BSA 30: Support Equipment \& Facilities
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A

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


 to be utilized.

The Army will procure Biathlon Rifles for the Army National Guard Biathlon Teams.



 pistols for the 11th Armored Cavalry Regiment (ACR) at the National Training Center, Ft. Irwin, California.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

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

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

 Vehicles / BSA 30: Support Equipment \& FacilitiesID 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)

Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 327.976 | 3.296 | 2.651 | 3.045 | - | 3.045 | 3.531 | 3.596 | 3.697 | 3.698 | Continuing | Continuing |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 327.976 | 3.296 | 2.651 | 3.045 | - | 3.045 | 3.531 | 3.596 | 3.697 | 3.698 | Continuing | Continuing |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 327.976 | 3.296 | 2.651 | 3.045 | - | 3.045 | 3.531 | 3.596 | 3.697 | 3.698 | 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:




 Center (YTC), Yuma Proving Ground, AZ.



 Initiative.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.296 | 2.651 | 3.045 | - | 3.045 | 3.531 | 3.596 | 3.697 | 3.698 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.296 | 2.651 | 3.045 | - | 3.045 | 3.531 | 3.596 | 3.697 | 3.698 |

## Justification:

FY 2021 Base procurement dollars in the amount of $\$ 3.045$ million support the following:

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

 Vehicles / BSA 30: Support Equipment \& FacilitiesID 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


 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.
 GPS Base, Front-end Processor, Data Collectors and Electronic Total Station. This effort will greatly improve ATC's ability to support all test events that require GPS surveying in real time.

 M-1 Abrams and 155mm Howitzers.
 of advanced tactical vehicles and weapon systems.

 cathodes, insulators, and various cabling and subassemblies. These effort will help WSTC meet regulatory, customer, and/or evolving mission requirements.
 defense missions, domestic emergency responses and providing military support to civil authorities.

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

## P-1 Line Item Number / Title:

4010GC0076 / Small Arms Equipment (Soldier Enh Prog)

## 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 Ele | ents for Cod | B Items: N |  |  | Other Relat | Program E | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 114.846 | 1.640 | - | - | - | - | - | - | - | - | - | 116.486 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 114.846 | 1.640 | - | - | - | - | - | - | - | - | - | 116.486 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 114.846 | 1.640 | - | - | - | - | - | - | - | - | - | 116.486 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 funding provides the mean of procuring lighter, more lethal infantry weapons and various types of equipment designed to increase Soldier's survivability and lethality.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.640 | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.640 | - | - | - | - | - | - | - | - |

## Justification: <br> FY 2021 Base procurement dollars in the amount of $\$ 0.000$ million.

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


[^0]:    P-121PB: FY 2021 President's Budget (Published Version), as of January 27, 2020 at 14:04:04

[^1]:    P-121PB: FY 2021 President's Budget (Published Version), as of January 27, 2020 at 14:04:04

[^2]:    P-121PB: FY 2021 President's Budget (Published Version), as of January 27, 2020 at 14:04:04

[^3]:    $\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

[^4]:    $\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

[^5]:    ${ }^{(t)}$ indicates the presence of a P-21

[^6]:    ${ }^{(\dagger)}$ indicates the presence of a P-5a

[^7]:    ${ }^{(\dagger)}$ indicates the presence of a P-5a

[^8]:    Justification:
    FY 2021 base procurement dollars in the amount of $\$ 0.00$ million.

