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**Department of Defense
Fiscal Year (FY) 2021 Budget Estimates**

February 2020



Army

Justification Book of
Missile Procurement, Army

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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.

MISSILE PROCUREMENT, ARMY

Appropriation Language

For construction, procurement, production, modification, and modernization of Missiles, equipment, including ordnance, spare parts, and accessories therefore; specialized equipment; expansion of public and private plants, including the land necessary therefore and such lands and interests therein, may be acquired, and construction prosecuted therein prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; \$4,332,600,000 to remain available for obligation until September 30, 2023.

The Fiscal Year (FY) 2021 Overseas Contingency Operations funding can be separated into the following categories:

- OCO for Direct War Costs (\$431,921,000): 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 (\$449,671,000): 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.

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

15 Jan 2020

| Appropriation | FY 2019 (Base + OCO) | FY 2020 Base Enacted | FY 2020 OCO Enacted | FY 2020 Emergency |
|------------------------------|-------------------------|-------------------------|------------------------|----------------------|
| Missile Procurement, Army | 4,896,060 | 2,995,673 | 1,423,589 | |
| Total Department of the Army | 4,896,060 | 2,995,673 | 1,423,589 | |

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

15 Jan 2020

| Appropriation | FY 2020 Total Enacted | FY 2021 Base | FY 2021 OCO for Base Requirements | FY 2021 OCO for Direct War and Enduring Costs |
|------------------------------|--------------------------|-----------------|---|---|
| Missile Procurement, Army | 4,419,262 | 3,491,507 | | 881,592 |
| Total Department of the Army | 4,419,262 | 3,491,507 | | 881,592 |

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

15 Jan 2020

| Appropriation | FY 2021 Total OCO | FY 2021 Total (Base + OCO) |
|------------------------------|-------------------------|----------------------------------|
| Missile Procurement, Army | 881,592 | 4,373,099 |
| Total Department of the Army | 881,592 | 4,373,099 |

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

15 Jan 2020

Appropriation: Missile Procurement, Army

| Budget Activity | FY 2019 (Base + OCO) | FY 2020 Base Enacted | FY 2020 OCO Enacted | FY 2020 Emergency |
|--------------------------------------|-------------------------|-------------------------|------------------------|----------------------|
| 02. Other Missiles | 3,521,758 | 2,443,813 | 1,082,558 | |
| 03. Modification of Missiles | 1,338,946 | 514,823 | 341,031 | |
| 04. Spares and Repair Parts | 27,737 | 26,444 | | |
| 05. Support Equipment and Facilities | 7,619 | 10,593 | | |
| Total Missile Procurement, Army | 4,896,060 | 2,995,673 | 1,423,589 | |

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

15 Jan 2020

Appropriation: Missile Procurement, Army

| Budget Activity | FY 2020 Total Enacted | FY 2021 Base | FY 2021 OCO for Base Requirements | FY 2021 OCO for Direct War and Enduring Costs |
|--------------------------------------|--------------------------|-----------------|---|---|
| 02. Other Missiles | 3,526,371 | 2,721,591 | | 783,158 |
| 03. Modification of Missiles | 855,854 | 755,848 | | 98,434 |
| 04. Spares and Repair Parts | 26,444 | 5,090 | | |
| 05. Support Equipment and Facilities | 10,593 | 8,978 | | |
| Total Missile Procurement, Army | 4,419,262 | 3,491,507 | | 881,592 |

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

15 Jan 2020

Appropriation: Missile Procurement, Army

| Budget Activity ----- | FY 2021 Total OCO ----- | FY 2021 Total (Base + OCO) ----- |
|--------------------------------------|----------------------------------|---|
| 02. Other Missiles | 783,158 | 3,504,749 |
| 03. Modification of Missiles | 98,434 | 854,282 |
| 04. Spares and Repair Parts | | 5,090 |
| 05. Support Equipment and Facilities | | 8,978 |
| Total Missile Procurement, Army | 881,592 | 4,373,099 |

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Department of the Army
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 (Dollars in Thousands)

15 Jan 2020

Appropriation: 2032A Missile Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2019 (Base + OCO) | | FY 2020 Base Enacted | | FY 2020 OCO Enacted | | FY 2020 Emergency | | S |
|------------------------------------|--|------------|-------------------------|-----------|-------------------------|-----------|------------------------|---------|----------------------|------|---|
| | | | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | e |
| | | | | | | | | | | | c |
| Budget Activity 02: Other Missiles | | | | | | | | | | | |
| Surface-to-Air Missile System | | | | | | | | | | | |
| 1 | System Integration and Test Procurement | A | | 105,395 | | 107,157 | | | | | U |
| 2 | M-SHORAD - Procurement | A | | | 10 | 75,000 | 22 | 158,300 | | | U |
| 3 | MSE Missile | | 240 | 1,131,276 | 138 | 664,499 | 9 | 37,938 | | | U |
| 4 | PRECISION STRIKE MISSILE (PRSM) | A | | | | | | | | | U |
| 5 | INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | A | | 197,822 | | 9,337 | | | | | U |
| Air-To-Surface Missile System | | | | | | | | | | | |
| 6 | Hellfire Sys Summary | A | 2034 | 193,674 | 2298 | 189,284 | 2604 | 236,265 | | | U |
| 7 | Joint Air-to-Ground MSLS (JAGM) | | 721 | 256,462 | 494 | 199,295 | | | | | U |
| 8 | Long Range Precision Munition | A | | | | | | | | | U |
| Anti-Tank/Assault Missile Sys | | | | | | | | | | | |
| 9 | Javelin (AAWS-M) System Summary | | 1247 | 245,485 | 672 | 138,405 | 25 | 4,389 | | | U |
| 10 | TOW 2 System Summary | A | 1228 | (139,011) | 1460 | (118,458) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-19,949) | | | | | | | U |
| | | | | 119,062 | | 118,458 | | | | | |
| 11 | Guided MLRS Rocket (GMLRS) | | 7668 | 975,507 | 5124 | 744,810 | 3087 | 431,596 | | | U |
| 12 | MLRS Reduced Range Practice Rockets (RRPR) | | 2214 | 20,964 | 2982 | 27,555 | | | | | U |
| 13 | High Mobility Artillery Rocket System (HIMARS) | | 17 | 171,138 | | | | | | | U |
| 14 | ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM | B | | | 131 | 170,013 | 101 | 130,770 | | | U |

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Department of the Army
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 Total Obligational Authority
 (Dollars in Thousands)

15 Jan 2020

Appropriation: 2032A Missile Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2020 Total Enacted | | FY 2021 Base | | FY 2021 OCO for Base Requirements | | FY 2021 OCO for Direct War and Enduring Costs | | S e c |
|------------------------------------|--|---------------|--------------------------|-----------|-----------------|-----------|---|------|---|---------|-------------|
| | | | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | |
| Budget Activity 02: Other Missiles | | | | | | | | | | | |
| Surface-to-Air Missile System | | | | | | | | | | | |
| 1 | System Integration and Test Procurement | A | | 107,157 | | | | | | | U |
| 2 | M-SHORAD - Procurement | A | 32 | 233,300 | 50 | 378,654 | | | 22 | 158,300 | U |
| 3 | MSE Missile | | 147 | 702,437 | 122 | 603,188 | | | 46 | 176,585 | U |
| 4 | PRECISION STRIKE MISSILE (PRSM) | A | | | 30 | 49,941 | | | | | U |
| 5 | INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | A | | 9,337 | | 106,261 | | | | | U |
| Air-To-Surface Missile System | | | | | | | | | | | |
| 6 | Hellfire Sys Summary | A | 4902 | 425,549 | 428 | 91,225 | | | 3090 | 236,265 | U |
| 7 | Joint Air-to-Ground MSLS (JAGM) | | 494 | 199,295 | 657 | 213,397 | | | | | U |
| 8 | Long Range Precision Munition | A | | | | 45,307 | | | | | U |
| Anti-Tank/Assault Missile Sys | | | | | | | | | | | |
| 9 | Javelin (AAWS-M) System Summary | | 697 | 142,794 | 773 | 190,325 | | | | | U |
| 10 | TOW 2 System Summary | A | 1460 | (118,458) | 1405 | (121,074) | | | | | U |
| | Less: Advance Procurement (PY) | | | | | | | | | | U |
| | | | | 118,458 | | 121,074 | | | | | |
| 11 | Guided MLRS Rocket (GMLRS) | | 8211 | 1,176,406 | 5384 | 850,157 | | | 904 | 127,015 | U |
| 12 | MLRS Reduced Range Practice Rockets (RRPR) | | 2982 | 27,555 | 3270 | 30,836 | | | | | U |
| 13 | High Mobility Artillery Rocket System (HIMARS) | | | | 5 | 41,226 | | | | | U |
| 14 | ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM | B | 232 | 300,783 | | | | | | | U |

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

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Appropriation: 2032A Missile Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2021 Total OCO | | FY 2021 Total (Base + OCO) | | S e c |
|---|--|---------------|-------------------------|---------|----------------------------------|-----------|-------------|
| | | | Quantity | Cost | Quantity | Cost | |
| Budget Activity 02: Other Missiles | | | | | | | |
| Surface-to-Air Missile System | | | | | | | |
| 1 | System Integration and Test Procurement | A | | | | | U |
| 2 | M-SHORAD - Procurement | A | 22 | 158,300 | 72 | 536,954 | U |
| 3 | MSE Missile | | 46 | 176,585 | 168 | 779,773 | U |
| 4 | PRECISION STRIKE MISSILE (PRSM) | A | | | 30 | 49,941 | U |
| 5 | INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | A | | | | 106,261 | U |
| Air-To-Surface Missile System | | | | | | | |
| 6 | Hellfire Sys Summary | A | 3090 | 236,265 | 3518 | 327,490 | U |
| 7 | Joint Air-to-Ground MSLS (JAGM) | | | | 657 | 213,397 | U |
| 8 | Long Range Precision Munition | A | | | | 45,307 | U |
| Anti-Tank/Assault Missile Sys | | | | | | | |
| 9 | Javelin (AAWS-M) System Summary | | | | 773 | 190,325 | U |
| 10 | TOW 2 System Summary | A | | | 1405 | (121,074) | U |
| | Less: Advance Procurement (PY) | | | | | | U |
| | | | | | | 121,074 | |
| 11 | Guided MLRS Rocket (GMLRS) | | 904 | 127,015 | 6288 | 977,172 | U |
| 12 | MLRS Reduced Range Practice Rockets (RRPR) | | | | 3270 | 30,836 | U |
| 13 | High Mobility Artillery Rocket System (HIMARS) | | | | 5 | 41,226 | U |
| 14 | ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM | B | | | | | U |

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 Total Obligational Authority
 (Dollars in Thousands)

15 Jan 2020

Appropriation: 2032A Missile Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2019 (Base + OCO) | | FY 2020 Base Enacted | | FY 2020 OCO Enacted | | FY 2020 Emergency | | S e c |
|--|---|------------|-------------------------|-----------|-------------------------|-----------|------------------------|-----------|----------------------|------|-------|
| | | | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | |
| 15 | LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS | A | 1225 | 104,973 | | | 1130 | 83,300 | | | U |
| Total Other Missiles | | | | 3,521,758 | | 2,443,813 | | 1,082,558 | | | |
| Budget Activity 03: Modification of Missiles | | | | | | | | | | | |
| Modifications | | | | | | | | | | | |
| 16 | Patriot Mods | | | 323,228 | | 278,716 | | | | | U |
| 17 | ATACMS MODS | A | | 397,236 | | 80,320 | | | | | U |
| 18 | GMLRS MOD | A | | 266 | | 5,094 | | | | | U |
| 19 | Stinger Mods | | | 94,756 | | 81,615 | | 7,500 | | | U |
| 20 | AVENGER MODS | | | 31,093 | | 14,107 | | | | | U |
| 21 | ITAS/TOW Mods | | | 3,173 | | 3,469 | | | | | U |
| 22 | MLRS Mods | | | 478,998 | | 39,019 | | 333,531 | | | U |
| 23 | HIMARS Modifications | | | 10,196 | | 12,483 | | | | | U |
| Total Modification of Missiles | | | | 1,338,946 | | 514,823 | | 341,031 | | | |
| Budget Activity 04: Spares and Repair Parts | | | | | | | | | | | |
| Spares and Repair Parts | | | | | | | | | | | |
| 24 | Spares And Repair Parts | | | 27,737 | | 26,444 | | | | | U |
| Total Spares and Repair Parts | | | | 27,737 | | 26,444 | | | | | |

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Appropriation: 2032A Missile Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2020 Total Enacted | | FY 2021 Base | | FY 2021 OCO for Base Requirements | | FY 2021 OCO for Direct War and Enduring Costs | | S e c |
|--|---|---------------|--------------------------|-----------|-----------------|-----------|---|------|---|---------|-------------|
| | | | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | |
| 15 | LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS | A | 1130 | 83,300 | | | | | 1130 | 84,993 | U |
| Total Other Missiles | | | | 3,526,371 | | 2,721,591 | | | | 783,158 | |
| Budget Activity 03: Modification of Missiles | | | | | | | | | | | |
| Modifications | | | | | | | | | | | |
| 16 | Patriot Mods | | | 278,716 | | 278,050 | | | | | U |
| 17 | ATACMS MODS | A | | 80,320 | | 141,690 | | | | 78,434 | U |
| 18 | GMLRS MOD | A | | 5,094 | | | | | | | U |
| 19 | Stinger Mods | | | 89,115 | | | | | | | U |
| 20 | AVENGER MODS | | | 14,107 | | 13,942 | | | | | U |
| 21 | ITAS/TOW Mods | | | 3,469 | | 5,666 | | | | | U |
| 22 | MLRS Mods | | | 372,550 | | 310,419 | | | | 20,000 | U |
| 23 | HIMARS Modifications | | | 12,483 | | 6,081 | | | | | U |
| Total Modification of Missiles | | | | 855,854 | | 755,848 | | | | 98,434 | |
| Budget Activity 04: Spares and Repair Parts | | | | | | | | | | | |
| Spares and Repair Parts | | | | | | | | | | | |
| 24 | Spares And Repair Parts | | | 26,444 | | 5,090 | | | | | U |
| Total Spares and Repair Parts | | | | 26,444 | | 5,090 | | | | | |

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

15 Jan 2020

Appropriation: 2032A Missile Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2021 Total OCO Quantity | Cost | FY 2021 Total (Base + OCO) Quantity | Cost | S e c |
|--|--|---------------|-------------------------------------|---------|--|-----------|-------------|
| 15 | LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | A | 1130 | 84,993 | 1130 | 84,993 | U |
| Total Other Missiles | | | | 783,158 | | 3,504,749 | |
| Budget Activity 03: Modification of Missiles | | | | | | | |
| Modifications | | | | | | | |
| 16 | Patriot Mods | | | | | 278,050 | U |
| 17 | ATACMS MODS | A | | 78,434 | | 220,124 | U |
| 18 | GMLRS MOD | A | | | | | U |
| 19 | Stinger Mods | | | | | | U |
| 20 | AVENGER MODS | | | | | 13,942 | U |
| 21 | ITAS/TOW Mods | | | | | 5,666 | U |
| 22 | MLRS Mods | | | 20,000 | | 330,419 | U |
| 23 | HIMARS Modifications | | | | | 6,081 | U |
| Total Modification of Missiles | | | | 98,434 | | 854,282 | |
| Budget Activity 04: Spares and Repair Parts | | | | | | | |
| Spares and Repair Parts | | | | | | | |
| 24 | Spares And Repair Parts | | | | | 5,090 | U |
| Total Spares and Repair Parts | | | | | | 5,090 | |

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 (Dollars in Thousands)

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Appropriation: 2032A Missile Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2019 (Base + OCO) Quantity Cost | FY 2020 Base Enacted Quantity Cost | FY 2020 OCO Enacted Quantity Cost | FY 2020 Emergency Quantity Cost | S e c |
|---|-------------------------|---------------|--|--|---|---------------------------------------|-------------|
| <u>Budget Activity 05: Support Equipment and Facilities</u> | | | | | | | |
| Support Equipment & Facilities | | | | | | | |
| 25 | Air Defense Targets | | 6,417 | 10,593 | | | U |
| 26 | Production Base Support | | 1,202 | | | | U |
| Total Support Equipment and Facilities | | | 7,619 | 10,593 | | | |
| Total Missile Procurement, Army | | | 4,896,060 | 2,995,673 | 1,423,589 | | |

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15 Jan 2020

Appropriation: 2032A Missile Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2020 Total Enacted | | FY 2021 Base | | FY 2021 OCO for Base Requirements | | FY 2021 OCO for Direct War and Enduring Costs | | S e c |
|---|-------------------------|---------------|--------------------------|-----------|-----------------|-----------|---|------|---|---------|-------------|
| | | | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | |
| <u>Budget Activity 05: Support Equipment and Facilities</u> | | | | | | | | | | | |
| Support Equipment & Facilities | | | | | | | | | | | |
| 25 | Air Defense Targets | | | 10,593 | | 8,978 | | | | | U |
| 26 | Production Base Support | | | | | | | | | | U |
| Total Support Equipment and Facilities | | | | 10,593 | | 8,978 | | | | | |
| Total Missile Procurement, Army | | | | 4,419,262 | | 3,491,507 | | | | 881,592 | |

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Appropriation: 2032A Missile Procurement, Army

| Line | | Ident | FY 2021 | FY 2021 | |
|--|-------------------------|-------|-------------------------------|--|-------------|
| No | Item Nomenclature | Code | Total OCO Quantity Cost | Total (Base + OCO) Quantity Cost | S e c |
| ---- | ----- | ----- | ----- | ----- | ----- |
| Budget Activity 05: Support Equipment and Facilities | | | | | |
| ----- | | | | | |
| Support Equipment & Facilities | | | | | |
| 25 | Air Defense Targets | | | 8,978 | U |
| 26 | Production Base Support | | | | U |
| | | | ----- | ----- | |
| Total Support Equipment and Facilities | | | | 8,978 | |
| | | | ----- | ----- | |
| Total Missile Procurement, Army | | | 881,592 | 4,373,099 | |

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| 13 | 02 | 30 | 6005C64400 | Guided MLRS Rocket (GMLRS)..... | 91 |
| 14 | 02 | 30 | 6060C65405 | MLRS Reduced Range Practice Rockets (RRPR)..... | 103 |
| 15 | 02 | 30 | 6200C02901 | High Mobility Artillery Rocket System (HIMARS)..... | 113 |
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| AVENGER MODS | 2690CE8710 | 22 | 03 | 10..... | 173 |
| Air Defense Targets | 1242C93000 | 27 | 05 | 10..... | 209 |
| GMLRS MOD | 1824C57701 | 20 | 03 | 10..... | 169 |
| Guided MLRS Rocket (GMLRS) | 6005C64400 | 13 | 02 | 30..... | 91 |
| HIMARS Modifications | 6580C67501 | 25 | 03 | 10..... | 201 |
| Hellfire Sys Summary | 1338C70000 | 7 | 02 | 20..... | 41 |
| High Mobility Artillery Rocket System (HIMARS) | 6200C02901 | 15 | 02 | 30..... | 113 |
| INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | 8930C61001 | 5 | 02 | 10..... | 30 |
| INDIRECT FIRE PROTECTION CAPABILITY INC 2-I, Advance Procurement | 8930C61001 | 6 | 02 | 10..... | 37 |
| ITAS/TOW Mods | 3972C61700 | 23 | 03 | 10..... | 186 |
| Javelin (AAWS-M) System Summary | 0648CC0007 | 10 | 02 | 30..... | 65 |
| Joint Air-to-Ground MSLS (JAGM) | 2605C70302 | 8 | 02 | 20..... | 51 |
| LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | 6870C88001 | 17 | 02 | 30..... | 119 |
| Long Range Precision Munition | 2607C71300 | 9 | 02 | 20..... | 61 |
| M-SHORAD - Procurement | 8082C14300 | 2 | 02 | 10..... | 3 |

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| Line Item Title | Line Item Number | Line # | BA | BSA | Page |
|--|-------------------------|---------------|-----------|------------|-------------|
| MLRS Mods | 6552C67500 | 24 | 03 | 10..... | 191 |
| MLRS Reduced Range Practice Rockets (RRPR) | 6060C65405 | 14 | 02 | 30..... | 103 |
| MSE Missile | 8260C53101 | 3 | 02 | 10..... | 11 |
| PRECISION STRIKE MISSILE (PRSM) | 8540C29600 | 4 | 02 | 10..... | 23 |
| Patriot Mods | 0962C50700 | 18 | 03 | 10..... | 127 |
| Production Base Support | 4662CA0100 | 28 | 05 | 10..... | 215 |
| Spares And Repair Parts | 1242CA0250 | 26 | 04 | 10..... | 206 |
| Stinger Mods | 2684C20000 | 21 | 03 | 10..... | 171 |
| System Integration and Test Procurement | 7153C50016 | 1 | 02 | 10..... | 1 |
| TOW 2 System Summary | 2104C59300 | 11 | 02 | 30..... | 77 |
| TOW 2 System Summary, Advance Procurement | 2104C59300 | 12 | 02 | 30..... | 87 |

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Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Lookup Matrix by Model

| | | | |
|-------------------------------|--------------------|--|----------------------------|
| Model: | Various | | |
| P-3a Individual Modifications | | | |
| Modification Number | Modification Title | | Applies to Multiple Models |
| C50700 | Patriot Mods | | No |

| | | |
|-------------------------------|--------------------|----------------------------|
| Model: | ATACMS | |
| P-3a Individual Modifications | | |
| Modification Number | Modification Title | Applies to Multiple Models |
| CA6700 | ATACMS MODS | No |

| | | |
|-------------------------------|---------------------------------------|----------------------------|
| Model: | Avenger Basic and Slew-to-Cue Systems | |
| P-3a Individual Modifications | | |
| Modification Number | Modification Title | Applies to Multiple Models |
| CE8710 | AVENGER MODS | No |

| | | |
|-------------------------------|--------------------|----------------------------|
| Model: | NA | |
| P-3a Individual Modifications | | |
| Modification Number | Modification Title | Applies to Multiple Models |
| C61700 | ITAS/TOW Mods | No |

| | | | |
|-------------------------------|--------------------|--|----------------------------|
| Model: | M270A1 | | |
| P-3a Individual Modifications | | | |
| Modification Number | Modification Title | | Applies to Multiple Models |
| C67500 | MLRS Mods | | No |

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Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

| | | | |
|-------------------------------|--|--|----------------------------|
| Model: | M142 High Mobility Artillery Rocket System | | |
| P-3a Individual Modifications | | | |
| Modification Number | Modification Title | | Applies to Multiple Models |
| C67501 | HIMARS Modifications | | No |

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Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

Funding (\$ M)

| P-3a Modification Title | PYS | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|--|------------------|------------------|----------------|-----------------|----------------|------------------|----------------|----------------|----------------|----------------|
| Exhibit P-3a | | | | | | | | | | |
| Patriot Mods | 4,162.964 | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 |
| ATACMS MODS | 522.737 | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - |
| AVENGER MODS | 161.230 | 31.093 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - |
| ITAS/TOW Mods | 1,792.822 | 3.173 | 3.469 | 5.666 | - | 5.666 | - | - | - | - |
| MLRS Mods | 606.945 | 478.998 | 372.550 | 310.419 | 20.000 | 330.419 | 277.623 | 207.159 | 165.712 | 165.062 |
| HIMARS Modifications | 235.062 | 10.196 | 12.483 | 6.081 | - | 6.081 | 7.292 | 9.700 | 17.402 | 29.968 |
| Totals (Total Obligation Authority) | | | | | | | | | | |
| Total Obligation Authority | 7,481.760 | 1,243.924 | 761.645 | 755.848 | 98.434 | 854.282 | 519.470 | 449.418 | 351.506 | 373.569 |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | | | | | | | P-1 Line Item Number / Title: 7153C50016 / System Integration and Test Procurement | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: N/A | | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 503.504 | 105.395 | 107.157 | - | - | - | - | - | - | - | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 503.504 | 105.395 | 107.157 | - | - | - | - | - | - | - | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 503.504 | 105.395 | 107.157 | - | - | - | - | - | - | - | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Description: - System Integration and Test Procurement line (formerly Lower Tier Air and Missile Defense (LTAMD)) supports the Field Surveillance Program (FSP), PAC-3 Missile Support Center (P3MSC), International Engineering Services Program (IESP), Integrated Logistics Support (ILS), US Unique Engineering Services (ES), and System Engineering Program Management (SEPM) activities. The mission of the PATRIOT Advanced Capability-3 (PAC-3) Missile Field Surveillance Program (FSP) is required to ensure that the reliability, performance, and safety of fielded PAC-3 missiles remain within the classified system specification for the life of the system. Initial FSP tasks confirm the quality of design, materials, procedures, and processes used in the manufacture of the system. After missile deployment, results from surveillance firings, inspections, functional tests, Storage and Aging Programs, and depot level missile maintenance processing provide the data required for the assessment of reliability, performance, and safety of the missile stockpile. This includes PAC-3 missile tooling and test equipment. The PAC-3 missile is fielded under the Certified Round Concept. Under this approved concept, the PAC-3 missile is capable of being placed in extended storage as part of war reserve stocks or deployed in operational units for variable periods and then fired without intervening tests or checkouts. In accordance with the Certified Round Concept, the reliability/performance of the missile is certified by the Lower Tier Project Office (LTPO) to be at an acceptable level for a stated period of time or corrective action is taken. - The certification of reliability is made possible through the use of the PAC-3 Missile Support Center (P3MSC) contract to use technical support and knowledge of the testing of discrete lots of component parts, subassemblies and assemblies which the prime contractor Lockheed Martin Missiles and Fire Control (LMMFC) provides as the only source of technical knowledge, expertise, and facilities to perform FSP activities and process PAC-3 missiles. - The PATRIOT International Engineering Services Program provides continuing engineering support for system software and hardware for the life of the PATRIOT Air Defense System for US and international partners. The Engineering Services Program is designed to standardize and improve the PATRIOT system within the performance envelope described in the system specification. The support provided under this program includes PATRIOT software maintenance, Post Deployment Build 8/8.x(PDB-8/8.x), engineering support for PATRIOT peculiar hardware, government furnished equipment, logistics, technical data package, trainers, US Unique ES, and integrated diagnostics support system. This is accomplished through the investigation, analysis, and development of solutions to identified problems. Modifications to hardware are engineered for manufacturing implementation and retrofit of fielded hardware through the modification process. The Dismounted Patriot Information Coordination Central (D-PICC) effort is an example of rehosting tactical Patriot software maintained via engineering services to a smaller, more mobile hardware configuration that will allow flexible, tailorable deployment options by freeing up Battalion level ICC's. - Systems Engineering and Project Management support encompasses the overall planning, management, and control of the PATRIOT Weapon System. Includes all Engineering and Program Management disciplines and activities. Program office core employee labor costs moved from Procurement to OMA in FY19 as part of an OSD auditability directive. - Logistics Recurring includes all aspects of Integrated Logistics Support (ILS) management, e.g., maintenance support, facilities, personnel, training, testing, and fielding. - Supports procuring, fielding, and supporting materiel solutions to counter cybersecurity and electronic warfare shortcomings to all elements of the Lower Tier Battle Space. | | | | | | | | | | | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | | | | | P-1 Line Item Number / Title: 7153C50016 / System Integration and Test Procurement | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: N/A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 105.395 | 107.157 | - | - | - | - | - | - | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 105.395 | 107.157 | - | - | - | - | - | - | - |

Justification:
Beginning FY21, C50016 / System Integration and Test Procurement funding will be realigned to C50700 / Patriot Mods and C53101 / MSE Missile.

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|--|-----------------------------------|----------------|---|---------------------|--------------------|----------------------|---|----------------|----------------|----------------------------|--------------------|-------------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | | | | | | | P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): A | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0604117A | | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | 32 | 50 | 22 | 72 | 36 | - | 15 | 25 | Continuing | Continuing |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | - | - | 233.300 | 378.654 | 158.300 | 536.954 | 330.738 | 80.412 | 436.129 | 728.215 | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | - | - | 233.300 | 378.654 | 158.300 | 536.954 | 330.738 | 80.412 | 436.129 | 728.215 | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | - | - | 233.300 | 378.654 | 158.300 | 536.954 | 330.738 | 80.412 | 436.129 | 728.215 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | - | - | 7,290.625 | 7,573.080 | 7,195.455 | 7,457.694 | 9,187.167 | - | 29,075.267 | 29,128.600 | Continuing | Continuing |
| Description: FY 2021 funding totals include \$378.654M for Base and \$158.300M for Overseas Contingency Operations (OCO). M-SHORAD is an Air Defense weapon system consisting of multiple ground-to-air missile launchers, sensors and a gun on a Stryker A1 combat vehicle. M-SHORAD provides the Army improved capabilities for defense of maneuver formations and other tactical echelons from low altitude air attack and surveillance. Adaptive threats have developed a suite of airborne threat capabilities, supported by an integrated mix of surface-to-air and surface-to-surface shooters that threaten the ability of maneuver forces to conduct operations. Specifically, maneuver formations require the improved M-SHORAD air defense identification and defeat capabilities to counter Fixed Wing (FW), Rotary Wing (RW), Unmanned Aircraft Systems (UAS) and Rocket, Artillery and Mortar (RAM) threats. The M-SHORAD capability will be provided through a multi-phase approach with a rapidly fielded Initial M-SHORAD system (supported by an Army Approved Directed Requirement) and an enduring M-SHORAD (supported by a Joint Requirements Oversight Council approved Capability Development Document (CDD) that will field the full capability. First, the Army will field the Initial M-SHORAD solution based on a FY 2018 Directed Requirement, which was informed by the FY 2017 M-SHORAD Demonstration. This system will provide the capability to identify, track, and neutralize or destroy low-altitude air threats to include FW, RW, and Group 3 UAS while keeping pace and surviving with the maneuver Brigades. The Initial M-SHORAD will be fielded to four M-SHORAD battalions. In addition, the Rapid Capabilities and Critical Technologies Office (RCCTO) will transition the Directed Energy M-SHORAD (DE M-SHORAD) to the M-SHORAD Product Office in 1QFY23. DE M-SHORAD will provide the long term capability to counter a broader range of FW, RW, UAS and RAM threats. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | - | 32 | 50 | 22 | 72 | 36 | - | 15 | 25 | | |
| | Total Obligation Authority | - | 233.300 | 378.654 | 158.300 | 536.954 | 330.738 | 80.412 | 436.129 | 728.215 | | |
| Total: Secondary Distribution | Quantity | - | 32 | 50 | 22 | 72 | 36 | - | 15 | 25 | | |
| | Total Obligation Authority | - | 233.300 | 378.654 | 158.300 | 536.954 | 330.738 | 80.412 | 436.129 | 728.215 | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | | | | | | P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): A | | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0604117A | | | |
| 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 | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C14301 / Maneuver - Short Range Air Defense (M-SHORAD) | P-5a, P-21 | A | | - / - | - / - | 32 / 233.300 | 50 / 378.654 | 22 / 158.300 | 72 / 536.954 |
| P-40 | Total Gross/Weapon System Cost | | | | - / - | - / - | 32 / 233.300 | 50 / 378.654 | 22 / 158.300 | 72 / 536.954 |
| <p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p> | | | | | | | | | | |
| <p>Justification:</p> <p>FY 2021 Base procurement funding in the amount of \$378.654 million and OCO procurement funding of \$158.300M supports the production and delivery of 72 Initial M-SHORAD systems and Initial Spares</p> <p>The 72 total systems provide Initial M-SHORAD systems for the second and third M-SHORAD equipped Battalions. These quantities are required in order to meet the Full Operational Capability requirement specified in the Directed Requirement.</p> <p>This program is an Air Missile and Defense (AMD) Cross Functional Team (CFT) priority and is part of the Army Integrated Air and Missile Defense (IAMD) architecture, M-SHORAD C14301.</p> | | | | | | | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement | | | | | | Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD) | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : A | | | | | | | | | | 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) | | | | - | | - | | 32 | | 50 | | 22 | | 72 | | | | |
| Gross/Weapon System Cost (\$ in Millions) | | | | - | | - | | 233.300 | | 378.654 | | 158.300 | | 536.954 | | | | |
| Less PY Advance Procurement (\$ in Millions) | | | | - | | - | | - | | - | | - | | - | | | | |
| Net Procurement (P-1) (\$ in Millions) | | | | - | | - | | 233.300 | | 378.654 | | 158.300 | | 536.954 | | | | |
| Plus CY Advance Procurement (\$ in Millions) | | | | - | | - | | - | | - | | - | | - | | | | |
| Total Obligation Authority (\$ in Millions) | | | | - | | - | | 233.300 | | 378.654 | | 158.300 | | 536.954 | | | | |
| (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) | | | | - | | - | | 7,290.625 | | 7,573.080 | | 7,195.455 | | 7,457.694 | | | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Initial M-SHORAD ^(†) | - | - | - | - | - | - | 6,909.750 | 32 | 221.112 | 7,117.020 | 50 | 355.851 | 7,117.045 | 22 | 156.575 | 7,117.028 | 72 | 512.426 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | 221.112 | - | - | 355.851 | - | - | 156.575 | - | - | 512.426 |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Non-Recurring Production | - | - | - | - | - | - | - | - | 4.264 | - | - | 4.067 | - | - | - | - | - | 4.067 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | 4.264 | - | - | 4.067 | - | - | - | - | - | 4.067 |
| Subtotal: Flyaway Cost | - | - | - | - | - | - | - | - | 225.376 | - | - | 359.918 | - | - | 156.575 | - | - | 516.493 |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Training Devices | - | - | - | - | - | - | - | - | 1.162 | - | - | 2.400 | - | - | - | - | - | 2.400 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | 1.162 | - | - | 2.400 | - | - | - | - | - | 2.400 |
| Subtotal: Hardware Cost | - | - | - | - | - | - | - | - | 1.162 | - | - | 2.400 | - | - | - | - | - | 2.400 |
| Package Fielding Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | - | - | - | 1.024 | - | - | 3.064 | - | - | - | - | - | 3.064 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | 1.024 | - | - | 3.064 | - | - | - | - | - | 3.064 |
| Subtotal: Package Fielding Cost | - | - | - | - | - | - | - | - | 1.024 | - | - | 3.064 | - | - | - | - | - | 3.064 |
| Support - Acceptance Testing Cost | | | | | | | | | | | | | | | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement | | | | | Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD) | | | | | | | |

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

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

| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Acceptance Test | - | - | - | - | - | - | - | - | 1.375 | - | - | 2.750 | - | - | - | - | - | 2.750 |
| <i>Subtotal: Support - Acceptance Testing Cost</i> | - | - | - | - | - | - | - | - | 1.375 | - | - | 2.750 | - | - | - | - | - | 2.750 |
| Support - Initial Spares and Repair Parts Cost | | | | | | | | | | | | | | | | | | |
| Initial Spares and Repair Parts | - | - | - | - | - | - | - | - | 2.177 | - | - | 5.434 | - | - | 1.725 | - | - | 7.159 |
| <i>Subtotal: Support - Initial Spares and Repair Parts Cost</i> | - | - | - | - | - | - | - | - | 2.177 | - | - | 5.434 | - | - | 1.725 | - | - | 7.159 |
| Support - Logistics Cost | | | | | | | | | | | | | | | | | | |
| Integrated Logistics Support | - | - | - | - | - | - | - | - | - | - | - | 1.264 | - | - | - | - | - | 1.264 |
| <i>Subtotal: Support - Logistics Cost</i> | - | - | - | - | - | - | - | - | - | - | - | 1.264 | - | - | - | - | - | 1.264 |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | - | - | - | - | - | - | 2.186 | - | - | 3.824 | - | - | - | - | - | 3.824 |
| <i>Subtotal: Support - Program Management Cost</i> | - | - | - | - | - | - | - | - | 2.186 | - | - | 3.824 | - | - | - | - | - | 3.824 |
| Gross/Weapon System Cost | - | - | - | - | - | - | 7,290.625 | 32 | 233.300 | 7,573.080 | 50 | 378.654 | 7,195.455 | 22 | 158.300 | 7,457.694 | 72 | 536.954 |

Remarks:

FY 2021 Procurement funding procures 72 systems @ unit cost of \$ \$7,117,028

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|--------------------------------------|----------------------------|---------|---------|--------------|-------------|---------------|
| Army | Quantity | - | 32 | 50 | 22 | 72 |
| | Total Obligation Authority | - | 233.300 | 378.654 | 158.300 | 536.954 |
| Total: Secondary Distribution | Quantity | - | 32 | 50 | 22 | 72 |
| | Total Obligation Authority | - | 233.300 | 378.654 | 158.300 | 536.954 |

(†) 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: 2032A / 02 / 10 | | | P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement | | | | | Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD) | | | | |

| Cost Elements | O C O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty <i>(Each)</i> | Unit Cost <i>(\$ K)</i> | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---------------------------------|-------------|------|-------------------------|--------------------------------------|-----------------|---------------|------------------------------|----------------------|----------------------------|------------------------|-------------------------------|-------------------|
| Initial M-SHORAD ^(†) | | 2020 | Initial M-SHORAD / TBD | SS / FFP | TBD | Jul 2020 | Jul 2021 | 32 | 6,909.750 | N | | |
| Initial M-SHORAD ^(†) | ✓ | 2021 | Initial M-SHORAD / TBD | Option / FFP | HSV | Jan 2021 | Jan 2022 | 22 | 7,117.045 | N | | |
| Initial M-SHORAD ^(†) | | 2021 | Initial M-SHORAD / TBD | Option / FFP | HSV | Jan 2021 | May 2022 | 50 | 7,117.020 | N | | |

^(†) indicates the presence of a P-21

Remarks:
FY2021 Procurement funding procures 72 Systems @ unit cost of \$7,117,028

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | | | |
|---|-------|------|---------|----------|----------------------------|---------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---------|---|---|---|---|---|----|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | | P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement | | | | | | | | | | | | | Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD) | | | | | | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | | BALANCE | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | Calendar Year 2020 | | | | | | | | | | | | | Calendar Year 2021 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | | | |
| Initial M-SHORAD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2020 | ARMY | 32 | 0 | 32 | | | | | | | | | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | 4 | 20 |
| | 1 | 2021 | ARMY | 50 | 0 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| ✓ | 1 | 2021 | ARMY | 22 | 0 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 22 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | |
|---|------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|---------|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | | | | | P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement | | | | | | | | | | Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD) | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | | BALANCE | |
| OCO | MFR# | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2021 | BAL DUE AS OF 1 OCT | Calendar Year 2022 | | | | | | | | | | | | | Calendar Year 2023 | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | |
| Initial M-SHORAD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2020 | ARMY | 32 | 12 | 20 | 6 | 6 | 6 | 2 | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2021 | ARMY | 50 | 0 | 50 | - | - | - | - | - | - | - | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 2 | 0 | | | | |
| ✓ | 1 | 2021 | ARMY | 22 | 0 | 22 | - | - | - | 4 | 6 | 6 | 6 | | | | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | |

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|--|--|--|--|---|--|--|--|---|--|--|--|
| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | P-1 Line Item Number / Title: 8082C14300 / M-SHORAD - Procurement | | | | Item Number / Title [DODIC]: C14301 / Maneuver - Short Range Air Defense (M-SHORAD) | | | |

| 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 | | | |
| | | | | | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Initial M-SHORAD - TBD | 2 | 6 | 9 | 0 | 3 | 6 | 9 | 0 | 3 | 6 | 9 |

Remarks:

FY2021 Procurement funding procures 72 Systems @ unit cost of \$ \$7,117,028

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

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

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
|---|------------------|------------------|----------------|---|----------------|----------------|--|---|----------------|----------------------------|-------------------|-------------------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | | | | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0604865A, 0603869A, 0604869A, 0605456A | | | | |
| Line Item MDAP/MAIS Code: 492 | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 4,092.880 | 1,131.276 | 702.437 | 603.188 | 176.585 | 779.773 | 765.887 | 1,008.835 | 908.799 | 804.295 | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 4,092.880 | 1,131.276 | 702.437 | 603.188 | 176.585 | 779.773 | 765.887 | 1,008.835 | 908.799 | 804.295 | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 4,092.880 | 1,131.276 | 702.437 | 603.188 | 176.585 | 779.773 | 765.887 | 1,008.835 | 908.799 | 804.295 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 4,443.952 | 4,713.650 | 4,778.483 | 4,944.164 | 3,838.804 | 4,641.506 | 6,329.645 | 7,154.858 | 7,971.921 | 9,244.770 | Continuing | Continuing |
| <p>Description:</p> <p>Note: Beginning FY21, funds from System Integration and Test Procurement / C50016 will be realigned into MSE Missile / C53101.</p> <p>The MSE Missile line supports the procurement of missiles, Field Surveillance Program (FSP), PAC-3 Missile Support Center (P3MSC), Integrated Logistics Support (ILS), US Unique Engineering Services (ES), and System Engineering Program Management (SEPM) activities.</p> <p>The PATRIOT Advanced Capability 3 (PAC-3) Missile Segment Enhancement (MSE) is a high velocity hit-to-kill, surface-to-air missile capable of intercepting tactical ballistic missiles, air breathing threats, cruise missiles, and unmanned aerial systems. The PAC-3 MSE represents the next generation PAC-3 missile which provides expanded battlespace performance against evolving threats and has been fully integrated into the PATRIOT system for US and international partners. The PAC-3 MSE is an agile, lethal interceptor providing substantial missile capabilities when combined with critical ground system improvements. Additionally, the PAC-3 MSE enhances Insensitive Munitions (IM) through a less sensitive, increased performance lethality enhancer, the addition of armor and a thermally initiated venting system. A single canister design provides enhanced warfighter and logistics flexibility, and facilitates improved IM performance for greater warfighter safety.</p> <p>The PATRIOT Advanced Capability-3 (PAC-3) Missile Field Surveillance Program (FSP) is required to ensure that the reliability, performance, and safety of fielded missiles in the PATRIOT family remain within the classified system specification for the life of the system. Initial FSP tasks confirm the quality of design, materials, tooling and test equipment procedures, and processes used in the manufacture of the PATRIOT Family of Missiles (PFoM). After missile deployment, results from surveillance firings, inspections, functional tests, Storage and Aging Programs, and depot level missile maintenance processing provide the data required for the assessment of reliability, performance, and safety of the missile stockpile. The PFoM are fielded under the Certified Round Concept. Under this approved concept, the missiles are capable of being placed in extended storage as part of war reserve stocks or deployed in operational units for variable periods and then fired without intervening tests or checkouts. In accordance with the Certified Round Concept, the reliability/performance of the missile is certified by the Lower Tier Project Office (LTPO) to be at an acceptable level for a stated period of time or corrective action is taken.</p> <p>The certification of reliability is made possible through the use of the PAC-3 Missile Support Center (P3MSC) contract to use technical support and knowledge of the testing of discrete lots of component parts, subassemblies and assemblies which the prime contractor Lockheed Martin Missiles and Fire Control (LMMFC) provides as the only source of technical knowledge, expertise, and facilities to perform FSP activities and process PFoM.</p> | | | | | | | | | | | | |

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|--|----------------------------|-----------|--|--------------|---|--|---------------------|-----------|---------|---------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0604865A, 0603869A, 0604869A, 0605456A | | | | |
| Line Item MDAP/MAIS Code: 492 | | | | | | | | | | |
| Systems Engineering and Project Management support encompasses the overall planning, management, and control of the PATRIOT Weapon System. Includes all Engineering and Program Management disciplines and activities. | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 1,131.276 | 702.437 | 603.188 | 176.585 | 779.773 | 765.887 | 1,008.835 | 908.799 | 804.295 |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 1,131.276 | 702.437 | 603.188 | 176.585 | 779.773 | 765.887 | 1,008.835 | 908.799 | 804.295 |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | Date: February 2020 | | | |
|---|---------------------------------------|-------------|---|----------------|--|---|--|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | | | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0604865A, 0603869A, 0604869A, 0605456A | | | | |
| Line Item MDAP/MAIS Code: 492 | | | | | | | | | | |
| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C53101 / MSE Missile | P-5a, P-21 | | | - / 4,092.880 | - / 1,131.276 | - / 702.437 | - / 603.188 | - / 176.585 | - / 779.773 |
| P-40 | Total Gross/Weapon System Cost | | | | - / 4,092.880 | - / 1,131.276 | - / 702.437 | - / 603.188 | - / 176.585 | - / 779.773 |
| *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. | | | | | | | | | | |
| <p>Justification: FY 2021 procurement dollars in the amount of \$779.773 million support the production of 168 Missile Segment Enhancement (MSE) missiles, 32 Launcher Mod Kits (LMK), Missile Round Trainers (MRT), Empty Round Trainers (ERT), Field Surveillance Program (FSP), supporting equipment, ancillary missile items, PAC-3 Missile Support Center (P3MSC), Obsolescence, Organic NRC, System Engineering/Program Management (SE/PM), and Government/Software Engineering.</p> <p>In FY 2021, \$0.978 million in Reimbursable Manpower for this line has been realigned from Reimbursable Civilian Funding to Direct Operations and Maintenance. Program support costs have been accurately updated to reflect the realignments</p> <p>Army Acquisition Objective (AAO) is 3376.</p> <p>Program Office core employee labor costs moved from Procurement to Operations and Maintenance, Army (OMA) as part of an OSD auditability directive starting in FY19. Government/Software Engineering (USG support) includes government administration costs.</p> <p>*Unit prices reflect an assessed yearly Foreign Military Sales (FMS) procurement of PAC-3 missile variants. In the event FMS procurements do not occur at this level, the budgeted missile unit price may not be achievable.</p> <p>**Quantities will be procured at an optimized rate utilizing price advantage created through contract negotiation, Firm Fixed Price Incentive Fee (FPIF) contract ceiling liability reduction through price determination, other service procurement, and/or foreign military sales (FMS) to increase the Army procurement of MSE Missiles.</p> <p>***Anticipate transitioning from Fixed Price Incentive Fee (FPIF) to Firm Fixed Price (FFP) in FY21, assuming analysis of FY13-19 cost data demonstrates stable program costs.</p> | | | | | | | | | | |

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|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---|---------------|----------------------|---------------------|---------------|----------------------|--|---------------|----------------------|---------------------|---------------|----------------------|---------------|--|--|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | | Date: February 2020 | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | | | Item Number / Title [DODIC]: C53101 / MSE Missile | | | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | | | | |
| Resource Summary | | | | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
| Procurement Quantity <i>(Units in Each)</i> | | | | - | | | - | | | - | | | - | | | - | | | - | | |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | | | | 4,092.880 | | | 1,131.276 | | | 702.437 | | | 603.188 | | | 176.585 | | | 779.773 | | |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | | - | | | - | | | - | | | - | | | - | | |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | | | | 4,092.880 | | | 1,131.276 | | | 702.437 | | | 603.188 | | | 176.585 | | | 779.773 | | |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | | - | | | - | | | - | | | - | | | - | | |
| Total Obligation Authority <i>(\$ in Millions)</i> | | | | 4,092.880 | | | 1,131.276 | | | 702.437 | | | 603.188 | | | 176.585 | | | 779.773 | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | | | | - | | | - | | | - | | | - | | | - | | | - | | |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | | | | 4,443.952 | | | 4,713.650 | | | 4,778.483 | | | 4,944.164 | | | 3,838.804 | | | 4,641.506 | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | | | |
| Flyaway Cost | | | | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | | | | |
| Missile Hardware ^(†) | 3,991.114 | 869 | 3,468.278 | 3,733.398 | 274 | 1,022.951 | 4,117.265 | 147 | 605.238 | 3,852.656 | 122 | 470.024 | 3,838.804 | 46 | 176.585 | 3,848.863 | 168 | 646.609 | | | |
| Field Surveillance | - | - | 41.863 | - | - | 6.096 | - | - | 5.949 | - | - | 18.732 | - | - | - | - | - | 18.732 | | | |
| PAC-3 Missile Support Center (P3MSC) | - | - | 22.364 | - | - | 3.900 | - | - | 3.899 | - | - | 10.501 | - | - | - | - | - | 10.501 | | | |
| Obsolescence | - | - | 84.725 | - | - | 22.049 | - | - | 8.597 | - | - | 22.032 | - | - | - | - | - | 22.032 | | | |
| Launcher Mod Kit (LMK) | - | - | 63.088 | 247.500 | 40 | 9.900 | 247.585 | 41 | 10.151 | 253.094 | 32 | 8.099 | - | - | - | 253.094 | 32 | 8.099 | | | |
| Heater Kits | - | - | 2.500 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Msl Round Trainer / Empty Round Trainer | - | - | 122.438 | - | - | 43.700 | - | - | 45.695 | - | - | 49.701 | - | - | - | - | - | 49.701 | | | |
| Initial Production Facilitization | - | - | 88.313 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Government/Software Engineering | - | - | 31.540 | - | - | 9.600 | - | - | 9.701 | - | - | 9.699 | - | - | - | - | - | 9.699 | | | |
| Sys Engrg/Proj Mgmt (SE/PM) Contractor | - | - | 167.771 | - | - | 13.080 | - | - | 13.207 | - | - | 13.401 | - | - | - | - | - | 13.401 | | | |
| Subtotal: Recurring Cost | - | - | 4,092.880 | - | - | 1,131.276 | - | - | 702.437 | - | - | 602.189 | - | - | 176.585 | - | - | 778.774 | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | | | | |
| Organic | - | - | - | - | - | - | - | - | - | - | - | 0.999 | - | - | - | - | - | 0.999 | | | |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 0.999 | - | - | - | - | - | 0.999 | | | |
| Subtotal: Flyaway Cost | - | - | 4,092.880 | - | - | 1,131.276 | - | - | 702.437 | - | - | 603.188 | - | - | 176.585 | - | - | 779.773 | | | |

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|--|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | | Item Number / Title [DODIC]: C53101 / MSE Missile | | | |

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

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

| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
|--------------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Gross/Weapon System Cost | 4,443.952 | - | 4,092.880 | 4,713.650 | - | 1,131.276 | 4,778.483 | - | 702.437 | 4,944.164 | - | 603.188 | 3,838.804 | - | 176.585 | 4,641.506 | - | 779.773 |

Remarks:
Beginning FY21, funds from System Integration and Test Procurement / C50016 will be realigned into MSE Missile / C53101.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|---|----------------------------|-----------|---------|--------------|-------------|---------------|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 1,131.276 | 702.437 | 603.188 | 176.585 | 779.773 |
| Total: Secondary Distribution | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 1,131.276 | 702.437 | 603.188 | 176.585 | 779.773 |

(t) 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: 2032A / 02 / 10 | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | Item Number / Title [DODIC]: C53101 / MSE Missile | | | | |

| Cost Elements | O C 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 |
|---------------------------------|-------------|------|-------------------------|--------------------------------------|-----------------|---------------|------------------------------|---------------|---------------------|------------------------|-------------------------------|-------------------|
| Missile Hardware ^(†) | | 2015 | LMMFC / Dallas, TX | SS / FPIF | AMCOM, RSA, AL | Jul 2015 | Jan 2017 | 108 | 4,425.000 | Y | | May 2014 |
| Missile Hardware ^(†) | | 2016 | LMMFC / Dallas, TX | SS / FPIF | AMCOM, RSA, AL | Dec 2015 | Aug 2018 | 112 | 3,940.180 | Y | | May 2014 |
| Missile Hardware ^(†) | | 2017 | LMMFC / Dallas, TX | SS / FPIF | AMCOM, RSA, AL | Dec 2016 | Oct 2019 | 170 | 4,266.530 | Y | | Dec 2015 |
| Missile Hardware ^(†) | | 2018 | LMMFC / Dallas, TX | SS / FPIF | AMCOM, RSA, AL | Dec 2017 | Jul 2020 | 387 | 3,793.380 | Y | | Dec 2015 |
| Missile Hardware ^(†) | | 2019 | LMMFC / Dallas, TX | SS / FPIF | AMCOM, RSA, AL | Dec 2018 | Jun 2021 | 274 | 3,733.398 | Y | | Dec 2015 |
| Missile Hardware ^(†) | | 2020 | LMMFC / Dallas, TX | SS / FPIF | AMCOM, RSA, AL | Dec 2019 | Jun 2022 | 147 | 4,117.265 | Y | | Jun 2017 |
| Missile Hardware ^(†) | | 2021 | LMMFC / Dallas, TX | SS / FFP | AMCOM, RSA, AL | Dec 2020 | Jun 2023 | 168 | 3,848.863 | Y | | Jun 2017 |

^(†) indicates the presence of a P-21

Remarks:

Anticipate transitioning from FPIF to FFP in FY21, assuming analysis of FY13-19 cost data demonstrates stable program costs.
Exhibit P-21, Production Schedule is subject to change.

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|------|---------|-------------|---|------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|--|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|---|---|---|---|---|-----|---|---|---|---|---|-----|---|---|---|-----|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | | | | | | | | | | | | Item Number / Title [DODIC]: C53101 / MSE Missile | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2015 | | | | | | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | B A L A N C E | | | | | | | | | | | | | | | | |
| O C C O | M F R # | FY | SERVICE | PROC QTY | ACCEP T P R I O R T O 1 O C T 2014 | BAL DUE AS OF 1 OCT | Calendar Year 2015 | | | | | | | | | | | | Calendar Year 2016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | | | | | | | | | | |
| Missile Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 108 | 0 | 108 | | | | | | | | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 108 | | | | | | | | | | |
| | 1 | 2016 | ARMY | 112 | 0 | 112 | | | | | | | | | | | | | | | | | | | | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 112 |
| | 1 | 2017 | ARMY | 170 | 0 | 170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 170 | | | | |
| | 1 | 2018 | ARMY | 387 | 0 | 387 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 387 | | | | |
| | 1 | 2019 | ARMY | 274 | 0 | 274 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 274 | | | | |
| | 1 | 2020 | ARMY | 147 | 0 | 147 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 147 | | | | |
| | 1 | 2021 | ARMY | 168 | 0 | 168 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 168 | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | | | | | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | |
|---|------------------|------|---------|-------------|---|------------------------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|---------------------------------|---|---|-----|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | | | | | | | | Item Number / Title [DODIC]: C53101 / MSE Missile | | | | | | | | | | | | | | |
| Cost Elements <i>(Units in Each)</i> | | | | | | | Fiscal Year 2017 | | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | | | B A L A N C E | | | |
| O C C O | M F R # | FY | SERVICE | PROC QTY | ACCEP T P R I O R T O 1 O C T 2016 | BAL DUE AS OF 1 OCT | Calendar Year 2017 | | | | | | | | | | | Calendar Year 2018 | | | | | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | |
| Missile Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 108 | 0 | 108 | - | - | - | 10 | 2 | 3 | 3 | 17 | 12 | 12 | 14 | 12 | 12 | 11 | | | | | | | | | | | 0 | | | | |
| | 1 | 2016 | ARMY | 112 | 0 | 112 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | 10 | 94 | | | | | |
| | 1 | 2017 | ARMY | 170 | 0 | 170 | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 170 | | | | | |
| | 1 | 2018 | ARMY | 387 | 0 | 387 | | | | | | | | | | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | 387 |
| | 1 | 2019 | ARMY | 274 | 0 | 274 | | | | | | | | | | | | | | | | | | | | | | 274 | | | | | | | |
| | 1 | 2020 | ARMY | 147 | 0 | 147 | | | | | | | | | | | | | | | | | | | | | | 147 | | | | | | | |
| | 1 | 2021 | ARMY | 168 | 0 | 168 | | | | | | | | | | | | | | | | | | | | | | 168 | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | |
|---|------------------|------|---------|-------------|---|------------------------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|-----|---|---|---|-----|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | | | | | | | Item Number / Title [DODIC]: C53101 / MSE Missile | | | | | | | | | | | | | | | | |
| Cost Elements <i>(Units in Each)</i> | | | | | | | Fiscal Year 2019 | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | | B A L A N C E | | | | | | |
| O C C O | M F R # | FY | SERVICE | PROC QTY | ACCEP T P R I O R T O 1 O C T 2018 | BAL DUE AS OF 1 OCT | Calendar Year 2019 | | | | | | | | | | Calendar Year 2020 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | | S E P | | | | | |
| Missile Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 108 | 108 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | |
| | 1 | 2016 | ARMY | 112 | 18 | 94 | 10 | 10 | 10 | 10 | 10 | 12 | 8 | 10 | 14 | | | | | | | | | | | | | | | | | | 0 | | | |
| | 1 | 2017 | ARMY | 170 | 0 | 170 | - | - | - | - | - | - | - | - | - | - | - | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 21 | | | | | | | | 0 | | | |
| | 1 | 2018 | ARMY | 387 | 0 | 387 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 34 | 34 | 34 | 285 | | | | |
| | 1 | 2019 | ARMY | 274 | 0 | 274 | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 274 | | | | |
| | 1 | 2020 | ARMY | 147 | 0 | 147 | | | | | | | | | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 147 |
| | 1 | 2021 | ARMY | 168 | 0 | 168 | | | | | | | | | | | | | | | | | | | | | | | | | | 168 | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|---|-----|-----|-----|--------------------|-----|-----|------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | | | | | | | Item Number / Title [DODIC]: C53101 / MSE Missile | | | | | | | | | | | |
| Cost Elements <i>(Units in Each)</i> | | | | | | | Fiscal Year 2021 | | | | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | | | BALANCE |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | Calendar Year 2021 | | | | | | | Calendar Year 2022 | | | | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Missile Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 108 | 108 | 0 | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2016 | ARMY | 112 | 112 | 0 | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2017 | ARMY | 170 | 170 | 0 | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2018 | ARMY | 387 | 102 | 285 | 36 | 36 | 36 | 36 | 36 | 35 | 35 | 35 | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2019 | ARMY | 274 | 0 | 274 | - | - | - | - | - | - | - | - | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 24 | | | 0 | | | | |
| | 1 | 2020 | ARMY | 147 | 0 | 147 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | 12 | 15 | 12 | 93 | |
| | 1 | 2021 | ARMY | 168 | 0 | 168 | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 168 | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|--|--|---------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | | | | | | | | | | Item Number / Title [DODIC]: C53101 / MSE Missile | | | | | | | | | | |
| Cost Elements <i>(Units in Each)</i> | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | | BALANCE |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | Calendar Year 2023 | | | | | | | | | | | | | Calendar Year 2024 | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |
| Missile Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 108 | 108 | 0 | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2016 | ARMY | 112 | 112 | 0 | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2017 | ARMY | 170 | 170 | 0 | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2018 | ARMY | 387 | 387 | 0 | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2019 | ARMY | 274 | 274 | 0 | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2020 | ARMY | 147 | 54 | 93 | 15 | 12 | 15 | 12 | 15 | 12 | 12 | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2021 | ARMY | 168 | 0 | 168 | - | - | - | - | - | - | - | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 0 | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |

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|---|---------------------------------|--------------------------------|----------------|--------------|---|--------------------|----------------------|----------------------|--|--------------------|----------------------|----------------------|
| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | P-1 Line Item Number / Title: 8260C53101 / MSE Missile | | | | Item Number / Title [DODIC]: C53101 / MSE Missile | | | |
| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | Initial | | | | Reorder | | | |
| | | | | | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| | | | | | | | | | | | | |
| 1 | LMMFC - Dallas, TX | 72 | 300 | 350 | 0 | 6 | 18 | 24 | 0 | 6 | 18 | 24 |

Remarks:
The PAC-3 MSE production line includes deliveries for both US and Foreign Military Sales (FMS). Gaps between scheduled US missile deliveries are attributed to FMS. FMS and US combine to provide significant production line continuity and buying power efficiencies. Production Rates reflect annual production capacity.

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

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

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | Date: February 2020 |
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| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM) |
|---|--|

| | | |
|--|---|---|
| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0607134A |
|--|---|---|

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
|--|-------------|---------|---------|--------------|-------------|---------------|-----------|-----------|---------|---------|-------------|-----------|
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | 30 | - | 30 | 110 | 178 | 350 | 350 | - | 1,018 |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | - | - | - | 49.941 | - | 49.941 | 168.416 | 210.058 | 335.088 | 309.906 | - | 1,073.409 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | - | - | - | 49.941 | - | 49.941 | 168.416 | 210.058 | 335.088 | 309.906 | - | 1,073.409 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | - | - | - | 49.941 | - | 49.941 | 168.416 | 210.058 | 335.088 | 309.906 | - | 1,073.409 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | - | - | - | 1,664.700 | - | 1,664.700 | 1,531.055 | 1,180.101 | 957.394 | 885.446 | - | 1,054.429 |

Description:

Precision Strike Missile (PrSM), formerly known as Long Range Precision Fires (LRPF), is the Army's next generation surface-to-surface missile that replaces and improves upon Army Tactical Missile System (ATACMS) capabilities. PrSM requirements include: max range of greater than 400km, specified lethality against the designated target set, a Launch Pod Missile Container (LPMC) that holds two missiles, survivability in a threat environment, and compatibility with the existing launcher platforms (M270A2 Multiple Launch Rocket System (MLRS) and M142 High Mobility Artillery Rocket System (HIMARS)). PrSM will meet cluster and insensitive munition requirements and is being designed with an open system architecture that provides the capability for future growth to counter new and emerging threats. The mission of the PrSM System is to attack/neutralize/suppress/destroy targets using missile delivered indirect precision fires. PrSM will provide Joint Force Commanders with a 24/7, all- weather capability to attack critical and time sensitive area and point targets including threat air defense, missile launchers, command and control centers, assembly/ staging areas and high payoff targets at all depths of the multi-domain battlefield. PrSM will counter the enemy's ability to conduct combat maneuver and air defense operations.

The current Army Acquisition Objective is 2,422 PrSM missiles.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|--------------------------------------|-----------------------------------|---------|---------|---------------|-------------|---------------|----------------|----------------|----------------|----------------|
| Army | Quantity | - | - | 30 | - | 30 | 110 | 178 | 350 | 350 |
| | Total Obligation Authority | - | - | 49.941 | - | 49.941 | 168.416 | 210.058 | 335.088 | 309.906 |
| Total: Secondary Distribution | Quantity | - | - | 30 | - | 30 | 110 | 178 | 350 | 350 |
| | Total Obligation Authority | - | - | 49.941 | - | 49.941 | 168.416 | 210.058 | 335.088 | 309.906 |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
|---|---------------------------------------|-------------|---|----------------|--|--|--|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | | | | | | P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM) | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0607134A | | | | |
| 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 | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C29850 / PrSM Baseline | P-5a, P-21 | | | - / - | - / - | - / - | 30 / 49.941 | - / - | 30 / 49.941 |
| P-40 | Total Gross/Weapon System Cost | | | | - / - | - / - | - / - | 30 / 49.941 | - / - | 30 / 49.941 |
| <p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p> | | | | | | | | | | |
| <p>Justification:</p> <p>FY 2021 Base procurement dollars in the amount of \$49.941M supports the production of 30 Urgent Material Release (UMR) PrSM missiles with Launch Pod Missile Containers (LPMC).</p> <p>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.</p> <p>This program supports the Long Range Precision Fires Cross Functional Team (CFT).</p> <p>PRECISION STRIKE MISSILE (PRSM) is a new start in FY2021.</p> | | | | | | | | | | |

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|--|--|----------------------------|---------------|----------------------|---------------------|---|----------------------|---------------------|-----------------|----------------------|---------------------|--|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM) | | | | | | Item Number / Title [DODIC]: C29850 / PrSM Baseline | | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | 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) | | | | - | | - | | - | | 30 | | - | | 30 | | | | | |
| Gross/Weapon System Cost (\$ in Millions) | | | | - | | - | | - | | 49.941 | | - | | 49.941 | | | | | |
| Less PY Advance Procurement (\$ in Millions) | | | | - | | - | | - | | - | | - | | - | | | | | |
| Net Procurement (P-1) (\$ in Millions) | | | | - | | - | | - | | 49.941 | | - | | 49.941 | | | | | |
| Plus CY Advance Procurement (\$ in Millions) | | | | - | | - | | - | | - | | - | | - | | | | | |
| Total Obligation Authority (\$ in Millions) | | | | - | | - | | - | | 49.941 | | - | | 49.941 | | | | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | | |
| Initial Spares (\$ in Millions) | | | | - | | - | | - | | - | | - | | - | | | | | |
| Gross/Weapon System Unit Cost (\$ in Thousands) | | | | - | | - | | - | | 1,664.700 | | - | | 1,664.700 | | | | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | | |
| Recurring Production ^(†) | | - | - | - | - | - | - | - | - | - | 1,664.700 | 30 | 49.941 | - | - | - | 1,664.700 | 30 | 49.941 |
| Subtotal: Recurring Cost | | - | - | - | - | - | - | - | - | - | - | - | 49.941 | - | - | - | - | - | 49.941 |
| Subtotal: Flyaway Cost | | - | - | - | - | - | - | - | - | - | - | - | 49.941 | - | - | - | - | - | 49.941 |
| Gross/Weapon System Cost | | - | - | - | - | - | - | - | - | - | 1,664.700 | 30 | 49.941 | - | - | - | 1,664.700 | 30 | 49.941 |
| Secondary Distribution | | | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
| Army | | Quantity | | | - | | | - | | | 30 | | | - | | | 30 | | |
| | | Total Obligation Authority | | | - | | | - | | | 49.941 | | | - | | | 49.941 | | |
| | | Total Obligation Authority | | | - | | | - | | | 49.941 | | | - | | | 49.941 | | |
| Total: Secondary Distribution | | Quantity | | | - | | | - | | | 30 | | | - | | | 30 | | |
| | | Total Obligation Authority | | | - | | | - | | | 49.941 | | | - | | | 49.941 | | |

^(†) 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: 2032A / 02 / 10 | | | P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM) | | | | | Item Number / Title [DODIC]: C29850 / PrSM Baseline | | | | |
| Cost Elements | O C 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 |
| Recurring Production ^(†) | | 2021 | TBD / TBD | C / FFP | Aviation and Missile Command | Jul 2021 | Oct 2022 | 30 | 1,664.700 | N | | Jul 2020 |

(†) 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: 2032A / 02 / 10 | | | | | | | | | | P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM) | | | | | | | | | | Item Number / Title [DODIC]: C29850 / PrSM Baseline | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2021 | | | | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | | BALANCE | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | Calendar Year 2021 | | | | | | | | | | Calendar Year 2022 | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | | SEP |
| Recurring Production | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2021 | ARMY | 30 | 0 | 30 | | | | | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | 30 | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

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|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|------|------|---|-------|-------|-------|-------|-------|-------|--------------------|-------|---------------------|--|------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|---|---|
| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | | | | | P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM) | | | | | | | | | | Item Number / Title [DODIC]: C29850 / PrSM Baseline | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2023 | | | | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | | BALANCE | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | Calendar Year 2023 | | | | | | | | | | Calendar Year 2024 | | | | | | | | | | | | | | | | |
| | | | | | | | OC T | NO V | DE C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | NO V | DE C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | | S E P | | |
| Recurring Production | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2021 | ARMY | 30 | 0 | 30 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | | | | | | | | | | | | | | 0 | |
| | | | | | | | OC T | NO V | DE C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | NO V | DE C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | |

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|---|---------------------------------|---------------------------------|----------------|--------------|---|--------------------|----------------------|----------------------|--|--------------------|----------------------|----------------------|
| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | P-1 Line Item Number / Title: 8540C29600 / PRECISION STRIKE MISSILE (PRSM) | | | | Item Number / Title [DODIC]: C29850 / PrSM Baseline | | | |
| 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 | | | |
| | | | | | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | TBD - TBD | 2 | 3 | 5 | 0 | 10 | 15 | 25 | 0 | 10 | 15 | 25 |

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

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

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|--|-----------------------------------|----------------|----------------|---|--------------------|----------------------|--|--|----------------|----------------------------|--------------------|-------------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | | | | | | | P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: N/A | | | | |
| Line Item MDAP/MAIS Code: 473 | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | 12 | - | - | - | - | 12 | - | 36 | 36 | Continuing | Continuing |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 41.003 | 166.536 | 40.623 | 106.261 | - | 106.261 | 237.803 | 392.134 | 368.447 | 274.566 | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | 31.286 | - | - | - | - | - | - | - | Continuing | Continuing |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 41.003 | 166.536 | 9.337 | 106.261 | - | 106.261 | 237.803 | 392.134 | 368.447 | 274.566 | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | 31.286 | - | - | - | - | - | - | - | - | Continuing | Continuing |
| Total Obligation Authority (<i>\$ in Millions</i>) | 41.003 | 197.822 | 9.337 | 106.261 | - | 106.261 | 237.803 | 392.134 | 368.447 | 274.566 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | - | 13,878.000 | - | - | - | - | 19,816.917 | - | 10,234.639 | 7,626.833 | Continuing | Continuing |
| <p>Description:</p> <p>The Indirect Fire Protection Capability Increment 2 (IFPC Inc 2) will provide a ground-based weapon system designed to acquire, track, engage, and defeat Cruise Missiles (CM), Unmanned Aircraft Systems (UAS), and Rocket, Artillery, and Mortar (RAM) threats. The IFPC Inc 2 system consists of a launcher and interceptor integrated with the Army Integrated Air and Missile Defense (AIAMD) open systems architecture, IAMD Battle Command System (IBCS), and the Sentinel sensor to support the Threshold CM and UAS defeat mission. The Objective counter-RAM mission employs both alternative kinetic and non-kinetic defeat solutions.</p> <p>In Fiscal Year (FY) 2018, the Army evaluated alternative strategies to address an Army interim CM defense (CMD) capability at critical strategic fixed site locations while continuing the development of an IFPC capability. On 5 December 2019, the Army signed a contract with the Israeli Missile Defense Organization (IMDO) for two Interim CMD (Iron Dome) Batteries. For each of the interim capability's Iron Dome Batteries, the Army intends to employ a configuration that matches the Israeli Firing Unit.</p> <p>Concurrently with the Interim CMD assessment, the Army will develop a launcher and interceptor solution that is integrated with the IBCS and the Sentinel sensor. The Army's decision for the IFPC Inc 2 capability will decide between an U.S. industry-based CMD launcher/interceptor and a componentized Iron Dome launcher/TAMIR-class interceptor. The Army will utilize a tailored acquisition approach to evaluate new capability and provide residual operational capability in FY 2023 and then transition into procurement and field by FY 2025.</p> <p>FY 2021 Base dollars in the amount of \$106.387 million are designated for procurement of the IFPC Inc 2 system.</p> | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | 12 | - | - | - | - | 12 | - | 36 | 36 | | |
| | Total Obligation Authority | 197.822 | 9.337 | 106.261 | - | 106.261 | 237.803 | 392.134 | 368.447 | 274.566 | | |
| Total: Secondary Distribution | Quantity | 12 | - | - | - | - | 12 | - | 36 | 36 | | |
| | Total Obligation Authority | 197.822 | 9.337 | 106.261 | - | 106.261 | 237.803 | 392.134 | 368.447 | 274.566 | | |

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|---|---|--------------------|---|-----------------------|--|--|--|--|--|--|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | | | | | | P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: N/A | | | | |
| Line Item MDAP/MAIS Code: 473 | | | | | | | | | | |
| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C62001 / IFPC Inc 2-I Block 1 Missile 1 | | | | - / 41.003 | - / 166.536 | - / - | - / - | - / - | - / - |
| P-5 | C62002 / IFPC INC 2-I BLOCK 1 SYSTEM | | | | - / - | 12 / 0.000 | - / 40.623 | - / 106.261 | - / - | - / 106.261 |
| P-40 | Total Gross/Weapon System Cost | | | | - / 41.003 | 12 / 166.536 | - / 40.623 | - / 106.261 | - / - | - / 106.261 |
| <p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p> | | | | | | | | | | |
| <p>Justification:</p> <p>As reported in Oct 2018, the Army will rapidly field an interim capability with the Israeli Iron Dome. Concurrently, the Army will integrate an IFPC capability of a launcher and interceptor leveraging the Army Integrated Air and Missile Defense (AIAMD) open systems architecture and IAMD Battle Command System (IBCS) as the Fire Control component, and US sensor (Sentinel).</p> <p>The Army approved a Directed Requirement to initiate procurement of the Israeli Iron Dome Missile System for an Interim CMD capability on 9 Feb 2019. Congress approved Above Threshold Reprogramming (ATR) actions to align IFPC FY 2018 and 2019 Procurement to fund the Interim CMD (Iron Dome) purchase and to repurpose the FY 2019 RDTE funds in May 2019.</p> <p>To support the Interim CMD requirement, the Army has signed a 10 U.S. code, paragraph 2373 procurement contract to procure two interim Iron Dome batteries for technical evaluation, assessment of operational utility, and safety evaluation. The Army is analyzing the availability of the IFPC Inc 2 materiel solution for a residual operational capability in the FY 2023/2024 timeframe mitigating the requirement for additional Interim CMD (Iron Dome) procurements. If continued assessment is determined to be necessary, the Army will procure two additional Interim CMD firing units through a modification to the 2373 procurement contract in FY 2021/2022 to meet the FY 2019 NDAA intent of a second set of Interim CMD units by FY 2023.</p> <p>To inform the IFPC solution, the Army verified technology readiness of interceptor alternatives in FY 2018 and received proposals for technology readiness assessments on launcher alternatives in FY 2019. These actions will inform the IFPC materiel solution decision. The Army will continue launcher and interceptor integration and testing to support the IFPC Inc 2 Production Decision planned for 1QFY2024 and unit fielding in FY 2025. A limited procurement is anticipated starting in FY 2023 to support the FY 2025 fielding.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-81), 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.</p> <p>This program supports the Air and Missile Defense Cross Functional Team (CFT).</p> | | | | | | | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | Date: February 2020 | | | | | | |
|--|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | | | | | | Item Number / Title [DODIC]: C62001 / IFPC Inc 2-I Block 1 Missile 1 | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | |
| Resource Summary | | | | Prior Years | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | | | |
| Procurement Quantity <i>(Units in Each)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | | | | 41.003 | | 166.536 | | - | | - | | - | | - | | | | |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | | | | 41.003 | | 166.536 | | - | | - | | - | | - | | | | |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Total Obligation Authority <i>(\$ in Millions)</i> | | | | 41.003 | | 166.536 | | - | | - | | - | | - | | | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | | | | 244.065 | | 2,191.263 | | - | | - | | - | | - | | | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| TAMIR Missiles and Associated Magazines | 163.315 | 165 | 26.947 | 163.040 | 75 | 12.228 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 26.947 | - | - | 12.228 | - | - | - | - | - | - | - | - | - | - | - | - |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Iron Dome Missile firing Unit with Prime Mover | - | - | - | 1,900.083 | 12 | 22.801 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | - | - | - | 22.801 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Flyaway Cost | - | - | 26.947 | - | - | 35.029 | - | - | - | - | - | - | - | - | - | - | - | - |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Iron Dome ELM-2084 Multi-Mission Radar | - | - | - | 25,374.500 | 2 | 50.749 | - | - | - | - | - | - | - | - | - | - | - | - |
| Iron Dome Battle Manangement Center | - | - | - | 3,240.000 | 2 | 6.480 | - | - | - | - | - | - | - | - | - | - | - | - |
| Iron Dome Communications Shelter with Prime Mover | - | - | - | 3,553.500 | 2 | 7.107 | - | - | - | - | - | - | - | - | - | - | - | - |
| Iron Dome Radar Control Shelter & | - | - | - | 5,582.500 | 2 | 11.165 | - | - | - | - | - | - | - | - | - | - | - | - |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | | | | | | Item Number / Title [DODIC]: C62001 / IFPC Inc 2-I Block 1 Missile 1 | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. | | | | | | | | | | | | | | | | | | |
| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Generator with Prime Mover | | | | | | | | | | | | | | | | | | |
| Iron Dome Ammunition & Maintenance Vehicles | - | - | - | 3,420.500 | 2 | 6.841 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | - | - | - | 82.342 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware Cost | - | - | - | - | - | 82.342 | - | - | - | - | - | - | - | - | - | - | - | - |
| Package Fielding Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Initial Repair Parts/ Support Equipment | - | - | - | - | - | 23.225 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | - | - | - | 23.225 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Package Fielding Cost | - | - | - | - | - | 23.225 | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - Congressional Adjustments Cost | | | | | | | | | | | | | | | | | | |
| Congressional Rescission | - | - | 5.182 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Congressional Adjustments Cost | - | - | 5.182 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - Government Furnished Materials Cost | | | | | | | | | | | | | | | | | | |
| Government Furnished Materials | - | - | 8.874 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Government Furnished Materials Cost | - | - | 8.874 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Contractor Management | - | - | - | - | - | 25.940 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Program Management Cost | - | - | - | - | - | 25.940 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | 244.065 | - | 41.003 | 2,191.263 | - | 166.536 | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | | |
| Secondary Distribution | | | | | | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | | |
| Army | | Quantity | | | | - | | - | | - | | - | | - | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | | Item Number / Title [DODIC]: C62001 / IFPC Inc 2-I Block 1 Missile 1 | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | MDAP/MAIS Code: | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Total Obligation Authority | | 166.536 | - | - | - | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 166.536 | - | - | - | - |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | Date: February 2020 | | | | | | |
|--|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | | P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | | | | | | Item Number / Title [DODIC]: C62002 / IFPC INC 2-I BLOCK 1 SYSTEM | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | |
| Resource Summary | | | | Prior Years | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | | | |
| Procurement Quantity <i>(Units in Each)</i> | | | | - | | 12 | | - | | - | | - | | - | | - | | |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | | | | - | | 0.000 | | 40.623 | | 106.261 | | - | | 106.261 | | | | |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | 31.286 | | - | | - | | - | | | | |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | | | | - | | 0.000 | | 9.337 | | 106.261 | | - | | 106.261 | | | | |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | 31.286 | | - | | - | | - | | - | | | | |
| Total Obligation Authority <i>(\$ in Millions)</i> | | | | - | | 31.286 | | 9.337 | | 106.261 | | - | | 106.261 | | | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | - | | |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | | | | - | | - | | - | | - | | - | | - | | - | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| TAMIR Missiles and Associated Magazines | - | - | - | - | - | - | - | - | - | 169.825 | 240 | 40.758 | - | - | - | 169.825 | 240 | 40.758 |
| Iron Dome Launcher | - | - | - | - | - | - | 2,607.167 | 12 | 31.286 | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | 31.286 | - | - | 40.758 | - | - | - | - | - | 40.758 |
| Subtotal: Hardware Cost | - | - | - | - | - | - | - | - | 31.286 | - | - | 40.758 | - | - | - | - | - | 40.758 |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | - | 396.500 | 12 | 4.758 | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Fielding Cost | - | - | - | - | - | - | - | - | 4.758 | - | - | - | - | - | - | - | - | - |
| Support - Government Furnished Materials Cost | | | | | | | | | | | | | | | | | | |
| Government Furnished Materials | - | - | - | - | - | - | - | - | - | - | - | 40.492 | - | - | - | - | - | 40.492 |
| Subtotal: Support - Government Furnished Materials Cost | - | - | - | - | - | - | - | - | - | - | - | 40.492 | - | - | - | - | - | 40.492 |
| Support - Logistics Cost | | | | | | | | | | | | | | | | | | |
| Integrated Logistics Support | - | - | - | - | - | - | - | - | - | - | - | 25.011 | - | - | - | - | - | 25.011 |
| Subtotal: Support - Logistics Cost | - | - | - | - | - | - | - | - | - | - | - | 25.011 | - | - | - | - | - | 25.011 |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | | | | P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | | | | | Item Number / Title [DODIC]: C62002 / IFPC INC 2-I BLOCK 1 SYSTEM | | | | | | | |

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

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

| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Government Management | - | - | - | - | - | - | - | - | 4.579 | - | - | - | - | - | - | - | - | - |
| <i>Subtotal: Support - Program Management Cost</i> | - | - | - | - | - | - | - | - | 4.579 | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost | - | - | - | - | 12 | 0.000 | - | - | 40.623 | - | - | 106.261 | - | - | - | - | - | 106.261 |

Remarks:

FY 2019 funding of \$31.286M was realigned from Advance Procurement to Base Procurement as part of Above Threshold Reprogramming (ATR) 19-04 to procure a portion of the FY 2019 Interim CMD (Iron Dome) hardware.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|--------------------------------------|----------------------------|---------|---------|--------------|-------------|---------------|
| Army | Quantity | 12 | - | - | - | - |
| | Total Obligation Authority | 31.286 | 9.337 | 106.261 | - | 106.261 |
| Total: Secondary Distribution | Quantity | 12 | - | - | - | - |
| | Total Obligation Authority | 31.286 | 9.337 | 106.261 | - | 106.261 |

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| Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | | | | | | | P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | | | | | |
| Program Elements for Code B Items: N/A | | | | | | | Other Related Program Elements: N/A | | | | | |
| Line Item MDAP/MAIS Code: 473 | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Gross/Weapon System Cost (\$ in Millions) | - | 31.286 | - | - | - | - | - | - | - | - | Continuing | Continuing |
| Net Procurement (P-1) (\$ in Millions) | - | 31.286 | - | - | - | - | - | - | - | - | Continuing | Continuing |
| Total Obligation Authority (\$ in Millions) | - | 31.286 | - | - | - | - | - | - | - | - | Continuing | Continuing |

Description:

The Indirect Fire Protection Capability Increment 2 (IFPC Inc 2) will provide a ground-based weapon system designed to acquire, track, engage, and defeat Cruise Missiles (CM), Unmanned Aircraft Systems (UAS), and Rocket, Artillery, and Mortar (RAM) threats. The IFPC Inc 2 system consists of a launcher and interceptor integrated with the Army Integrated Air and Missile Defense (AIAMD) open systems architecture, IAMD Battle Command System (IBCS), and the Sentinel sensor to support the Threshold CM and UAS defeat mission. The Objective counter-RAM mission employs both alternative kinetic and non-kinetic defeat solutions.

In Fiscal Year (FY) 2018, the Army evaluated alternative strategies to address an Army interim CM defense (CMD) capability at critical strategic fixed site locations while continuing the development of an IFPC capability. On 5 December 2019, the Army signed a contract with the Israeli Missile Defense Organization (IMDO) for two Interim CMD (Iron Dome) Batteries. For each of the interim capability's Iron Dome Batteries, the Army intends to employ a configuration that matches the Israeli Firing Unit.

Concurrently with the Interim CMD assessment, the Army will develop a launcher and interceptor solution that is integrated with the IBCS and the Sentinel sensor. The Army's decision for the IFPC Inc 2 capability will decide between an U.S. industry-based CMD launcher/interceptor and a componentized Iron Dome launcher/TAMIR-class interceptor. The Army will utilize a tailored acquisition approach to evaluate new capability and provide residual operational capability in FY 2023 and then transition into procurement and field by FY 2025.

No acquisition of Advance Procurement items is planned for FY 2021 funds.

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| Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2021 Army | Date: February 2020 |
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| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 10: Surface-to-Air Missile System | P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I |
|---|--|

| | |
|---|--|
| Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|--|

Line Item MDAP/MAIS Code: 473

| Exhibits Schedule | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|-------------------|--------------------------------------|-------|----------------|--|--|--|--|--|--|
| Exhibit Type | Title* | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-10 | C62002 / IFPC INC 2-I BLOCK 1 SYSTEM | | | - / - | 12 / 31.286 | - / - | - / - | - / - | - / - |
| P-40 | Total Gross/Weapon System Cost | | | - / - | 12 / 31.286 | - / - | - / - | - / - | - / - |

*Title represents the P-10 Title for Advance Procurement.

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

Justification:

No acquisition of advance procurement items is planned for FY 2021 funds.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-81), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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| Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2021 Army | | | | | Date: February 2020 | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | | | P-5 Number / Title: C62002 / IFPC INC 2-I BLOCK 1 SYSTEM | |
| First System (2021) Award Date: April 2019 | | First System (2021) Completion Date: December 2020 | | Interval Between Systems: 12 Months | | |
| IFPC INC 2-I BLOCK 1 SYSTEM | | Production Leadtime <i>(Months)</i> | Prior Years <i>(Each)</i> | FY 2019 <i>(Each)</i> | FY 2020 <i>(Each)</i> | FY 2021 <i>(Each)</i> |
| Quantity | | | - | 12 | - | - |
| | | | | | | |
| Cost Elements | | When Required <i>(Months)</i> | Prior Years <i>(\$ M)</i> | FY 2019 <i>(\$ M)</i> | FY 2020 <i>(\$ M)</i> | FY 2021 <i>(\$ M)</i> |
| Other | | | | | | |
| ATR - Realign to Base for Iron Dome Procurement | | - | - | 31.286 | - | - |
| <i>Total: Other</i> | | | - | 31.286 | - | - |
| Total Advance Procurement/Obligation Authority | | | - | 31.286 | - | - |
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| Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2021 Army | | | | | | Date: February 2020 | |
|---|----------------------|--|----------------------------|---------------------------|---------------------------|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 10 | | P-1 Line Item Number / Title: 8930C61001 / INDIRECT FIRE PROTECTION CAPABILITY INC 2-I | | | | P-5 Number / Title: C62002 / IFPC INC 2-I BLOCK 1 SYSTEM | |
| Cost Elements | QPA <i>(Each)</i> | FY 2021 | | | | | |
| | | Production Leadtime <i>(Months)</i> | Unit Cost <i>(\$ K)</i> | Contract Forecast Date | 2021 Qty <i>(Each)</i> | For FY | Total Cost Request <i>(\$ M)</i> |
| Other | | | | | | | |
| ATR - Realign to Base for Iron Dome Procurement | - | | | | | | - |
| Total: Other | | | | | | | - |
| Total Advance Procurement/Obligation Authority | | | | | | | - |

Description:

FY 2017 Advance Procurement of MML materials for \$19.319 million was Rescinded by NDAA FY2018.

FY 2019 Advance Procurement of MML materials for \$31.286 million was realigned to Base Procurement funding to support the Procurement of the Interim CMD (Iron Dome) capability.

No acquisition of Advance Procurement items is planned for FY 2021 funds.

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|--|-----------------------------------|----------------|---|---------------------|--------------------|---|---|----------------|----------------|----------------------------|--------------------|-------------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System | | | | | | P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): A | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0203802A, 0210109A | | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | 74,479 | 2,034 | 4,902 | 428 | 3,090 | 3,518 | 1,154 | 1,410 | 44 | - | Continuing | Continuing |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 4,450.256 | 193.674 | 425.549 | 91.225 | 236.265 | 327.490 | 147.329 | 182.703 | 36.216 | 15.765 | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | 44.275 | - | - | - | - | - | - | - | - | - | - | 44.275 |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 4,405.981 | 193.674 | 425.549 | 91.225 | 236.265 | 327.490 | 147.329 | 182.703 | 36.216 | 15.765 | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | 44.275 | - | - | - | - | - | - | - | - | - | - | 44.275 |
| Total Obligation Authority (<i>\$ in Millions</i>) | 4,450.256 | 193.674 | 425.549 | 91.225 | 236.265 | 327.490 | 147.329 | 182.703 | 36.216 | 15.765 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 59.752 | 95.218 | 86.811 | 213.143 | 76.461 | 93.090 | 127.668 | 129.577 | 823.091 | - | Continuing | Continuing |
| Description: The HELLFIRE II and Longbow family of air-to-ground missiles (all variants) provide attack helicopters and unmanned aircraft systems (UAS) with point-target precision strike capability to defeat heavy, advanced armor, individual hard point and non-traditional targets. HELLFIRE II Missiles use a semi-active laser terminal guidance and are the primary armaments of the AH-64 Apache, Army UAS and Special Operations aircraft. The HELLFIRE II includes Electro-Optical Countermeasure capability, warhead improvements and an updated electronic fuze. The AGM-114R HELLFIRE II family of missiles replaces all other HELLFIRE II missile configurations (K/N/M/P) except HELLFIRE Longbow. HELLFIRE II procurement funding supports the entire HELLFIRE II and HELLFIRE Longbow systems to include resolution of obsolescence, end-of-life buys, safety, insensitive munitions, reliability, weapon integration activities, test sets, engineering changes, facilitization, production ramp-up activities and production issues. This missile is compatible on all current force UAS and rotary wing platforms. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | 2,034 | 4,902 | 428 | 3,090 | 3,518 | 1,154 | 1,410 | 44 | - | | |
| | Total Obligation Authority | 193.674 | 425.549 | 91.225 | 236.265 | 327.490 | 147.329 | 182.703 | 36.216 | 15.765 | | |
| Total: Secondary Distribution | Quantity | 2,034 | 4,902 | 428 | 3,090 | 3,518 | 1,154 | 1,410 | 44 | - | | |
| | Total Obligation Authority | 193.674 | 425.549 | 91.225 | 236.265 | 327.490 | 147.329 | 182.703 | 36.216 | 15.765 | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System | | | | | | P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): A | | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0203802A, 0210109A | | | |
| 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 | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII) | P-5a, P-21 | | | 74,479 / 4,450.256 | 2,034 / 193.674 | 4,902 / 425.549 | 428 / 91.225 | 3,090 / 236.265 | 3,518 / 327.490 |
| P-40 | Total Gross/Weapon System Cost | | | | 74,479 / 4,450.256 | 2,034 / 193.674 | 4,902 / 425.549 | 428 / 91.225 | 3,090 / 236.265 | 3,518 / 327.490 |
| <p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p> | | | | | | | | | | |
| <p>Justification:</p> <p>FY2021 funding totals include \$91.225M in Base with a quantity of 428 and \$236.265M in OCO with a quantity of 3,090.</p> <p>FY2021 All-up Round Unit Cost is based on a total qty of 7,659 missiles across all Customers. The Air-to-Ground Missile Systems (AGMS) Family of Munitions Production Capacity of 11,000 is shared by all customers (Army, AF, Navy, & FMS) and all AGMS missile variants (HF, JAGM, & Trainers). FY2021 has an available capacity of 3,341 AGMS missiles. Total procurement quantities decreased due to a \$153M reduction to the Army FY2021 budget and a \$48M reduction to the AF FY2021 budget.</p> <p>The Army intends to convert any price advantage created through contract negotiations, other service procurement and/or Foreign Military sales (FMS) to increase the Army procurement of HELLFIRE II missiles.</p> <p>The historical Army Acquisition Objective was 34,292.</p> <p>HELLFIRE Product Office is the Procuring Agency for all Services.</p> <p>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.</p> | | | | | | | | | | |

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|--|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------------|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | | | P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary | | | | | | Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII) | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | 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) | | | | 74,479 | | 2,034 | | 4,902 | | 428 | | 3,090 | | 3,518 | | | | |
| Gross/Weapon System Cost (\$ in Millions) | | | | 4,450.256 | | 193.674 | | 425.549 | | 91.225 | | 236.265 | | 327.490 | | | | |
| Less PY Advance Procurement (\$ in Millions) | | | | - | | - | | - | | - | | - | | - | | | | |
| Net Procurement (P-1) (\$ in Millions) | | | | 4,450.256 | | 193.674 | | 425.549 | | 91.225 | | 236.265 | | 327.490 | | | | |
| Plus CY Advance Procurement (\$ in Millions) | | | | - | | - | | - | | - | | - | | - | | | | |
| Total Obligation Authority (\$ in Millions) | | | | 4,450.256 | | 193.674 | | 425.549 | | 91.225 | | 236.265 | | 327.490 | | | | |
| (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) | | | | 59.752 | | 95.218 | | 86.811 | | 213.143 | | 76.461 | | 93.090 | | | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| All-up Rounds ^(†) | 45.544 | 74,479 | 3,392.067 | 78.228 | 2,034 | 159.116 | 72.094 | 5,112 | 368.544 | 76.460 | 428 | 32.725 | 76.461 | 3,090 | 236.265 | 76.461 | 3,518 | 268.990 |
| Engineering Services | - | - | 496.779 | - | - | 1.159 | - | - | 31.591 | - | - | 29.387 | - | - | - | - | - | 29.387 |
| Acceptance Testing | - | - | 86.954 | - | - | 1.795 | - | - | 2.086 | - | - | 1.499 | - | - | - | - | - | 1.499 |
| Subtotal: Recurring Cost | - | - | 3,975.800 | - | - | 162.070 | - | - | 402.221 | - | - | 63.611 | - | - | 236.265 | - | - | 299.876 |
| Subtotal: Flyaway Cost | - | - | 3,975.800 | - | - | 162.070 | - | - | 402.221 | - | - | 63.611 | - | - | 236.265 | - | - | 299.876 |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | 39.367 | - | - | 6.119 | - | - | 4.982 | - | - | 5.141 | - | - | - | - | - | 5.141 |
| Subtotal: Support - Fielding Cost | - | - | 39.367 | - | - | 6.119 | - | - | 4.982 | - | - | 5.141 | - | - | - | - | - | 5.141 |
| Support - Production Engineering Cost | | | | | | | | | | | | | | | | | | |
| Production Engineering | - | - | 195.259 | - | - | 13.547 | - | - | 9.984 | - | - | 15.502 | - | - | - | - | - | 15.502 |
| Subtotal: Support - Production Engineering Cost | - | - | 195.259 | - | - | 13.547 | - | - | 9.984 | - | - | 15.502 | - | - | - | - | - | 15.502 |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 239.839 | - | - | 11.938 | - | - | 8.364 | - | - | 6.971 | - | - | - | - | - | 6.971 |
| Subtotal: Support - Program Management Cost | - | - | 239.839 | - | - | 11.938 | - | - | 8.364 | - | - | 6.971 | - | - | - | - | - | 6.971 |
| Gross/Weapon System Cost | 59.752 | 74,479 | 4,450.256 | 95.218 | 2,034 | 193.674 | 86.811 | 4,902 | 425.549 | 213.143 | 428 | 91.225 | 76.461 | 3,090 | 236.265 | 93.090 | 3,518 | 327.490 |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | Date: February 2020 |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary | Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII) |

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

Remarks:

Fixed Price Incentive Fee (FPIF)

The production unit cost is based on all Services' base and Overseas Contingency Operations (OCO) quantity requirements known at this time. Above quantities are Army only. Total quantities include procurement by US Air Force, US Navy, US Army and FMS cases. Excess capacity will determine future FMS quantity availability. All procurement of Hellfire II AGM-114R missiles are reflected on the P21.

Exhibit P-5: Program Management and Production Engineering costs are allocated to services on a pro-rata share of quantities procured.

FY21 Program Management and Production Engineering costs increased based on the pro-rata share of these costs due to a \$153M reduction in the Army FY2021 funding and a \$48M reduction in the AF FY2021 funding.

Based on contract structure, all customers pay the same Unit Cost for the same configuration.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|--|-----------------------------------|----------------|----------------|-----------------|----------------|------------------|
| Army | Quantity | 2,034 | 4,902 | 428 | 3,090 | 3,518 |
| | Total Obligation Authority | 193.674 | 425.549 | 91.225 | 236.265 | 327.490 |
| Total: Secondary Distribution | Quantity | 2,034 | 4,902 | 428 | 3,090 | 3,518 |
| | Total Obligation Authority | 193.674 | 425.549 | 91.225 | 236.265 | 327.490 |

(t) 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: 2032A / 02 / 20 | | | | P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary | | | | Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII) | | | | |

| Cost Elements | O C 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 |
|------------------------------|-------------|------|--|--------------------------------------|----------------------|---------------|------------------------------|---------------|---------------------|------------------------|-------------------------------|-------------------|
| All-up Rounds | | 2016 | HELLFIRE Sys Limited Liability / Orlando | SS / FPIF | Redstone Arsenal, AL | Feb 2017 | Mar 2019 | 113 | 175.000 | Y | | Dec 2013 |
| All-up Rounds | | 2016 | HF Sys Limited Liability / Orlando | SS / FPIF | Redstone Arsenal, AL | Feb 2017 | Mar 2019 | 270 | 121.000 | Y | | Dec 2013 |
| All-up Rounds ^(†) | | 2017 | Lockheed Missile and Fire Ctrl / Orlando | SS / FPIF | Redstone Arsenal, AL | Sep 2017 | Oct 2019 | 4,362 | 74.160 | Y | | Dec 2013 |
| All-up Rounds ^(†) | ✓ | 2017 | Lockheed Missile and Fire Ctrl / Orlando | SS / FPIF | Redstone Arsenal, AL | Sep 2017 | Oct 2019 | 1,323 | 74.160 | Y | | Dec 2013 |
| All-up Rounds ^(†) | | 2018 | Lockheed Missile and Fire Ctrl / Orlando | SS / FPIF | Redstone Arsenal, AL | Sep 2018 | Oct 2020 | 5,233 | 69.764 | Y | | Dec 2016 |
| All-up Rounds ^(†) | | 2019 | Lockheed Missile and Fire Ctrl / Orlando | SS / FPIF | Redstone Arsenal, AL | Apr 2019 | Oct 2021 | 2,034 | 78.228 | Y | | Dec 2016 |
| All-up Rounds ^(†) | | 2020 | Lockheed Missile and Fire Ctrl / Orlando | SS / FPIF | Redstone Arsenal, AL | May 2020 | Oct 2022 | 5,112 | 72.094 | Y | | Dec 2016 |
| All-up Rounds ^(†) | ✓ | 2021 | Lockheed Missile and Fire Ctrl / Orlando | SS / FPIF | Redstone Arsenal, AL | May 2021 | Oct 2023 | 3,090 | 76.461 | Y | | Dec 2016 |
| All-up Rounds ^(†) | | 2021 | Lockheed Missile and Fire Ctrl / Orlando | SS / FPIF | Redstone Arsenal, AL | May 2021 | Oct 2023 | 428 | 76.460 | Y | | Dec 2016 |

^(†) indicates the presence of a P-21

Remarks:
Fixed Price Incentive Fee (FPIF)

The production unit cost is based on all Services' base and Overseas Contingency Operations (OCO) quantity requirements known at this time. Above quantities are Army only. Total quantities include procurement by US Air Force, US Navy, US Army and FMS cases. Excess capacity will determine future FMS quantity availability. All procurement of Hellfire II AGM-114R missiles are reflected on the P21.

See Exhibit P-5 for Unit Cost. Program Management, Production Engineering and unit cost may change based on quantities procured by all Services and Foreign Military Sales (FMS) customers.

Based on contract structure all customers pay the same Unit Cost for the same configuration.

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | |
|---|------------------|------|------------|-------------|---|------------------------------|------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|---|---------------------------------|-------|---|-------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | | | | | | | P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary | | | | | | | | | | Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII) | | | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | | B A L A N C E | | | |
| O C C O | M F R # | FY | SERVICE | PROC QTY | ACCEP T P R I O R T O 1 O C T 2 0 1 6 | BAL DUE AS OF 1 OCT | | | | Calendar Year 2017 | | | | | | | | | | Calendar Year 2018 | | | | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | |
| All-up Rounds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 63178 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 4,362 | 0 | 4,362 | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4,362 |
| | 1 | 2017 | FMS (#) | 965 | 0 | 965 | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 965 |
| | 1 | 2017 | Total | 5,327 | 0 | 5,327 | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5,327 |
| ✓ | 1 | 2017 | ARMY | 1,323 | 0 | 1,323 | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,323 |
| | 1 | 2018 | ARMY | 5,233 | 0 | 5,233 | | | | | | | | | | | | | | | | | | | | | | | | | | | A - | 5,233 | | |
| | 1 | 2018 | FMS (#) | 71 | 0 | 71 | | | | | | | | | | | | | | | | | | | | | | | | | | | A - | 71 | | |
| | 1 | 2018 | Total | 5,304 | 0 | 5,304 | | | | | | | | | | | | | | | | | | | | | | | | | | | - | 5,304 | | |
| | 1 | 2019 | ARMY | 2,034 | 0 | 2,034 | | | | | | | | | | | | | | | | | | | | | | | | | | | 2,034 | | | |
| | 1 | 2019 | FMS (#) | 208 | 0 | 208 | | | | | | | | | | | | | | | | | | | | | | | | | | | 208 | | | |
| | 1 | 2019 | Total | 2,242 | 0 | 2,242 | | | | | | | | | | | | | | | | | | | | | | | | | | | 2,242 | | | |
| | 1 | 2020 | AF (#) | 3,859 | 0 | 3,859 | | | | | | | | | | | | | | | | | | | | | | | | | | | 3,859 | | | |
| | 1 | 2020 | ARMY | 5,112 | 0 | 5,112 | | | | | | | | | | | | | | | | | | | | | | | | | | | 5,112 | | | |
| | 1 | 2020 | FMS (#) | 681 | 0 | 681 | | | | | | | | | | | | | | | | | | | | | | | | | | | 681 | | | |
| | 1 | 2020 | Total | 9,652 | 0 | 9,652 | | | | | | | | | | | | | | | | | | | | | | | | | | | 9,652 | | | |
| | 1 | 2021 | AF (#) | 2,687 | 0 | 2,687 | | | | | | | | | | | | | | | | | | | | | | | | | | | 2,687 | | | |
| | 1 | 2021 | ARMY | 428 | 0 | 428 | | | | | | | | | | | | | | | | | | | | | | | | | | | 428 | | | |
| | 1 | 2021 | Total Base | 3,115 | 0 | 3,115 | | | | | | | | | | | | | | | | | | | | | | | | | | | 3,115 | | | |
| ✓ | 1 | 2021 | ARMY | 3,090 | 0 | 3,090 | | | | | | | | | | | | | | | | | | | | | | | | | | | 3,090 | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | |
|---|-------|------|------------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|---------|--|--|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | | | | | | | P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary | | | | | | | | | | Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII) | | | | | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | | BALANCE | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | Calendar Year 2019 | | | | | | | | | | | | | Calendar Year 2020 | | | | | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | | |
| All-up Rounds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 63178 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 4,362 | 0 | 4,362 | - | - | - | - | - | - | - | - | - | - | - | - | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 363 | 359 | 0 | | | | | | |
| | 1 | 2017 | FMS (†) | 965 | 0 | 965 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 965 | | | | | | |
| | 1 | 2017 | Total | 5,327 | 0 | 5,327 | - | - | - | - | - | - | - | - | - | - | - | - | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 363 | 359 | 965 | | | | | | |
| ✓ | 1 | 2017 | ARMY | 1,323 | 0 | 1,323 | - | - | - | - | - | - | - | - | - | - | - | - | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 102 | 0 | | | | | | |
| | 1 | 2018 | ARMY | 5,233 | 0 | 5,233 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5,233 | | | | | | |
| | 1 | 2018 | FMS (†) | 71 | 0 | 71 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 0 | | | | | | |
| | 1 | 2018 | Total | 5,304 | 0 | 5,304 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5,233 | | | | | | |
| | 1 | 2019 | ARMY | 2,034 | 0 | 2,034 | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2,034 | | | | | | |
| | 1 | 2019 | FMS (†) | 208 | 0 | 208 | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 208 | | | | | | |
| | 1 | 2019 | Total | 2,242 | 0 | 2,242 | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2,242 | | | | | | |
| | 1 | 2020 | AF (†) | 3,859 | 0 | 3,859 | | | | | | | | | | | | | | | A - | | | | | | - | - | - | - | - | 3,859 | | | | | | |
| | 1 | 2020 | ARMY | 5,112 | 0 | 5,112 | | | | | | | | | | | | | | | A - | | | | | | - | - | - | - | - | 5,112 | | | | | | |
| | 1 | 2020 | FMS (†) | 681 | 0 | 681 | | | | | | | | | | | | | | | A - | | | | | | - | - | - | - | - | 681 | | | | | | |
| | 1 | 2020 | Total | 9,652 | 0 | 9,652 | | | | | | | | | | | | | | | - | | | | | | - | - | - | - | - | 9,652 | | | | | | |
| | 1 | 2021 | AF (†) | 2,687 | 0 | 2,687 | | | | | | | | | | | | | | | | | | | | | | | | | | 2,687 | | | | | | |
| | 1 | 2021 | ARMY | 428 | 0 | 428 | | | | | | | | | | | | | | | | | | | | | | | | | | 428 | | | | | | |
| | 1 | 2021 | Total Base | 3,115 | 0 | 3,115 | | | | | | | | | | | | | | | | | | | | | | | | | | 3,115 | | | | | | |
| ✓ | 1 | 2021 | ARMY | 3,090 | 0 | 3,090 | | | | | | | | | | | | | | | | | | | | | | | | | | 3,090 | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | |
|---|-------|------|------------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|--------------------|---------------------|-----|---|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|-------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | | | | | | | P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary | | | | | | | | | | Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII) | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2021 | | | | | | | | | | Fiscal Year 2022 | | | | | | | | | | BALANCE | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | Calendar Year 2021 | | | | | | | | | | Calendar Year 2022 | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | | JUN | JUL | AUG | SEP |
| All-up Rounds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 63178 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 4,362 | 4,362 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| | 1 | 2017 | FMS (‡) | 965 | 0 | 965 | 81 | 81 | 81 | 81 | 81 | 80 | 80 | 80 | 80 | 80 | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| | 1 | 2017 | Total | 5,327 | 4,362 | 965 | 81 | 81 | 81 | 81 | 81 | 80 | 80 | 80 | 80 | 80 | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| ✓ | 1 | 2017 | ARMY | 1,323 | 1,323 | 0 | | | | | | | | | | | | | | | | | | | | | 0 | | | | |
| | 1 | 2018 | ARMY | 5,233 | 0 | 5,233 | 437 | 436 | 436 | 436 | 436 | 436 | 436 | 436 | 436 | 436 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| | 1 | 2018 | FMS (‡) | 71 | 71 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| | 1 | 2018 | Total | 5,304 | 71 | 5,233 | 437 | 436 | 436 | 436 | 436 | 436 | 436 | 436 | 436 | 436 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| | 1 | 2019 | ARMY | 2,034 | 0 | 2,034 | - | - | - | - | - | - | - | - | - | - | 170 | 170 | 170 | 170 | 170 | 170 | 169 | 169 | 169 | 169 | 169 | 169 | 169 | 169 | 0 |
| | 1 | 2019 | FMS (‡) | 208 | 0 | 208 | - | - | - | - | - | - | - | - | - | - | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 0 |
| | 1 | 2019 | Total | 2,242 | 0 | 2,242 | - | - | - | - | - | - | - | - | - | - | 188 | 188 | 188 | 188 | 187 | 187 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 186 | 0 |
| | 1 | 2020 | AF (‡) | 3,859 | 0 | 3,859 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3,859 |
| | 1 | 2020 | ARMY | 5,112 | 0 | 5,112 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5,112 |
| | 1 | 2020 | FMS (‡) | 681 | 0 | 681 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 681 |
| | 1 | 2020 | Total | 9,652 | 0 | 9,652 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9,652 |
| | 1 | 2021 | AF (‡) | 2,687 | 0 | 2,687 | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2,687 |
| | 1 | 2021 | ARMY | 428 | 0 | 428 | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 428 |
| | 1 | 2021 | Total Base | 3,115 | 0 | 3,115 | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3,115 |
| ✓ | 1 | 2021 | ARMY | 3,090 | 0 | 3,090 | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3,090 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | |
|---|-------|------|------------|----------|----------------------------|---------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|--|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | | | | P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary | | | | | | | | | | | | | Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII) | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2023 | | | | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | | BALANCE | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | Calendar Year 2023 | | | | | | | | | | Calendar Year 2024 | | | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | | SEP | | |
| All-up Rounds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 63178 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 4,362 | 4,362 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | FMS (†) | 965 | 965 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | Total | 5,327 | 5,327 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | |
| ✓ | 1 | 2017 | ARMY | 1,323 | 1,323 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 5,233 | 5,233 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | FMS (†) | 71 | 71 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | Total | 5,304 | 5,304 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | |
| | 1 | 2019 | ARMY | 2,034 | 2,034 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2019 | FMS (†) | 208 | 208 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2019 | Total | 2,242 | 2,242 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | |
| | 1 | 2020 | AF (†) | 3,859 | 0 | 3,859 | 322 | 322 | 322 | 322 | 322 | 322 | 321 | 321 | 321 | 321 | 321 | | | | | | | | | | | 0 | | | | | |
| | 1 | 2020 | ARMY | 5,112 | 0 | 5,112 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | | | | | | | | | | | 0 | | | | | |
| | 1 | 2020 | FMS (†) | 681 | 0 | 681 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 56 | 56 | 56 | | | | | | | | | | | 0 | | | | | |
| | 1 | 2020 | Total | 9,652 | 0 | 9,652 | 805 | 805 | 805 | 805 | 805 | 805 | 804 | 804 | 803 | 803 | 803 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | |
| | 1 | 2021 | AF (†) | 2,687 | 0 | 2,687 | - | - | - | - | - | - | - | - | - | - | - | 224 | 224 | 224 | 224 | 224 | 224 | 224 | 224 | 224 | 224 | 224 | 223 | 0 | | | |
| | 1 | 2021 | ARMY | 428 | 0 | 428 | - | - | - | - | - | - | - | - | - | - | - | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 32 | 0 | | |
| | 1 | 2021 | Total Base | 3,115 | 0 | 3,115 | - | - | - | - | - | - | - | - | - | - | - | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 260 | 255 | 0 | | |
| ✓ | 1 | 2021 | ARMY | 3,090 | 0 | 3,090 | - | - | - | - | - | - | - | - | - | - | - | 258 | 258 | 258 | 258 | 258 | 258 | 258 | 258 | 258 | 258 | 258 | 258 | 252 | 0 | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | P-1 Line Item Number / Title: 1338C70000 / Hellfire Sys Summary | | | Item Number / Title [DODIC]: C70100 / LASER HELLFIRE MSL (BASIC/IHW/HFII) | |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
|-----------------|---|--------------------------------|----------------|--------------|-------------------------------|--------------------|----------------------|----------------------|-----------------------|--------------------|----------------------|----------------------|
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | Initial | | | | Reorder | | | |
| | | | | | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Lockheed Missile and Fire Ctrl - Orlando | 3,600 | 6,000 | 11,000 | 5 | 12 | 24 | 36 | 5 | 12 | 24 | 36 |

Remarks:

Yearly Minimum Sustainment Rate (MSR) = 3,600 missiles.
 Yearly Economical Production Rate (1-8-5) = 6,000 missiles.
 Yearly Maximum Production Rate (MPR) = 11,000 missiles.

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

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

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

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|---|-----------------------------------|----------------|---|---------------------|--------------------|--|---|----------------|----------------|----------------------------|--------------------|------------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System | | | | | | P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0605450A | | | | | |
| Line Item MDAP/MAIS Code: 355 | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | 1,272 | 721 | 494 | 657 | - | 657 | 294 | 603 | 544 | 548 | - | 5,133 |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 313.244 | 256.462 | 199.295 | 213.397 | - | 213.397 | 165.494 | 213.375 | 208.607 | 206.140 | - | 1,776.014 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | 64.456 | - | - | - | - | - | - | - | - | - | - | 64.456 |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 248.788 | 256.462 | 199.295 | 213.397 | - | 213.397 | 165.494 | 213.375 | 208.607 | 206.140 | - | 1,711.558 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | 64.456 | - | - | - | - | - | - | - | - | - | - | 64.456 |
| Total Obligation Authority (<i>\$ in Millions</i>) | 313.244 | 256.462 | 199.295 | 213.397 | - | 213.397 | 165.494 | 213.375 | 208.607 | 206.140 | - | 1,776.014 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 246.261 | 355.703 | 403.431 | 324.805 | - | 324.805 | 562.905 | 353.856 | 383.469 | 376.168 | - | 345.999 |
| Description: The Joint Air-to-Ground Missile (JAGM) program is an Army-led, Acquisition Category (ACAT) IC Major Defense Acquisition Program (MDAP) with joint interest with the U.S. Marine Corps (USMC), U.S. Navy, and U.S. Air Force. The JAGM is the next generation of aviation-launched, fire and forget missiles to replace all variants of HELLFIRE. The JAGM multi-mode Guidance Section is integrated with the combat proven HELLFIRE II (AGM-114R) propulsion, warhead, and control section. JAGM will be used by joint service aircraft for destruction of high value stationary, moving, and relocatable land and maritime targets from standoff range in day, night, adverse weather, and obscured battlefield conditions. The program's threshold platforms are the U.S. Army AH-64E Apache and USMC AH-1Z. JAGM procurement funding supports the entire JAGM system to include resolution of obsolescence, training devices for tactical training, safety, reliability, weapon integration activities, test sets, engineering services, facilitization, production ramp-up activities and production issues. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | 721 | 494 | 657 | - | 657 | 294 | 603 | 544 | 548 | | |
| | Total Obligation Authority | 256.462 | 199.295 | 213.397 | - | 213.397 | 165.494 | 213.375 | 208.607 | 206.140 | | |
| Total: Secondary Distribution | Quantity | 721 | 494 | 657 | - | 657 | 294 | 603 | 544 | 548 | | |
| | Total Obligation Authority | 256.462 | 199.295 | 213.397 | - | 213.397 | 165.494 | 213.375 | 208.607 | 206.140 | | |

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|---|--|--------------------|--------------|---|--|--|---|--|--|--|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System | | | | | | P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0605450A | | | |
| Line Item MDAP/MAIS Code: 355 | | | | | | | | | | |
| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C70302 / Joint Air-to-Ground MSLS (JAGM) | P-5a, P-21 | | | 1,272 / 313.244 | 721 / 256.462 | 494 / 199.295 | 657 / 213.397 | - / - | 657 / 213.397 |
| P-40 | Total Gross/Weapon System Cost | | | | 1,272 / 313.244 | 721 / 256.462 | 494 / 199.295 | 657 / 213.397 | - / - | 657 / 213.397 |
| <p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p> | | | | | | | | | | |
| <p>Justification:</p> <p>FY 2021 procurement dollars in the amount of \$213.397M supports the procurement of 657 missiles and Project Management Cost and Engineering Services funding.</p> <p>The Army intends to convert any price advantage created through contract negotiations and/or other service procurement to increase the Army procurement of JAGM missiles.</p> <p>The JAGM Product Office is the procurement agent for all services.</p> <p>The Army Acquisition Objective is 20,303.</p> <p>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.</p> | | | | | | | | | | |

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|--|------------------|------------|-------------------|------------------|------------|---|------------------|------------|-------------------|------------------|---------------------|--|------------------|---------------|-------------------|------------------|------------|-------------------|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | | | P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | 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) | | | | 1,272 | | 721 | | 494 | | 657 | | - | | 657 | | | | |
| Gross/Weapon System Cost (\$ in Millions) | | | | 313.244 | | 256.462 | | 199.295 | | 213.397 | | - | | 213.397 | | | | |
| Less PY Advance Procurement (\$ in Millions) | | | | 64.456 | | - | | - | | - | | - | | - | | | | |
| Net Procurement (P-1) (\$ in Millions) | | | | 248.788 | | 256.462 | | 199.295 | | 213.397 | | - | | 213.397 | | | | |
| Plus CY Advance Procurement (\$ in Millions) | | | | 64.456 | | - | | - | | - | | - | | - | | | | |
| Total Obligation Authority (\$ in Millions) | | | | 313.244 | | 256.462 | | 199.295 | | 213.397 | | - | | 213.397 | | | | |
| (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) | | | | 246.261 | | 355.703 | | 403.431 | | 324.805 | | - | | 324.805 | | | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| All Up Rounds (AUR)(†) | 175.361 | 1,272 | 223.059 | 223.569 | 721 | 161.193 | 201.368 | 494 | 99.476 | 203.965 | 657 | 134.005 | - | - | - | 203.965 | 657 | 134.005 |
| Engineering Services | - | - | 17.631 | - | - | 19.016 | - | - | 17.235 | - | - | 20.419 | - | - | - | - | - | 20.419 |
| Guidance Section Long Lead Items | - | - | 38.600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acceptance Testing | - | - | - | - | - | 1.224 | - | - | 1.915 | - | - | 1.953 | - | - | - | - | - | 1.953 |
| Subtotal: Recurring Cost | - | - | 279.290 | - | - | 181.433 | - | - | 118.626 | - | - | 156.377 | - | - | - | - | - | 156.377 |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| HELLFIRE Backend Long Lead Items | - | - | 25.856 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tooling and Test Equipment | - | - | - | - | - | 6.785 | - | - | 7.334 | - | - | 5.284 | - | - | - | - | - | 5.284 |
| Subtotal: Non Recurring Cost | - | - | 25.856 | - | - | 6.785 | - | - | 7.334 | - | - | 5.284 | - | - | - | - | - | 5.284 |
| Subtotal: Flyaway Cost | - | - | 305.146 | - | - | 188.218 | - | - | 125.960 | - | - | 161.661 | - | - | - | - | - | 161.661 |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | 0.890 | - | - | 0.875 | - | - | 0.893 | - | - | - | - | - | 0.893 |
| Subtotal: Support - Fielding Cost | - | - | - | - | - | 0.890 | - | - | 0.875 | - | - | 0.893 | - | - | - | - | - | 0.893 |
| Support - Initial Spares and Repair Parts Cost | | | | | | | | | | | | | | | | | | |

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|--|---------------------|----------------------------|----------------------|---------------------|---------------|---|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | | | P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. | | | | | | | | | | | | | | | | | | |
| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Initial Spares and Repair Parts | - | - | - | - | - | - | - | - | 1.926 | - | - | 1.206 | - | - | - | - | - | 1.206 |
| Subtotal: Support - Initial Spares and Repair Parts Cost | - | - | - | - | - | - | - | - | 1.926 | - | - | 1.206 | - | - | - | - | - | 1.206 |
| Support - Non-Recurring Support Cost | | | | | | | | | | | | | | | | | | |
| Facilitization | - | - | - | - | - | 20.438 | - | - | 19.985 | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Non-Recurring Support Cost | - | - | - | - | - | 20.438 | - | - | 19.985 | - | - | - | - | - | - | - | - | - |
| Support - Production Engineering Cost | | | | | | | | | | | | | | | | | | |
| Production Engineering | - | - | 4.621 | - | - | 28.063 | - | - | 21.826 | - | - | 19.695 | - | - | - | - | - | 19.695 |
| Subtotal: Support - Production Engineering Cost | - | - | 4.621 | - | - | 28.063 | - | - | 21.826 | - | - | 19.695 | - | - | - | - | - | 19.695 |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 3.477 | - | - | 14.938 | - | - | 12.055 | - | - | 13.932 | - | - | - | - | - | 13.932 |
| Subtotal: Support - Program Management Cost | - | - | 3.477 | - | - | 14.938 | - | - | 12.055 | - | - | 13.932 | - | - | - | - | - | 13.932 |
| Support - System Test and Evaluation Cost | | | | | | | | | | | | | | | | | | |
| Test and Evaluation Support | - | - | - | - | - | 3.915 | - | - | 16.668 | - | - | 16.010 | - | - | - | - | - | 16.010 |
| Subtotal: Support - System Test and Evaluation Cost | - | - | - | - | - | 3.915 | - | - | 16.668 | - | - | 16.010 | - | - | - | - | - | 16.010 |
| Gross/Weapon System Cost | 246.261 | 1,272 | 313.244 | 355.703 | 721 | 256.462 | 403.431 | 494 | 199.295 | 324.805 | 657 | 213.397 | - | - | - | 324.805 | 657 | 213.397 |
| | | | | | | | | | | | | | | | | | | |
| Secondary Distribution | | | | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | |
| Army | | Quantity | | | | 721 | | | 494 | | | 657 | | - | | 657 | | |
| | | Total Obligation Authority | | | | 256.462 | | | 199.295 | | | 213.397 | | - | | 213.397 | | |
| Total: Secondary Distribution | | Quantity | | | | 721 | | | 494 | | | 657 | | - | | 657 | | |
| | | Total Obligation Authority | | | | 256.462 | | | 199.295 | | | 213.397 | | - | | 213.397 | | |
| (†) 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: 2032A / 02 / 20 | | | P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM) | | | |
| Cost Elements | O C O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty <i>(Each)</i> | Unit Cost <i>(\$ K)</i> | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| All Up Rounds (AUR) ^(†) | | 2017 | Lockheed Martin / Orlando | C / FPIF | Redstone Arsenal, AL | Aug 2018 | Dec 2018 | 373 | 165.980 | Y | | Feb 2015 |
| All Up Rounds (AUR) ^(†) | | 2018 | Lockheed Martin / Orlando | C / FPIF | Redstone Arsenal, AL | Sep 2018 | Dec 2019 | 899 | 170.284 | Y | | Feb 2015 |
| All Up Rounds (AUR) ^(†) | | 2019 | Lockheed Martin / Orlando | C / FPIF | Redstone Arsenal, AL | Nov 2019 | Dec 2021 | 721 | 223.569 | Y | | Aug 2018 |
| All Up Rounds (AUR) ^(†) | | 2020 | Lockheed Martin / Orlando | SS / FPIF | Redstone Arsenal, AL | Nov 2020 | Oct 2022 | 494 | 201.368 | Y | | Jun 2019 |
| All Up Rounds (AUR) ^(†) | | 2021 | Lockheed Martin / Orlando | SS / FPIF | Redstone Arsenal, AL | May 2021 | Oct 2023 | 657 | 203.965 | Y | | Jun 2019 |

^(†) 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: 2032A / 02 / 20 | | | | | | | | | | P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | | | | | Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2018 | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | B A L A N C E | | | | | | |
| O C O | M F R # | FY | SERVICE | PROC QTY | ACCEP T P R I O R T O 1 O C T 2 0 1 7 | BAL D U E A S O F 1 O C T | | | | Calendar Year 2018 | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | | J U N | J U L | A U G | S E P | | |
| All Up Rounds (AUR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 373 | 0 | 373 | | | | | | | | | | | A - | - | - | - | 13 | 19 | - | 96 | 32 | 30 | 30 | 30 | 30 | 30 | 31 | 62 | |
| | 1 | 2017 | NAVY (‡) | 104 | 0 | 104 | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 104 |
| | 1 | 2017 | Total | 477 | 0 | 477 | | | | | | | | | | | - | - | - | - | 13 | 19 | - | 96 | 32 | 30 | 30 | 30 | 30 | 30 | 31 | 166 | |
| | 1 | 2018 | ARMY | 899 | 0 | 899 | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 899 | |
| | 1 | 2019 | ARMY | 721 | 0 | 721 | | | | | | | | | | | | | | | | | | | | | | | | | | | 721 |
| | 1 | 2019 | NAVY (‡) | 75 | 0 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | 75 |
| | 1 | 2019 | Total | 796 | 0 | 796 | | | | | | | | | | | | | | | | | | | | | | | | | | | 796 |
| | 1 | 2020 | AF (‡) | 60 | 0 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | 60 |
| | 1 | 2020 | ARMY | 494 | 0 | 494 | | | | | | | | | | | | | | | | | | | | | | | | | | | 494 |
| | 1 | 2020 | NAVY (‡) | 320 | 0 | 320 | | | | | | | | | | | | | | | | | | | | | | | | | | | 320 |
| | 1 | 2020 | Total | 874 | 0 | 874 | | | | | | | | | | | | | | | | | | | | | | | | | | | 874 |
| | 1 | 2021 | ARMY | 657 | 0 | 657 | | | | | | | | | | | | | | | | | | | | | | | | | | | 657 |
| | 1 | 2021 | NAVY (‡) | 203 | 0 | 203 | | | | | | | | | | | | | | | | | | | | | | | | | | | 203 |
| | 1 | 2021 | Total | 860 | 0 | 860 | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | 860 | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | |
|---|-------|------|---------------------|----------|----------------------------|---------------------|------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|------------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|-----|---|-----|----|-----|-----|-----|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | | | | | | | P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | | | | | Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2020 | | | | | | | | | | | Fiscal Year 2021 | | | | | | | | | | | BALANCE | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | | | | Calendar Year 2020 | | | | | | | | | | Calendar Year 2021 | | | | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | | AUG | SEP | | | | | | |
| All Up Rounds (AUR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 373 | 311 | 62 | 31 | 31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | | |
| | 1 | 2017 | NAVY ^(‡) | 104 | 0 | 104 | - | - | - | 50 | 48 | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | - | - | - | - | - | - | 0 | | | | | | |
| | 1 | 2017 | Total | 477 | 311 | 166 | 31 | 31 | - | 50 | 48 | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | - | - | - | - | - | - | 0 | | | | | | |
| | 1 | 2018 | ARMY | 899 | 0 | 899 | - | - | 50 | - | 2 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 67 | | | | | | |
| | 1 | 2019 | ARMY | 721 | 0 | 721 | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 721 | | | | | | |
| | 1 | 2019 | NAVY ^(‡) | 75 | 0 | 75 | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 75 | | | | | | |
| | 1 | 2019 | Total | 796 | 0 | 796 | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 796 | | | | | | |
| | 1 | 2020 | AF ^(‡) | 60 | 0 | 60 | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | 60 | | | |
| | 1 | 2020 | ARMY | 494 | 0 | 494 | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | 494 | | |
| | 1 | 2020 | NAVY ^(‡) | 320 | 0 | 320 | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 320 | |
| | 1 | 2020 | Total | 874 | 0 | 874 | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 874 |
| | 1 | 2021 | ARMY | 657 | 0 | 657 | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 657 | | | | |
| | 1 | 2021 | NAVY ^(‡) | 203 | 0 | 203 | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 203 | | | | |
| | 1 | 2021 | Total | 860 | 0 | 860 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | 860 | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | |
|---|-------|------|---------------------|----------|----------------------------|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|---------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | | | | P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | | | | | | | | Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | | | | | | | | |
| Cost Elements <i>(Units in Each)</i> | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | | BALANCE |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2021 | BAL DUE AS OF 1 OCT | Calendar Year 2022 | | | | | | | | | | | | | Calendar Year 2023 | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |
| All Up Rounds (AUR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 373 | 373 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | NAVY ^(‡) | 104 | 104 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | Total | 477 | 477 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 1 | 2018 | ARMY | 899 | 832 | 67 | 33 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2019 | ARMY | 721 | 0 | 721 | - | - | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 61 | | | | | | | | | | | | | | | 0 |
| | 1 | 2019 | NAVY ^(‡) | 75 | 0 | 75 | - | - | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | - | - | | | | | | | | | | | | | | | 0 |
| | 1 | 2019 | Total | 796 | 0 | 796 | - | - | 68 | 67 | 68 | 67 | 68 | 67 | 68 | 67 | 60 | 61 | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 1 | 2020 | AF ^(‡) | 60 | 0 | 60 | - | - | - | - | - | - | - | - | - | - | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | | | |
| | 1 | 2020 | ARMY | 494 | 0 | 494 | - | - | - | - | - | - | - | - | - | - | 42 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 42 | 0 | | | |
| | 1 | 2020 | NAVY ^(‡) | 320 | 0 | 320 | - | - | - | - | - | - | - | - | - | - | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 31 | 0 | | | |
| | 1 | 2020 | Total | 874 | 0 | 874 | - | - | - | - | - | - | - | - | - | - | 74 | 73 | 73 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 78 | 0 | | | |
| | 1 | 2021 | ARMY | 657 | 0 | 657 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 657 | | | |
| | 1 | 2021 | NAVY ^(‡) | 203 | 0 | 203 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 203 | | | |
| | 1 | 2021 | Total | 860 | 0 | 860 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 860 | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | |
|---|-------|------|---------------------|----------|----------------------------|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|---|---------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | | | | P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | | | | | | | | Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | | | | | | | | | | |
| Cost Elements <i>(Units in Each)</i> | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | | Fiscal Year 2025 | | | | | | | | | | | | | BALANCE |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2023 | BAL DUE AS OF 1 OCT | Calendar Year 2024 | | | | | | | | | | | | | Calendar Year 2025 | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| All Up Rounds (AUR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 373 | 373 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | NAVY ^(‡) | 104 | 104 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | Total | 477 | 477 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 1 | 2018 | ARMY | 899 | 899 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2019 | ARMY | 721 | 721 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2019 | NAVY ^(‡) | 75 | 75 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2019 | Total | 796 | 796 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 1 | 2020 | AF ^(‡) | 60 | 60 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2020 | ARMY | 494 | 494 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2020 | NAVY ^(‡) | 320 | 320 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2020 | Total | 874 | 874 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 1 | 2021 | ARMY | 657 | 0 | 657 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 52 | | | | | | | | | | | | | | | 0 | |
| | 1 | 2021 | NAVY ^(‡) | 203 | 0 | 203 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 16 | | | | | | | | | | | | | | | 0 | |
| | 1 | 2021 | Total | 860 | 0 | 860 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 68 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | P-1 Line Item Number / Title: 2605C70302 / Joint Air-to-Ground MSLS (JAGM) | | | | Item Number / Title [DODIC]: C70302 / Joint Air-to-Ground MSLS (JAGM) | | | |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
|-----------------|---------------------------------|--------------------------------|----------------|--------------|-------------------------------|--------------------|----------------------|----------------------|-----------------------|--------------------|----------------------|----------------------|
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | Initial | | | | Reorder | | | |
| | | | | | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Lockheed Martin - Orlando | 600 | 1,200 | 2,400 | 5 | 12 | 24 | 36 | 5 | 12 | 24 | 36 |

Remarks:

FY 2020 total quantities includes Navy and Air Force purchases. FY 2021 total quantities includes Navy purchases.

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

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

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

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System | | | | | | | P-1 Line Item Number / Title: 2607C71300 / Long Range Precision Munition | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: N/A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | - | - | - | 45.307 | - | 45.307 | - | - | - | - | - | 45.307 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | - | - | - | 45.307 | - | 45.307 | - | - | - | - | - | 45.307 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | - | - | - | 45.307 | - | 45.307 | - | - | - | - | - | 45.307 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Description: | | | | | | | | | | | | |
| The LRPM will provide Army Aviation with improved and longer range weapons, sub-systems, and munitions that can rapidly respond in a combat environment improving the survivability of the warfighters and weapon systems in an anti-access/area denial (A2/AD) and positioning, navigation, and timing (PNT) denied environment. The ability to interoperate and coordinate with other weapon systems and munitions at long ranges and adapt to changing threats is a core concept of the Army Aviation Weapons Sub-Systems and Munitions (AAWSSM) program. | | | | | | | | | | | | |
| The Spike Non-line of Sight (NLOS) directed requirement will federate an existing production system to the Apache AH-64 as an interim solution that will provide longer stand-off ranges in an anti-access/area denial (A2/AD) environment until a more effective integrated Army Aviation Weapons Sub-Systems and Munitions (AAWSSM) LRPM solution can be developed. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | - | - | 45.307 | - | 45.307 | - | - | - | - | - | |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | - | - | 45.307 | - | 45.307 | - | - | - | - | - | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System | | | | | | P-1 Line Item Number / Title: 2607C71300 / Long Range Precision Munition | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: N/A | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | |
| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C71304 / LRPM-INTERIM | | | | - / - | - / - | - / - | - / 45.307 | - / - | - / 45.307 |
| P-40 | Total Gross/Weapon System Cost | | | | - / - | - / - | - / - | - / 45.307 | - / - | - / 45.307 |
| <p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p> | | | | | | | | | | |
| <p>Justification: FY 2021 procurement dollars in the amount of \$45.307 million supports the Army Directed Requirement, Spike Non-Line of Sight (NLOS), for Army AH-64D/E: procurement of 205 missiles, Project Management Cost, and Engineering Services funding.</p> <p>The Army intends to convert any price advantage created through contract negotiations and/or other service procurement to increase the Army procurement of Spike Non-Line of Sight (SPIKE NLOS) Missiles.</p> <p>Long Range Precision Munition is a new start in FY2021.</p> | | | | | | | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | Date: February 2020 | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | | | | | P-1 Line Item Number / Title: 2607C71300 / Long Range Precision Munition | | | | | | Item Number / Title [DODIC]: C71304 / LRPM-INTERIM | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | 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) | | | | - | | - | | - | | - | | - | | - | | | | |
| Gross/Weapon System Cost (\$ in Millions) | | | | - | | - | | - | | 45.307 | | - | | 45.307 | | | | |
| Less PY Advance Procurement (\$ in Millions) | | | | - | | - | | - | | - | | - | | - | | | | |
| Net Procurement (P-1) (\$ in Millions) | | | | - | | - | | - | | 45.307 | | - | | 45.307 | | | | |
| Plus CY Advance Procurement (\$ in Millions) | | | | - | | - | | - | | - | | - | | - | | | | |
| Total Obligation Authority (\$ in Millions) | | | | - | | - | | - | | 45.307 | | - | | 45.307 | | | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | |
| Initial Spares (\$ in Millions) | | | | - | | - | | - | | - | | - | | - | | | | |
| Gross/Weapon System Unit Cost (\$ in Thousands) | | | | - | | - | | - | | - | | - | | - | | | | |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. | | | | | | | | | | | | | | | | | | |
| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| All Up Rounds | - | - | - | - | - | - | - | - | - | 210.000 | 205 | 43.050 | - | - | - | 210.000 | 205 | 43.050 |
| Recurring Engineering | - | - | - | - | - | - | - | - | - | - | - | 0.548 | - | - | - | - | - | 0.548 |
| Acceptance Testing | - | - | - | - | - | - | - | - | - | - | - | 0.026 | - | - | - | - | - | 0.026 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 43.624 | - | - | - | - | - | 43.624 |
| Subtotal: Flyaway Cost | - | - | - | - | - | - | - | - | - | - | - | 43.624 | - | - | - | - | - | 43.624 |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | - | - | - | - | - | - | 0.343 | - | - | - | - | - | 0.343 |
| Subtotal: Support - Fielding Cost | - | - | - | - | - | - | - | - | - | - | - | 0.343 | - | - | - | - | - | 0.343 |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | - | - | - | - | - | - | - | - | - | 1.340 | - | - | - | - | - | 1.340 |
| Subtotal: Support - Program Management Cost | - | - | - | - | - | - | - | - | - | - | - | 1.340 | - | - | - | - | - | 1.340 |
| Gross/Weapon System Cost | - | - | - | - | - | - | - | - | - | - | - | 45.307 | - | - | - | - | - | 45.307 |
| | | | | | | | | | | | | | | | | | | |
| Secondary Distribution | | | | | | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | | |
| Army | | Quantity | | | | | - | | - | | - | | - | | - | | | |
| | | Total Obligation Authority | | | | | - | | - | | 45.307 | | - | | 45.307 | | | |
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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 20 | | P-1 Line Item Number / Title: 2607C71300 / Long Range Precision Munition | | | Item Number / Title [DODIC]: C71304 / LRPM-INTERIM | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Total: | Quantity | - | - | - | - | - |
| Secondary Distribution | Total Obligation Authority | - | - | 45.307 | - | 45.307 |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): A | | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0604611A | | | | |
| Line Item MDAP/MAIS Code: 280 | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | 31,400 | 1,247 | 697 | 773 | - | 773 | 520 | 752 | 1,157 | 1,193 | - | 37,739 |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 5,110.934 | 245.485 | 142.794 | 190.325 | - | 190.325 | 137.638 | 167.949 | 229.197 | 238.660 | - | 6,462.982 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | 100.622 | - | - | - | - | - | - | - | - | - | - | 100.622 |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 5,010.312 | 245.485 | 142.794 | 190.325 | - | 190.325 | 137.638 | 167.949 | 229.197 | 238.660 | - | 6,362.360 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | 100.622 | - | - | - | - | - | - | - | - | - | - | 100.622 |
| Total Obligation Authority (<i>\$ in Millions</i>) | 5,110.934 | 245.485 | 142.794 | 190.325 | - | 190.325 | 137.638 | 167.949 | 229.197 | 238.660 | - | 6,462.982 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 162.769 | 196.860 | 204.869 | 246.216 | - | 246.216 | 264.688 | 223.336 | 198.096 | 200.050 | - | 171.255 |
| Description: Javelin provides the United States Army and United States Marine Corps (USMC) a man-portable, fire-and-forget, medium-range missile with enhanced situational awareness and precision direct-fire effects to defeat armored vehicles, fortifications, and soft targets in a range of military operations. Javelin has a high kill rate against a variety of targets at extended ranges under day/night, battlefield obscurants, adverse weather and multiple counter-measure conditions. The system's soft launch feature permits firing from a fighting position or an enclosure. Javelin uses a modular design to allow the system to evolve to meet changing threats and requirements via both software and hardware upgrades. The system consists of a reusable Command Launch Unit (CLU) with a built-in-test (BIT), and a modular missile encased in a disposable launch tube assembly. The system also includes training devices for tactical training and classroom training. Javelin's fire-and-forget technology allows the gunner to fire and immediately take cover, to move to another fighting position, or to reload. The Javelin provides enhanced lethality through the use of a tandem multi-purpose warhead which will defeat all known armor threats. It is effective against both stationary and moving targets. This system also provides defensive capability against attacking/hovering helicopters. In current conflicts the CLU is being used as a stand-alone surveillance and target acquisition asset. The Army is the lead for this joint program with the USMC. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | 1,247 | 697 | 773 | - | 773 | 520 | 752 | 1,157 | 1,193 | | |
| | Total Obligation Authority | 245.485 | 142.794 | 190.325 | - | 190.325 | 137.638 | 167.949 | 229.197 | 238.660 | | |
| Total: Secondary Distribution | Quantity | 1,247 | 697 | 773 | - | 773 | 520 | 752 | 1,157 | 1,193 | | |
| | Total Obligation Authority | 245.485 | 142.794 | 190.325 | - | 190.325 | 137.638 | 167.949 | 229.197 | 238.660 | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): A | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0604611A | | | | |
| Line Item MDAP/MAIS Code: 280 | | | | | | | | | | |
| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | H06102 / JAVELIN (AAWS-M) | P-5a, P-21 | | | 31,400 / 5,110.934 | 1,112 / 222.985 | 697 / 142.794 | 763 / 165.355 | - / - | 763 / 165.355 |
| P-5 | H06103 / Javelin Lightweight Command Launch Unit (CLU) | P-5a | | | - / - | 135 / 22.500 | - / - | 10 / 24.970 | - / - | 10 / 24.970 |
| P-40 | Total Gross/Weapon System Cost | | | | 31,400 / 5,110.934 | 1,247 / 245.485 | 697 / 142.794 | 773 / 190.325 | - / - | 773 / 190.325 |
| <p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p> | | | | | | | | | | |
| <p>Justification: H06102 FY2021 Base procurement dollars in the amount of \$165.355 million supports the production of 763 missiles and the non-recurring expenses for the G-model production cut-in. H06103 FY2021 Base procurement dollars in the amount of \$24.970 million supports initial production facilitization and low-rate initial production of 10 Lightweight CLUs.</p> <p>The estimated missile unit prices for FY21 and prior are based on combined United States Army, other services, and FMS procurements of 850 missile per year.</p> <p>The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to increase the Army procurement of Javelin missiles and/or Lightweight CLUs, and/or address obsolescence, modernization, cost reduction, and production initiatives.</p> <p>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.</p> | | | | | | | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | Date: February 2020 | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | | | | | | Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M) | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | 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) | | | | 31,400 | | 1,112 | | 697 | | 763 | | - | | 763 | | | | |
| Gross/Weapon System Cost (\$ in Millions) | | | | 5,110.934 | | 222.985 | | 142.794 | | 165.355 | | - | | 165.355 | | | | |
| Less PY Advance Procurement (\$ in Millions) | | | | 100.622 | | - | | - | | - | | - | | - | | | | |
| Net Procurement (P-1) (\$ in Millions) | | | | 5,010.312 | | 222.985 | | 142.794 | | 165.355 | | - | | 165.355 | | | | |
| Plus CY Advance Procurement (\$ in Millions) | | | | 100.622 | | - | | - | | - | | - | | - | | | | |
| Total Obligation Authority (\$ in Millions) | | | | 5,110.934 | | 222.985 | | 142.794 | | 165.355 | | - | | 165.355 | | | | |
| (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) | | | | 162.769 | | 200.526 | | 204.869 | | 216.717 | | - | | 216.717 | | | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| All Up Round ^(†) | 102.884 | 30,981 | 3,187.449 | 143.794 | 1,161 | 166.945 | 177.565 | 672 | 119.324 | 175.203 | 763 | 133.680 | - | - | - | 175.203 | 763 | 133.680 |
| Engineering Services | - | - | 164.051 | - | - | 7.396 | - | - | 8.121 | - | - | 8.248 | - | - | - | - | - | 8.248 |
| Engineering Change Orders | - | - | 11.604 | - | - | 0.136 | - | - | 1.008 | - | - | 0.101 | - | - | - | - | - | 0.101 |
| Acceptance Testing | - | - | 58.200 | - | - | 1.023 | - | - | 1.043 | - | - | 1.161 | - | - | - | - | - | 1.161 |
| Production Engineering | - | - | 113.312 | - | - | 4.336 | - | - | 4.837 | - | - | 4.934 | - | - | - | - | - | 4.934 |
| Publications/Technical Data | - | - | 2.760 | - | - | 0.076 | - | - | 0.078 | - | - | 0.079 | - | - | - | - | - | 0.079 |
| CLU Retrofits | 160.923 | 520 | 83.680 | - | - | 39.149 | 170.000 | 25 | 4.250 | - | - | - | - | - | - | - | - | - |
| Advanced Procurement | - | - | 100.622 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 3,721.678 | - | - | 219.061 | - | - | 138.661 | - | - | 148.203 | - | - | - | - | - | 148.203 |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| IM Compliance | - | - | - | - | - | - | - | - | - | - | - | 3.172 | - | - | - | - | - | 3.172 |
| G-Model Production Facilitization | - | - | - | - | - | - | - | - | - | - | - | 9.908 | - | - | - | - | - | 9.908 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 13.080 | - | - | - | - | - | 13.080 |
| Subtotal: Flyaway Cost | - | - | 3,721.678 | - | - | 219.061 | - | - | 138.661 | - | - | 161.283 | - | - | - | - | - | 161.283 |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | | | Date: February 2020 | | | | | | | |
|--|---------------------|-----------------------------------|----------------------|---------------------|---------------|----------------------|--|---------------|----------------------|------------------------|---------------|----------------------|---------------------|--|----------------------|---------------------|---------------|----------------------|----------------------|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | | | | | | | Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M) | | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | | | | |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. | | | | | | | | | | | | | | | | | | | | | |
| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | | | | |
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | | | |
| Government Management | - | - | 1,389.256 | - | - | 3.924 | - | - | 4.133 | - | - | 4.072 | - | - | - | - | - | 4.072 | | | |
| <i>Subtotal: Support - Program Management Cost</i> | - | - | 1,389.256 | - | - | 3.924 | - | - | 4.133 | - | - | 4.072 | - | - | - | - | - | 4.072 | | | |
| Gross/Weapon System Cost | 162.769 | 31,400 | 5,110.934 | 200.526 | 1,112 | 222.985 | 204.869 | 697 | 142.794 | 216.717 | 763 | 165.355 | - | - | - | 216.717 | 763 | 165.355 | | | |
| Remarks: The estimated missile unit prices for FY21 and prior are based on combined United States Army, other services, and FMS procurements of 850 missile per year. FY19 CLU Retrofit funds were used to execute a lifetime buy of materials no longer in production. | | | | | | | | | | | | | | | | | | | | | |
| Secondary Distribution | | | | | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
| Army | | Quantity | | | | | 1,112 | | | 697 | | | 763 | | | - | | | 763 | | |
| | | Total Obligation Authority | | | | | 222.985 | | | 142.794 | | | 165.355 | | | - | | | 165.355 | | |
| Total: Secondary Distribution | | Quantity | | | | | 1,112 | | | 697 | | | 763 | | | - | | | 763 | | |
| | | Total Obligation Authority | | | | | 222.985 | | | 142.794 | | | 165.355 | | | - | | | 165.355 | | |
| (t) 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: 2032A / 02 / 30 | | | | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | | | | Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M) | | | | |

| Cost Elements | O C 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 |
|-----------------------------|-------------|------|--|--------------------------------------|--------------------------------|---------------|------------------------------|---------------|---------------------|------------------------|-------------------------------|-------------------|
| All Up Round ^(†) | | 2019 | JJV All Up Round / Tucson AZ Orlando FL | SS / FFP | AMCOM, Redstone Arsenal, AL | Sep 2019 | Jul 2021 | 1,161 | 143.794 | Y | | Aug 2018 |
| All Up Round ^(†) | | 2020 | JJV All Up Round / Tucson AZ Orlando FL | SS / FFP | AMCOM, Redstone Arsenal, AL | Apr 2020 | Feb 2022 | 672 | 177.565 | Y | | Aug 2018 |
| All Up Round ^(†) | | 2021 | JJV All Up Round / Tucson AZ Orlando FL | SS / FFP | AMCOM, Redstone Arsenal, AL | Apr 2021 | Feb 2023 | 763 | 175.203 | Y | | Oct 2019 |

^(†) indicates the presence of a P-21

Remarks:

JJV: Javelin Joint Venture (includes Raytheon in Tucson, AZ and Lockheed Martin in Orlando, FL)

SS: Sole Source

FFP: Firm Fixed Price

AMCOM: Aviation and Missile Command

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | |
|---|------------------|------|------------|-------------|--|------------------------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|---|---|-----|-------|---|-----|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | | | | | | | | | | Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M) | | | | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2019 | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | | B A L A N C E | | | | | | | |
| O C C O | M F R # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | Calendar Year 2019 | | | | | | | | | | Calendar Year 2020 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | | S E P | | | | | | |
| All Up Round | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 30981 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2019 | ARMY | 1,161 | 0 | 1,161 | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,161 | | |
| | 1 | 2019 | MC (‡) | 11 | 0 | 11 | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | | |
| | 1 | 2019 | NAVSEA (‡) | 13 | 0 | 13 | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | | |
| | 1 | 2019 | Total | 1,185 | 0 | 1,185 | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,185 | | |
| | 1 | 2020 | ARMY | 672 | 0 | 672 | | | | | | | | | | | | | | A - | | | | | | | | | | - | - | - | - | - | - | - | 672 |
| | 1 | 2020 | FMS (‡) | 81 | 0 | 81 | | | | | | | | | | | | | | A - | | | | | | | | | | - | - | - | - | - | - | - | 81 |
| | 1 | 2020 | MC (‡) | 97 | 0 | 97 | | | | | | | | | | | | | | A - | | | | | | | | | | - | - | - | - | - | - | - | 97 |
| | 1 | 2020 | Total | 850 | 0 | 850 | | | | | | | | | | | | | | - | | | | | | | | | | - | - | - | - | - | - | - | 850 |
| | 1 | 2021 | ARMY | 763 | 0 | 763 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 763 | | | |
| | 1 | 2021 | MC (‡) | 95 | 0 | 95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 95 | | | |
| | 1 | 2021 | Total | 858 | 0 | 858 | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | 858 | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | |
|---|------|------|------------|----------|----------------------------|---------------------|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | | | | | | | | | | | | | Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M) | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | | BALANCE |
| OCCO | MFR# | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | Calendar Year 2021 | | | | | | | | | | | | | Calendar Year 2022 | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |
| All Up Round | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 30981 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2019 | ARMY | 1,161 | 0 | 1,161 | - | - | - | - | - | - | - | - | - | 166 | 166 | 166 | 166 | 166 | 166 | 165 | - | - | | | | | | | | | 0 |
| | 1 | 2019 | MC (‡) | 11 | 0 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | | | | | | | | | 0 |
| | 1 | 2019 | NAVSEA (‡) | 13 | 0 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | 0 | | | | | | | | | |
| | 1 | 2019 | Total | 1,185 | 0 | 1,185 | - | - | - | - | - | - | - | - | - | 166 | 166 | 166 | 166 | 166 | 166 | 165 | 13 | 11 | - | - | - | - | - | - | 0 | | |
| | 1 | 2020 | ARMY | 672 | 0 | 672 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 56 | 56 | 71 | 33 | 12 | 64 | 64 | 64 | 252 | | |
| | 1 | 2020 | FMS (‡) | 81 | 0 | 81 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 40 | 41 | - | - | - | - | - | - | 0 | | |
| | 1 | 2020 | MC (‡) | 97 | 0 | 97 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 38 | 59 | - | - | - | 0 | | |
| | 1 | 2020 | Total | 850 | 0 | 850 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 96 | 97 | 71 | 71 | 71 | 64 | 64 | 64 | 252 | | |
| | 1 | 2021 | ARMY | 763 | 0 | 763 | A - | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 763 | | |
| | 1 | 2021 | MC (‡) | 95 | 0 | 95 | A - | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 95 | | |
| | 1 | 2021 | Total | 858 | 0 | 858 | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 858 | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | |
|---|-------|------|------------|----------|----------------------------|---------------------|--------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---------|--|---|--|--|--|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | | | | | | | | | | | Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M) | | | | | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | | BALANCE | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | Calendar Year 2023 | | | | | | | | | | | | | Calendar Year 2024 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| All Up Round | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 30981 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2019 | ARMY | 1,161 | 1,161 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | |
| | 1 | 2019 | MC (‡) | 11 | 11 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | |
| | 1 | 2019 | NAVSEA (‡) | 13 | 13 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | |
| | 1 | 2019 | Total | 1,185 | 1,185 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | | | |
| | 1 | 2020 | ARMY | 672 | 420 | 252 | 63 | 63 | 63 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2020 | FMS (‡) | 81 | 81 | 0 | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2020 | MC (‡) | 97 | 97 | 0 | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2020 | Total | 850 | 598 | 252 | 63 | 63 | 63 | 63 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | | | | |
| | 1 | 2021 | ARMY | 763 | 0 | 763 | - | - | - | - | 72 | 72 | 72 | 22 | 27 | 72 | 72 | 72 | 72 | 72 | 72 | 66 | | | | | | | | | 0 | | | | | | | | |
| | 1 | 2021 | MC (‡) | 95 | 0 | 95 | - | - | - | - | - | - | - | 50 | 45 | - | - | - | - | - | - | 0 | | | | | | | | | | | | | | | | | |
| | 1 | 2021 | Total | 858 | 0 | 858 | - | - | - | - | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 66 | - | - | - | - | - | - | - | - | - | 0 | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | Date: February 2020 | | | |
|---|--|--------------------------------|----------------|--------------|---|--------------------|----------------------|----------------------|---|--------------------|----------------------|----------------------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | | | | Item Number / Title [DODIC]: H06102 / JAVELIN (AAWS-M) | | | |
| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | Initial | | | | Reorder | | | |
| | | | | | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | JJV All Up Round - Tucson AZ Orlando FL | 850 | 2,100 | 6,480 | 11 | 3 | 23 | 26 | 6 | 3 | 29 | 32 |

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

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

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

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|--|---------------------|---------------|----------------------|---------------------|---------------|---|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | Date: February 2020 | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | | | | | | Item Number / Title [DODIC]: H06103 / Javelin Lightweight Command Launch Unit (CLU) | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | |
| Resource Summary | | | | Prior Years | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | | | |
| Procurement Quantity <i>(Units in Each)</i> | | | | - | | 135 | | - | | 10 | | - | | 10 | | | | |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | | | | - | | 22.500 | | - | | 24.970 | | - | | 24.970 | | | | |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | | | | - | | 22.500 | | - | | 24.970 | | - | | 24.970 | | | | |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Total Obligation Authority <i>(\$ in Millions)</i> | | | | - | | 22.500 | | - | | 24.970 | | - | | 24.970 | | | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | | | | - | | 166.667 | | - | | 2,497.000 | | - | | 2,497.000 | | | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Light Weight CLU Production ^(†) | - | - | - | - | - | - | - | - | - | 418.000 | 10 | 4.180 | - | - | - | 418.000 | 10 | 4.180 |
| Engineering Services | - | - | - | - | - | - | - | - | - | - | - | 1.377 | - | - | - | - | - | 1.377 |
| Engineering Change Orders | - | - | - | - | - | - | - | - | - | - | - | 0.004 | - | - | - | - | - | 0.004 |
| Acceptance Testing | - | - | - | - | - | - | - | - | - | - | - | 0.400 | - | - | - | - | - | 0.400 |
| CLU Retrofits (Block 0 to Block 1) | - | - | - | - | - | 22.500 | - | - | - | - | - | - | - | - | - | - | - | - |
| Fielding | - | - | - | - | - | - | - | - | - | - | - | 0.173 | - | - | - | - | - | 0.173 |
| Training Devices | - | - | - | - | - | - | - | - | - | - | - | 0.871 | - | - | - | - | - | 0.871 |
| Subtotal: Recurring Cost | - | - | - | - | - | 22.500 | - | - | - | - | - | 7.005 | - | - | - | - | - | 7.005 |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Initial Production Facilitization | - | - | - | - | - | - | - | - | - | - | - | 17.965 | - | - | - | - | - | 17.965 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 17.965 | - | - | - | - | - | 17.965 |
| Subtotal: Flyaway Cost | - | - | - | - | - | 22.500 | - | - | - | - | - | 24.970 | - | - | - | - | - | 24.970 |
| Gross/Weapon System Cost | - | - | - | 166.667 | 135 | 22.500 | - | - | - | 2,497.000 | 10 | 24.970 | - | - | - | 2,497.000 | 10 | 24.970 |
| Remarks: | | | | | | | | | | | | | | | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | Date: February 2020 |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | Item Number / Title [DODIC]: H06103 / Javelin Lightweight Command Launch Unit (CLU) |

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

H06103 FY2021 Base procurement dollars in the amount of \$24.970 million supports initial production facilitization and low-rate initial production of 10 Lightweight CLUs.

Lightweight CLU unit prices will be reduced significantly once full-rate production is achieved, and will be further reduced by combining Army procurement quantities with other U.S. services and foreign military sales quantities.

FY19 CLU Retrofit funds were used to execute a lifetime buy of materials no longer in production.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|--|-----------------------------------|---------------|----------|-----------------|----------------|------------------|
| Army | Quantity | 135 | - | 10 | - | 10 |
| | Total Obligation Authority | 22.500 | - | 24.970 | - | 24.970 |
| Total: Secondary Distribution | Quantity | 135 | - | 10 | - | 10 |
| | Total Obligation Authority | 22.500 | - | 24.970 | - | 24.970 |

(t) 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: 2032A / 02 / 30 | | | | P-1 Line Item Number / Title: 0648CC0007 / Javelin (AAWS-M) System Summary | | | | | | Item Number / Title [DODIC]: H06103 / Javelin Lightweight Command Launch Unit (CLU) | | | |
| Cost Elements | O C 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 | |
| Light Weight CLU Production | | 2021 | JJV Lightweight CLU / Tucson AZ Orlando FL | SS / FFP | AMCOM, Redstone Arsenal AL | Jun 2021 | Jun 2023 | 10 | 418.000 | N | | Oct 2019 | |

Remarks:

JJV: Javelin Joint Venture (includes Raytheon in Tucson, AZ and Lockheed Martin in Orlando, FL)

SS: Sole Source

FFP: Firm Fixed Price

AMCOM: Aviation and Missile Command

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|---|-----------------------------------|----------------|----------------|---|--------------------|----------------------|---|--|----------------|----------------------------|--------------------|------------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: N/A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity <i>(Units in Each)</i> | 172,869 | 1,228 | 1,460 | 1,405 | - | 1,405 | 774 | 1,453 | 1,729 | 1,657 | - | 182,575 |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | 3,511.267 | 119.062 | 127.907 | 131.574 | - | 131.574 | 90.708 | 153.176 | 178.104 | 176.010 | - | 4,487.808 |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | 187.649 | 19.949 | 19.949 | 10.500 | - | 10.500 | - | - | - | - | - | 238.047 |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | 3,323.618 | 99.113 | 107.958 | 121.074 | - | 121.074 | 90.708 | 153.176 | 178.104 | 176.010 | - | 4,249.761 |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | 207.598 | 19.949 | 10.500 | - | - | - | - | - | - | - | - | 238.047 |
| Total Obligation Authority <i>(\$ in Millions)</i> | 3,531.216 | 119.062 | 118.458 | 121.074 | - | 121.074 | 90.708 | 153.176 | 178.104 | 176.010 | - | 4,487.808 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost <i>(\$ in Thousands)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | 20.312 | 96.956 | 87.608 | 93.647 | - | 93.647 | 117.194 | 105.421 | 103.010 | 106.222 | - | 24.581 |
| Description: TOW missiles (BGM-71 Series) are combat proven munitions that provide heavy anti-armor/assault capability to the Army's Infantry Brigade Combat Teams (IBCT), Stryker Brigade Combat Teams (SBCT) and Armor Brigade Combat Teams (ABCT). TOW missiles continue to be used as the weapon of choice in precision combat engagements. TOW missiles are also the primary heavy anti-armor/ assault missile for the U.S. Marine Corps (USMC) and more than 43 allied nations. Warfighters also employ TOW missiles against buildings and field fortifications, taking advantage of the missile's precision assault capabilities. The TOW Weapon System includes the ITAS launcher, TOW missiles, and associated tactical training aids/devices. The ITAS is a combat proven TOW missile launcher that provides long-range, lethal anti-armor and precision assault fires capability for Active, Reserve, and National Guard component Infantry and SBCT across a spectrum of operational environments. The USMC employs the TOW missile from its ITAS derived M41A7 Saber launchers, ATGM vehicles, and AH-1W Cobra helicopters. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | 1,228 | 1,460 | 1,405 | - | 1,405 | 774 | 1,453 | 1,729 | 1,657 | | |
| | Total Obligation Authority | 119.062 | 118.458 | 121.074 | - | 121.074 | 90.708 | 153.176 | 178.104 | 176.010 | | |
| Total: Secondary Distribution | Quantity | 1,228 | 1,460 | 1,405 | - | 1,405 | 774 | 1,453 | 1,729 | 1,657 | | |
| | Total Obligation Authority | 119.062 | 118.458 | 121.074 | - | 121.074 | 90.708 | 153.176 | 178.104 | 176.010 | | |

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|--|---------------------------------------|--------------------|---|-----------------------|--|---|--|--|--|--|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: N/A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | |
| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C59403 / TOW Family of Missiles | P-5a, P-21 | | | 172,869 / 3,511.267 | 1,228 / 119.062 | 1,460 / 127.907 | 1,405 / 131.574 | - / - | 1,405 / 131.574 |
| P-40 | Total Gross/Weapon System Cost | | | | 172,869 / 3,511.267 | 1,228 / 119.062 | 1,460 / 127.907 | 1,405 / 131.574 | - / - | 1,405 / 131.574 |
| *Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. | | | | | | | | | | |
| Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding. | | | | | | | | | | |
| <p>Justification:</p> <p>FY21 funding in the amount of \$121.074 million procures 905 TOW 2B Aero and 500 TOW Bunker Buster missiles, supports the TOW Missile combat inventory at levels required by the US Army's Total Munitions Requirement for FY 24, and is the final year of the FY17-21 Multi-year contract.</p> <p>The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to increase the Army procurement of TOW missiles and to mitigate safety and obsolescence issues.</p> <p>IAW Section 1815 of the FY08 NDAA, this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.</p> <p>The FY21 Army TOW 2B missile unit price estimate assumes a total of 1,198 USMC and FMS missiles as follows:</p> <p>FY 21 USMC: TOW 2A/2A Practice: 448</p> <p>FY 21 FMS: TOW 2B Aero: 500 TOW 2A: 250</p> | | | | | | | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | | Date: February 2020 | | | | | | | | |
|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|--|---------------|----------------------|---------------------|---------------|----------------------|---|---------------|----------------------|---------------------|---------------|----------------------|---------------|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | | | | | | Item Number / Title [DODIC]: C59403 / TOW Family of Missiles | | | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | | | | |
| Resource Summary | | | | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
| Procurement Quantity <i>(Units in Each)</i> | | | | 172,869 | | | 1,228 | | | 1,460 | | | 1,405 | | | - | | | 1,405 | | |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | | | | 3,511.267 | | | 119.062 | | | 127.907 | | | 131.574 | | | - | | | 131.574 | | |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | | | | 187.649 | | | 19.949 | | | 19.949 | | | 10.500 | | | - | | | 10.500 | | |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | | | | 3,323.618 | | | 99.113 | | | 107.958 | | | 121.074 | | | - | | | 121.074 | | |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | | | | 207.598 | | | 19.949 | | | 10.500 | | | - | | | - | | | - | | |
| Total Obligation Authority <i>(\$ in Millions)</i> | | | | 3,531.216 | | | 119.062 | | | 118.458 | | | 121.074 | | | - | | | 121.074 | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | | | | - | | | - | | | - | | | - | | | - | | | - | | |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | | | | 20.312 | | | 96.956 | | | 87.608 | | | 93.647 | | | - | | | 93.647 | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | | | |
| Flyaway Cost | | | | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | | | | |
| Missile Contract ^(†) | 19.860 | 172,404 | 3,423.943 | 86.722 | 1,228 | 106.495 | 78.455 | 1,460 | 114.545 | 79.873 | 1,405 | 112.222 | - | - | - | 79.873 | 1,405 | 112.222 | | | |
| Subtotal: Recurring Cost | - | - | 3,423.943 | - | - | 106.495 | - | - | 114.545 | - | - | 112.222 | - | - | - | - | - | 112.222 | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | | | | |
| Counter Active Protection System (CAPS) Obsolescence | - | - | - | - | - | - | - | - | - | - | - | 4.725 | - | - | - | - | - | 4.725 | | | |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 4.725 | - | - | - | - | - | 4.725 | | | |
| Subtotal: Flyaway Cost | - | - | 3,423.943 | - | - | 106.495 | - | - | 114.545 | - | - | 116.947 | - | - | - | - | - | 116.947 | | | |
| Support - Acceptance Testing Cost | | | | | | | | | | | | | | | | | | | | | |
| Acceptance Test | - | - | 12.934 | - | - | 4.557 | - | - | 4.650 | - | - | 4.743 | - | - | - | - | - | 4.743 | | | |
| Subtotal: Support - Acceptance Testing Cost | - | - | 12.934 | - | - | 4.557 | - | - | 4.650 | - | - | 4.743 | - | - | - | - | - | 4.743 | | | |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 47.993 | - | - | 5.285 | - | - | 5.933 | - | - | 6.120 | - | - | - | - | - | 6.120 | | | |
| Subtotal: Support - Program Management Cost | - | - | 47.993 | - | - | 5.285 | - | - | 5.933 | - | - | 6.120 | - | - | - | - | - | 6.120 | | | |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | 26.397 | - | - | 2.725 | - | - | 2.779 | - | - | 3.764 | - | - | - | - | - | 3.764 | | | |
| Subtotal: Support - System Engineering Cost | - | - | 26.397 | - | - | 2.725 | - | - | 2.779 | - | - | 3.764 | - | - | - | - | - | 3.764 | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | | | | | Item Number / Title [DODIC]: C59403 / TOW Family of Missiles | | | | |

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

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

| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
|--------------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Gross/Weapon System Cost | 20.312 | 172,869 | 3,511.267 | 96.956 | 1,228 | 119.062 | 87.608 | 1,460 | 127.907 | 93.647 | 1,405 | 131.574 | - | - | - | 93.647 | 1,405 | 131.574 |

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

| Cost Element Breakout | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
|--------------------------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Missile Contract | 19.860 | 172,404 | 3,423.943 | 86.722 | 1,228 | 106.495 | 78.455 | 1,460 | 114.545 | 79.873 | 1,405 | 112.222 | - | - | - | 79.873 | 1,405 | 112.222 |
| All configurations (FY 19 and prior) | 19.860 | 172,404 | 3,423.943 | 86.722 | 1,228 | 106.495 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2B Aero | - | - | - | - | - | - | 90.695 | 960 | 87.067 | 93.640 | 905 | 84.744 | - | - | - | 93.640 | 905 | 84.744 |
| Bunker Buster | - | - | - | - | - | - | 54.956 | 500 | 27.478 | 54.956 | 500 | 27.478 | - | - | - | 54.956 | 500 | 27.478 |

Remarks:

The Multi-Year (MY) portion of the TOW Contract (FY17-21) includes only the TOW Bunker Buster variant, with a constant unit price of \$54,956.

TOW 2B Aero missiles are procured as single year options under the TOW Five-Year MY Contract (FY17-21). The estimated FY21 TOW 2B Aero unit price increases from FY20 to FY21 due to a budget reduction resulting in fewer missiles procured.

USMC is currently procuring the TOW 2A Practice missile variant which has a different unit cost than the Army's TOW 2B Aero and TOW Bunker Buster variants.

The FY21 Army TOW 2B missile unit price estimate assumes a total of 1,198 USMC and FMS missiles as follows:

FY 21 USMC:
TOW 2A/2A Practice: 448

FY 21 FMS:
TOW 2B Aero: 500
TOW 2A: 250

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|--------------------------------------|-----------------------------------|----------------|----------------|----------------|-------------|----------------|
| Army | Quantity | 1,228 | 1,460 | 1,405 | - | 1,405 |
| | Total Obligation Authority | 119.062 | 118.458 | 121.074 | - | 121.074 |
| Total: Secondary Distribution | Quantity | 1,228 | 1,460 | 1,405 | - | 1,405 |
| | Total Obligation Authority | 119.062 | 118.458 | 121.074 | - | 121.074 |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | Date: February 2020 |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | Item Number / Title [DODIC]: C59403 / TOW Family of Missiles |
| ID Code (A=Service Ready, B=Not Service Ready) : | | MDAP/MAIS Code: |
| <p>(†) indicates the presence of a P-5a</p> | | |

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army | | | | | | | | | Date: February 2020 | | | |
|---|-------------|------|-------------------------|---|-----------------------------|---------------|------------------------------|---------------|--|------------------------|-------------------------------|-------------------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | | | | | Item Number / Title [DODIC]: C59403 / TOW Family of Missiles | | | |
| Cost Elements | O C 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 |
| Missile Contract ^(†) | | 2019 | Raytheon / Tucson | SS / FPIF | AMCOM, Redstone Arsenal, AL | May 2019 | Sep 2020 | 1,228 | 86.722 | Y | | |
| Missile Contract ^(†) | | 2020 | Raytheon / Tucson | SS / FPIF | AMCOM, Redstone Arsenal, AL | Mar 2020 | Jul 2021 | 1,460 | 78.455 | Y | | |
| Missile Contract ^(†) | | 2021 | Raytheon / Tucson | SS / FPIF | AMCOM, Redstone Arsenal, AL | Mar 2021 | Jul 2022 | 1,405 | 79.873 | Y | | |
| <p>(†) indicates the presence of a P-21</p> <p>Remarks: Raytheon is currently the only industry source that is both facilitized and qualified to produce TOW missiles.</p> <p>AMCOM Aviation and Missile Command SS Sole Source FPIF Fixed Price Incentive Firm Target MY Multi-Year</p> | | | | | | | | | | | | |

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LI 2104C59300 - TOW 2 System Summary

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | |
|---|------------------|------|--------------------|-------------|--|------------------------------|--------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|-------------|-------|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | | | | | | | | | | Item Number / Title [DODIC]: C59403 / TOW Family of Missiles | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2021 | | | | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | | B A L A N C E | | | |
| O C C O | M F R # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | Calendar Year 2021 | | | | | | | | | | Calendar Year 2022 | | | | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | | S E P | | |
| Missile Contract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 172404 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2019 | ARMY | 1,228 | 175 | 1,053 | 175 | 175 | 175 | 175 | 175 | 178 | - | - | - | - | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2019 | FMS ^(†) | 787 | 0 | 787 | - | 87 | 100 | 100 | 100 | 100 | 75 | 75 | 75 | 75 | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2019 | MC ^(†) | 704 | 0 | 704 | - | - | - | - | - | - | 125 | 225 | 225 | 129 | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2019 | Total | 2,719 | 175 | 2,544 | 175 | 262 | 275 | 275 | 275 | 278 | 200 | 300 | 300 | 204 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| | 1 | 2020 | ARMY | 1,460 | 0 | 1,460 | - | - | - | - | - | - | - | - | - | 125 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 110 | - | - | - | | | | 0 | | |
| | 1 | 2020 | FMS ^(†) | 750 | 0 | 750 | - | - | - | - | - | - | - | - | - | - | 50 | 50 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 50 | | | | 0 | | |
| | 1 | 2020 | MC ^(†) | 500 | 0 | 500 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 157 | 175 | 168 | | | | 0 | | | |
| | 1 | 2020 | Total | 2,710 | 0 | 2,710 | - | - | - | - | - | - | - | - | - | 125 | 225 | 225 | 250 | 250 | 250 | 250 | 250 | 250 | 185 | 232 | 250 | 218 | - | - | - | 0 | |
| | 1 | 2021 | ARMY | 1,405 | 0 | 1,405 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 175 | 175 | 175 | 880 | |
| | 1 | 2021 | FMS ^(†) | 750 | 0 | 750 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 750 | |
| | 1 | 2021 | MC ^(†) | 448 | 0 | 448 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 448 | |
| | 1 | 2021 | Total | 2,603 | 0 | 2,603 | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 175 | 175 | 175 | 2,078 | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | |
|---|-------|------|---------|----------|----------------------------|---------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|---------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | | | | | | | | | | | | | Item Number / Title [DODIC]: C59403 / TOW Family of Missiles | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | | BALANCE |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | Calendar Year 2023 | | | | | | | | | | | | | Calendar Year 2024 | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |
| Missile Contract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 172404 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2019 | ARMY | 1,228 | 1,228 | 0 | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | |
| | 1 | 2019 | FMS (+) | 787 | 787 | 0 | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | |
| | 1 | 2019 | MC (+) | 704 | 704 | 0 | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | |
| | 1 | 2019 | Total | 2,719 | 2,719 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | |
| | 1 | 2020 | ARMY | 1,460 | 1,460 | 0 | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | |
| | 1 | 2020 | FMS (+) | 750 | 750 | 0 | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | |
| | 1 | 2020 | MC (+) | 500 | 500 | 0 | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | |
| | 1 | 2020 | Total | 2,710 | 2,710 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | |
| | 1 | 2021 | ARMY | 1,405 | 525 | 880 | 175 | 175 | 175 | 175 | 180 | - | - | - | - | | | | | | | | | | | | | | | 0 | | | |
| | 1 | 2021 | FMS (+) | 750 | 0 | 750 | - | - | - | 125 | 125 | 175 | 125 | 100 | 100 | | | | | | | | | | | | | | | 0 | | | |
| | 1 | 2021 | MC (+) | 448 | 0 | 448 | - | - | - | - | - | - | 150 | 150 | 148 | | | | | | | | | | | | | | | 0 | | | |
| | 1 | 2021 | Total | 2,603 | 525 | 2,078 | 175 | 175 | 175 | 300 | 305 | 175 | 275 | 250 | 248 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |

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|--|--|--|--|--|---|--|--|----------------------------|--|--|--|
| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | | | | Item Number / Title [DODIC]: C59403 / TOW Family of Missiles | | |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
|-----------------|---------------------------------|--------------------------------|----------------|--------------|-------------------------------|--------------------|----------------------|----------------------|-----------------------|--------------------|----------------------|----------------------|
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | Initial | | | | Reorder | | | |
| | | | | | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Raytheon - Tucson | 2,100 | 7,200 | 16,800 | 3 | 2 | 16 | 18 | 3 | 2 | 16 | 18 |

Remarks:

Multiyear contracts do not follow the Production Lead Time shown for annual year contracts.

10 U.S. Code #2431 and DoD Financial Mgt Reg Vol 2B, Ch4 mandate Production Rates be defined in terms of "budget year."

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

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

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

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

| | |
|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary |
|---|---|

| | |
|---|--|
| 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 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
|--|----------------|---------------|---------------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|----------------|
| Gross/Weapon System Cost (\$ in Millions) | 207.598 | 19.949 | 10.500 | - | - | - | - | - | - | - | - | 238.047 |
| Net Procurement (P-1) (\$ in Millions) | 207.598 | 19.949 | 10.500 | - | - | - | - | - | - | - | - | 238.047 |
| Total Obligation Authority (\$ in Millions) | 207.598 | 19.949 | 10.500 | - | - | - | - | - | - | - | - | 238.047 |

Description:

TOW missiles (BGM-71 Series) are combat proven munitions that provide heavy anti-armor/assault capability to the Army's Infantry Brigade Combat Teams (IBCT), Stryker Brigade Combat Teams (SBCT) and Armor Brigade Combat Teams (ABCT). TOW missiles continue to be used as the weapon of choice in precision combat engagements. TOW missiles are also the primary heavy anti-armor/ assault missile for the U.S. Marine Corps (USMC) and more than 43 allied nations. Warfighters also employ TOW missiles against buildings and field fortifications, taking advantage of the missile's precision assault capabilities.

The TOW Weapon System includes the ITAS launcher, TOW missiles, and associated tactical training aids/devices. The ITAS is a combat proven TOW missile launcher that provides long-range, lethal anti-armor and precision assault fires capability for Active, Reserve, and National Guard component Infantry and SBCT across a spectrum of operational environments. The USMC employs the TOW missile from its ITAS derived M41A7 Saber launchers, ATGM vehicles, and AH-1W Cobra helicopters.

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|--|---------------------------------------|--------------|-----------------------|--|---|--|--|--|--|
| Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2021 Army | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | | | | |
| 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* | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-10 | C59403 / TOW Family of Missiles | | | 172,869 / 207.598 | 1,228 / 19.949 | 1,460 / 10.500 | 1,405 / - | - / - | 1,405 / - |
| P-40 | Total Gross/Weapon System Cost | | | 172,869 / 207.598 | 1,228 / 19.949 | 1,460 / 10.500 | 1,405 / - | - / - | 1,405 / - |
| *Title represents the P-10 Title for Advance Procurement. | | | | | | | | | |
| Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding. | | | | | | | | | |
| <p>Justification: FY21 is the last year of the FY17-21 Multi-year contract and has no advanced procurement.</p> <p>The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to increase the Army procurement of TOW missiles, and to mitigate safety and obsolescence.</p> <p>IAW Section 1815 of the FY08 NDAA, this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>The FY21 Army TOW 2B missile unit price estimate assumes a total of 1,198 USMC and FMS missiles as follows:</p> <p>FY 21 USMC: TOW 2A/2A Practice: 448</p> <p>FY 21 FMS: TOW 2B Aero: 500 TOW 2A: 250</p> | | | | | | | | | |

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|--|----|---|-------------------------------------|---|---|---------------------------------|
| Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2021 Army | | | | | Date: February 2020 | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | | | P-5 Number / Title: C59403 / TOW Family of Missiles | |
| First System (2021) Award Date: December 2017 | | First System (2021) Completion Date: July 2018 | | Interval Between Systems: 12 Months | | |
| TOW Family of Missiles | | Production Leadtime <i>(Months)</i> | Prior Years <i>(Each)</i> | FY 2019 <i>(Each)</i> | FY 2020 <i>(Each)</i> | FY 2021 <i>(Each)</i> |
| Quantity | | | 172,869 | 1,228 | 1,460 | 1,405 |
| | | | | | | |
| Cost Elements | | When Required <i>(Months)</i> | Prior Years <i>(\$ M)</i> | FY 2019 <i>(\$ M)</i> | FY 2020 <i>(\$ M)</i> | FY 2021 <i>(\$ M)</i> |
| Other | | | | | | |
| Warhead | 14 | 94.342 | 7.942 | 6.923 | - | - |
| Launch Motor | 14 | 11.399 | 0.838 | 0.730 | - | - |
| Flight Motor | 12 | 3.299 | 0.158 | 0.138 | - | - |
| 2B Sensor | 18 | 57.143 | 7.902 | - | - | - |
| Gyro | 13 | 19.047 | 1.433 | 1.249 | - | - |
| Flight Motor Case Kit | 10 | 4.319 | 0.325 | 0.283 | - | - |
| Control Surface Actuator | 14 | 11.271 | 0.848 | 0.739 | - | - |
| Beacon Shutter Actuator | 11 | 6.778 | 0.503 | 0.438 | - | - |
| <i>Total: Other</i> | | <i>207.598</i> | <i>19.949</i> | <i>10.500</i> | <i>-</i> | <i>-</i> |
| Total Advance Procurement/Obligation Authority | | 207.598 | 19.949 | 10.500 | - | - |
| | | | | | | |

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|--|-----------------------------|---|-----------------------------------|-------------------------------|----------------------------------|---|--|
| Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2021 Army | | | | | | Date: February 2020 | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | P-1 Line Item Number / Title: 2104C59300 / TOW 2 System Summary | | | | P-5 Number / Title: C59403 / TOW Family of Missiles | |
| Cost Elements | QPA <i>(Each)</i> | FY 2021 | | | | | |
| | | Production Leadtime <i>(Months)</i> | Unit Cost <i>(\$ K)</i> | Contract Forecast Date | 2021 Qty <i>(Each)</i> | For FY | Total Cost Request <i>(\$ M)</i> |
| Other | | | | | | | |
| Warhead | - | | | | | | - |
| Launch Motor | - | | | | | | - |
| Flight Motor | - | | | | | | - |
| 2B Sensor | - | | | | | | - |
| Gyro | - | | | | | | - |
| Flight Motor Case Kit | - | | | | | | - |
| Control Surface Actuator | - | | | | | | - |
| Beacon Shutter Actuator | - | | | | | | - |
| <i>Total: Other</i> | | | | | | | - |
| Total Advance Procurement/Obligation Authority | | | | | | | - |
| Description: FY21 is the last year of the FY17-21 Multi-year contract and has no advanced procurement. | | | | | | | |

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|---|-----------------------------------|----------------|---|---------------------|--------------------|----------------------|---|---|----------------|----------------------------|--------------------|-------------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | | P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS) | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): A | | | Program Elements for Code B Items: N/A | | | | | Other Related Program Elements: 0603778A, 0205778A | | | | |
| Line Item MDAP/MAIS Code: 260 | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | 34,546 | 7,668 | 8,211 | 5,384 | 904 | 6,288 | 5,478 | 6,564 | 6,312 | 5,808 | Continuing | Continuing |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 4,367.629 | 975.507 | 1,176.406 | 850.157 | 127.015 | 977.172 | 808.559 | 984.484 | 990.005 | 960.079 | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 4,367.629 | 975.507 | 1,176.406 | 850.157 | 127.015 | 977.172 | 808.559 | 984.484 | 990.005 | 960.079 | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 4,367.629 | 975.507 | 1,176.406 | 850.157 | 127.015 | 977.172 | 808.559 | 984.484 | 990.005 | 960.079 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 126.429 | 127.218 | 143.272 | 157.904 | 140.503 | 155.403 | 147.601 | 149.982 | 156.845 | 165.303 | Continuing | Continuing |
| <p>Description: Guided Multiple Launch Rocket System (GMLRS) rockets are surface-to-surface artillery rockets fired from the Multiple Launch Rocket System (MLRS) and High Mobility Artillery Rocket System (HIMARS) launchers. GMLRS rockets provide 24/7, all-weather precision fires to engage both area and point targets at short, medium, and long ranges. The U.S. Marine Corps also procures GMLRS rockets through the Army project office.</p> <p>The GMLRS Program currently consists of multiple variants: GMLRS Dual Purpose Improved Conventional Munition (DPICM) is a cluster munition that replaced the shorter range MLRS rockets to engage area or imprecisely located targets. GMLRS DPICM Production was terminated in response to the June 2008 Department of Defense (DoD) Cluster Munitions Policy. GMLRS Unitary utilizes a 200 pound high explosive warhead to engage point targets with limited collateral damage. GMLRS Alternative Warhead (AW) was developed as a non-cluster munition to engage the same target sets as DPICM. GMLRS Unitary and AW are currently in full rate production. An Engineering Change Proposal (ECP) is currently in process to extend the range of GMLRS rockets.</p> | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | 7,668 | 8,211 | 5,384 | 904 | 6,288 | 5,478 | 6,564 | 6,312 | 5,808 | | |
| | Total Obligation Authority | 975.507 | 1,176.406 | 850.157 | 127.015 | 977.172 | 808.559 | 984.484 | 990.005 | 960.079 | | |
| Total: Secondary Distribution | Quantity | 7,668 | 8,211 | 5,384 | 904 | 6,288 | 5,478 | 6,564 | 6,312 | 5,808 | | |
| | Total Obligation Authority | 975.507 | 1,176.406 | 850.157 | 127.015 | 977.172 | 808.559 | 984.484 | 990.005 | 960.079 | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
|--|---------------------------------------|-------------|---|----------------|--|---|--|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS) | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): A | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0603778A, 0205778A | | | | |
| Line Item MDAP/MAIS Code: 260 | | | | | | | | | | |
| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C65404 / GUIDED MLRS ROCKET (GMLRS) | P-5a, P-21 | | | 34,522 / 4,363.463 | 7,668 / 975.507 | 8,211 / 1,175.915 | 5,384 / 849.661 | 904 / 127.015 | 6,288 / 976.676 |
| P-40a | C65406 / GMLRS Training Devices | | | | 24 / 4.166 | - / - | - / 0.491 | - / 0.496 | - / - | - / 0.496 |
| P-40 | Total Gross/Weapon System Cost | | | | 34,546 / 4,367.629 | 7,668 / 975.507 | 8,211 / 1,176.406 | 5,384 / 850.157 | 904 / 127.015 | 6,288 / 977.172 |
| <p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p> | | | | | | | | | | |
| <p>Justification: The FY 2021 Base procurement dollars in the amount of \$850.157 million support the procurement of 5,384 rockets. FY 2021 OCO procurement dollars in the amount of \$127.015 million support the acquisition of 904 GMLRS rockets for the United States Army. \$0.496 million of Base procurement dollars support the acquisition of equipment and support to ensure Guided Multiple Launch Rocket Common Training Device alignment with the production configuration. The actual missile buy quantities are subject to the mix between AW and Unitary warheads, standard versus extended range configurations, replacement pod cut-in, and replacement pod/Extended Range ECP tooling capacity ramp-up. In FY 2021, the Army requires 618 Unitary and 5,670 Alternative Warhead variants in support of the Army's Total Munitions Requirement (TMR). TMR quantities are evaluated and adjusted annually. As of July, 2019, the TMR showed requirements for Unitary of 14,351 and for AW of 62,259.</p> <p>GMLRS has benefited from the availability of 30 year old M-26 pods that are repurposed for current GMLRS production. Due to dwindling supply of these pods, procurement of replacement pods must begin around FY 2022. \$70 million of FY2021 funds are used to procure tooling and new production for these efforts.</p> <p>The AAO is 140,004.</p> <p>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.</p> | | | | | | | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | |
|--|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------------|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS) | | | | | | Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS) | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | MDAP/MAIS Code: | | | | | | | | | |
| Resource Summary | | | | Prior Years | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | | | |
| Procurement Quantity <i>(Units in Each)</i> | | | | 34,522 | | 7,668 | | 8,211 | | 5,384 | | 904 | | 6,288 | | | | |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | | | | 4,363.463 | | 975.507 | | 1,175.915 | | 849.661 | | 127.015 | | 976.676 | | | | |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | | | | 4,363.463 | | 975.507 | | 1,175.915 | | 849.661 | | 127.015 | | 976.676 | | | | |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Total Obligation Authority <i>(\$ in Millions)</i> | | | | 4,363.463 | | 975.507 | | 1,175.915 | | 849.661 | | 127.015 | | 976.676 | | | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | | | | 126.397 | | 127.218 | | 143.212 | | 157.812 | | 140.503 | | 155.324 | | | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Tactical GMLRS Hardware ^(†) | 109.928 | 34,546 | 3,797.566 | 122.689 | 7,668 | 940.782 | 139.097 | 8,211 | 1,142.126 | 139.130 | 5,384 | 749.078 | 139.102 | 904 | 125.748 | 139.126 | 6,288 | 874.826 |
| Ind Maint/Init Prod Fac | - | - | 116.722 | - | - | 4.857 | - | - | 4.954 | - | - | 70.000 | - | - | - | - | - | 70.000 |
| Production Verification Testing | - | - | 64.271 | - | - | 6.671 | - | - | 5.109 | - | - | 6.772 | - | - | 1.137 | - | - | 7.909 |
| First Destination Transportation | - | - | 5.328 | - | - | 1.053 | - | - | 1.140 | - | - | 0.773 | - | - | 0.130 | - | - | 0.903 |
| Production Engineering Support | - | - | 178.354 | - | - | 12.585 | - | - | 12.836 | - | - | 13.093 | - | - | - | - | - | 13.093 |
| Spares | - | - | 2.913 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 4,165.154 | - | - | 965.948 | - | - | 1,166.165 | - | - | 839.716 | - | - | 127.015 | - | - | 966.731 |
| Subtotal: Flyaway Cost | - | - | 4,165.154 | - | - | 965.948 | - | - | 1,166.165 | - | - | 839.716 | - | - | 127.015 | - | - | 966.731 |
| Support - Engineering Change Proposals Cost | | | | | | | | | | | | | | | | | | |
| Engineering Change Proposals | - | - | 111.429 | - | - | 6.035 | - | - | 6.156 | - | - | 6.279 | - | - | - | - | - | 6.279 |
| Subtotal: Support - Engineering Change Proposals Cost | - | - | 111.429 | - | - | 6.035 | - | - | 6.156 | - | - | 6.279 | - | - | - | - | - | 6.279 |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 86.880 | - | - | 3.523 | - | - | 3.594 | - | - | 3.666 | - | - | - | - | - | 3.666 |

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|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS) | | | | | Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS) | | | | | | | |

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

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

| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| <i>Subtotal: Support - Program Management Cost</i> | - | - | 86.880 | - | - | 3.523 | - | - | 3.594 | - | - | 3.666 | - | - | - | - | - | 3.666 |
| Gross/Weapon System Cost | 126.397 | 34,522 | 4,363.463 | 127.218 | 7,668 | 975.507 | 143.212 | 8,211 | 1,175.915 | 157.812 | 5,384 | 849.661 | 140.503 | 904 | 127.015 | 155.324 | 6,288 | 976.676 |

Remarks:

The Army fully transitions to Insensitive Munitions Propulsion System Motors (IMPS) for all rockets beginning in FY 2020. This transition, coupled with increased procurement of the more expensive AW variant to support the Army's TMR leads to an overall unit cost growth.

In FY 2021, it will be necessary to procure tooling for production of new pods and for ER GMLRS. \$70 million of FY 2021 funds are used to procure tooling for these efforts.

Costs for Engineering Change Proposals covers activities associated with resolving manufacturing-related changes that arise due to emerging statutory and regulatory requirements, planned and unplanned parts obsolescence, supply chain disruptions, cost reduction initiatives, quality improvement, and studies and investigations. Some of the currently known issues that must be resolved include obsolescence of certain components within the safe arm fuze, proximity sensor, guidance set, and motor material.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|---|----------------------------|---------|-----------|--------------|-------------|---------------|
| Army | Quantity | 7,668 | 8,211 | 5,384 | 904 | 6,288 |
| | Total Obligation Authority | 975.507 | 1,175.915 | 849.661 | 127.015 | 976.676 |
| Total: Secondary Distribution | Quantity | 7,668 | 8,211 | 5,384 | 904 | 6,288 |
| | Total Obligation Authority | 975.507 | 1,175.915 | 849.661 | 127.015 | 976.676 |

(†) 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: 2032A / 02 / 30 | | | P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS) | | | | | | Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS) | | | |
| Cost Elements | O C 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 |
| Tactical GMLRS Hardware ^(†) | | 2015 | Lockheed Martin M.&F.C Sys. / Dallas, TX | SS / FPIF | Aviation and Missile Command | Jun 2015 | Jun 2016 | 450 | 125.576 | N | | Feb 2013 |
| Tactical GMLRS Hardware ^(†) | | 2016 | Lockheed Martin M.&F.C Sys. / Dallas, TX | SS / FPIF | Aviation and Missile Command | May 2016 | May 2017 | 1,572 | 138.800 | N | | Feb 2016 |
| Tactical GMLRS Hardware ^(†) | | 2017 | Lockheed Martin M.&F.C Sys. / Dallas, TX | SS / FPIF | Aviation and Missile Command | May 2017 | Jul 2018 | 2,970 | 112.270 | N | | Feb 2016 |
| Tactical GMLRS Hardware ^(†) | | 2018 | Lockheed Martin M.&F.C Sys. / Dallas, TX | SS / FPIF | Aviation and Missile Command | Apr 2018 | Aug 2019 | 6,528 | 151.746 | N | | Feb 2017 |
| Tactical GMLRS Hardware ^(†) | | 2019 | Lockheed Martin M.&F.C Sys. / Dallas, TX | SS / FPIF | Aviation and Missile Command | Mar 2019 | Aug 2020 | 7,668 | 122.689 | N | | Feb 2017 |
| Tactical GMLRS Hardware ^(†) | | 2020 | Lockheed Martin M.&F.C Sys. / Dallas, TX | SS / FPIF | Aviation and Missile Command | Mar 2020 | Aug 2021 | 8,211 | 139.097 | N | | Feb 2017 |
| Tactical GMLRS Hardware ^(†) | | 2021 | Lockheed Martin M.&F.C Sys. / Dallas, TX | SS / FPIF | Aviation and Missile Command | Mar 2021 | Aug 2022 | 6,288 | 139.126 | N | | May 2019 |
| <p>^(†) indicates the presence of a P-21</p> <p>Remarks: Lockheed Martin is currently the industry source that is both facilitized and qualified to produce the GMLRS rocket. FY19 and FY20 annual production contracts are options on the FY18 base contract. FY21 annual production is planned to be an Indefinite Delivery Indefinite Quantity (IDIQ) contract type.</p> <p>*Sole Source/Fixed Price Incentive Firm **Aviation and Missile Command, Redstone Arsenal, Alabama</p> | | | | | | | | | | | | |

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LI 6005C64400 - Guided MLRS Rocket (GMLRS) **UNCLASSIFIED** P-1 Line #13 96

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | |
|---|-------|------|---------|----------|----------------------------|---------------------|------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---|-------|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS) | | | | | | | | | | Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS) | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2017 | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | | | BALANCE | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2016 | BAL DUE AS OF 1 OCT | | | | Calendar Year 2017 | | | | | | | | | | Calendar Year 2018 | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | |
| Tactical GMLRS Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 23026 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 450 | 162 | 288 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | | | | | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2015 | FMS (+) | 390 | 126 | 264 | 36 | 36 | 30 | 30 | 30 | 36 | 36 | | | | | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2015 | MC (+) | 60 | 24 | 36 | 6 | 6 | 6 | 6 | 6 | 6 | - | - | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2015 | Total | 900 | 312 | 588 | 78 | 78 | 72 | 72 | 72 | 72 | 72 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | |
| | 1 | 2016 | ARMY | 1,572 | 0 | 1,572 | - | - | - | - | - | - | - | 156 | 156 | 156 | 156 | 156 | 156 | 102 | 96 | 96 | 96 | 90 | | | | | | 0 | | | | |
| | 1 | 2016 | FMS (+) | 492 | 0 | 492 | - | - | - | - | - | - | - | 36 | 36 | 36 | 42 | 42 | 42 | 42 | 42 | 48 | 42 | 42 | | | | | | 0 | | | | |
| | 1 | 2016 | MC (+) | 90 | 0 | 90 | - | - | - | - | - | - | - | 12 | 12 | 12 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | | | 0 | | | | | |
| | 1 | 2016 | Total | 2,154 | 0 | 2,154 | - | - | - | - | - | - | - | 204 | 204 | 204 | 204 | 204 | 204 | 204 | 150 | 144 | 150 | 144 | 138 | - | - | - | - | - | 0 | | | |
| | 1 | 2017 | ARMY | 2,970 | 0 | 2,970 | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 252 | 252 | 252 | 2,214 | | | |
| | 1 | 2017 | FMS (+) | 60 | 0 | 60 | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 60 | - | - | 0 | | | |
| | 1 | 2017 | MC (+) | 336 | 0 | 336 | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 24 | 24 | 24 | 264 | | | |
| | 1 | 2017 | Total | 3,366 | 0 | 3,366 | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 336 | 276 | 276 | 2,478 | | | |
| | 1 | 2018 | ARMY | 6,528 | 0 | 6,528 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 6,528 | | | |
| | 1 | 2018 | FMS (+) | 96 | 0 | 96 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 96 | | | |
| | 1 | 2018 | MC (+) | 372 | 0 | 372 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 372 | | | |
| | 1 | 2018 | Total | 6,996 | 0 | 6,996 | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | 6,996 | | | |
| | 1 | 2019 | ARMY | 7,668 | 0 | 7,668 | | | | | | | | | | | | | | | | | | | | | | | | | | | 7,668 | |
| | 1 | 2019 | FMS (+) | 462 | 0 | 462 | | | | | | | | | | | | | | | | | | | | | | | | | | | 462 | |
| | 1 | 2019 | MC (+) | 222 | 0 | 222 | | | | | | | | | | | | | | | | | | | | | | | | | | | 222 | |
| | 1 | 2019 | Total | 8,352 | 0 | 8,352 | | | | | | | | | | | | | | | | | | | | | | | | | | | 8,352 | |
| | 1 | 2020 | ARMY | 8,211 | 0 | 8,211 | | | | | | | | | | | | | | | | | | | | | | | | | | | 8,211 | |
| | 1 | 2021 | ARMY | 6,288 | 0 | 6,288 | | | | | | | | | | | | | | | | | | | | | | | | | | | 6,288 | |
| | 1 | 2021 | FMS (+) | 612 | 0 | 612 | | | | | | | | | | | | | | | | | | | | | | | | | | | 612 | |
| | 1 | 2021 | MC (+) | 330 | 0 | 330 | | | | | | | | | | | | | | | | | | | | | | | | | | | 330 | |
| | 1 | 2021 | Total | 7,230 | 0 | 7,230 | | | | | | | | | | | | | | | | | | | | | | | | | | | 7,230 | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | |
|---|------------------|------|---------|-------------|--|------------------------------|--------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-----|---------------------------------|-------|-------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS) | | | | | | | | | | Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS) | | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | | B A L A N C E | | |
| O C C O | M F R # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | Calendar Year 2019 | | | | | | | | | | | | | Calendar Year 2020 | | | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | |
| Tactical GMLRS Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 23026 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 450 | 450 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2015 | FMS (+) | 390 | 390 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2015 | MC (+) | 60 | 60 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2015 | Total | 900 | 900 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | |
| | 1 | 2016 | ARMY | 1,572 | 1,572 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2016 | FMS (+) | 492 | 492 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2016 | MC (+) | 90 | 90 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2016 | Total | 2,154 | 2,154 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | |
| | 1 | 2017 | ARMY | 2,970 | 756 | 2,214 | 246 | 246 | 246 | 246 | 246 | 246 | 246 | 246 | | | | | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2017 | FMS (+) | 60 | 60 | 0 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2017 | MC (+) | 336 | 72 | 264 | 24 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | |
| | 1 | 2017 | Total | 3,366 | 888 | 2,478 | 270 | 276 | 276 | 276 | 276 | 276 | 276 | 276 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | |
| | 1 | 2018 | ARMY | 6,528 | 0 | 6,528 | - | - | - | - | - | - | - | - | - | 546 | 546 | 546 | 546 | 546 | 546 | 546 | 546 | 540 | 540 | 540 | 540 | | | | 0 | | | | |
| | 1 | 2018 | FMS (+) | 96 | 0 | 96 | - | - | - | - | - | - | - | - | - | 12 | 12 | 12 | 12 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | 0 | | | | |
| | 1 | 2018 | MC (+) | 372 | 0 | 372 | - | - | - | - | - | - | - | - | - | 36 | 36 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | | | | 0 | | | | |
| | 1 | 2018 | Total | 6,996 | 0 | 6,996 | - | - | - | - | - | - | - | - | - | 594 | 594 | 588 | 588 | 582 | 582 | 582 | 582 | 576 | 576 | 576 | 576 | - | - | 0 | | | | | |
| | 1 | 2019 | ARMY | 7,668 | 0 | 7,668 | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 642 | 642 | 6,384 | | |
| | 1 | 2019 | FMS (+) | 462 | 0 | 462 | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 30 | 36 | 396 | | |
| | 1 | 2019 | MC (+) | 222 | 0 | 222 | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 24 | 18 | 180 | | |
| | 1 | 2019 | Total | 8,352 | 0 | 8,352 | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 696 | 696 | 6,960 | | |
| | 1 | 2020 | ARMY | 8,211 | 0 | 8,211 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | 8,211 |
| | 1 | 2021 | ARMY | 6,288 | 0 | 6,288 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6,288 | |
| | 1 | 2021 | FMS (+) | 612 | 0 | 612 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 612 | |
| | 1 | 2021 | MC (+) | 330 | 0 | 330 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 330 | |
| | 1 | 2021 | Total | 7,230 | 0 | 7,230 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7,230 | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | |
|---|-------|------|---------|----------|----------------------------|---------------------|--------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|--|---------|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS) | | | | | | | | | | Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS) | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | | BALANCE | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | Calendar Year 2021 | | | | | | | | | | | | | Calendar Year 2022 | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tactical GMLRS Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 23026 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 450 | 450 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2015 | FMS (+) | 390 | 390 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2015 | MC (+) | 60 | 60 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2015 | Total | 900 | 900 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 1 | 2016 | ARMY | 1,572 | 1,572 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2016 | FMS (+) | 492 | 492 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2016 | MC (+) | 90 | 90 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2016 | Total | 2,154 | 2,154 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 1 | 2017 | ARMY | 2,970 | 2,970 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | FMS (+) | 60 | 60 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | MC (+) | 336 | 336 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | Total | 3,366 | 3,366 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 1 | 2018 | ARMY | 6,528 | 6,528 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | FMS (+) | 96 | 96 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | MC (+) | 372 | 372 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | Total | 6,996 | 6,996 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 1 | 2019 | ARMY | 7,668 | 1,284 | 6,384 | 642 | 642 | 642 | 642 | 636 | 636 | 636 | 636 | 636 | 636 | | | | | | | | | | | | | | 0 | | | | |
| | 1 | 2019 | FMS (+) | 462 | 66 | 396 | 36 | 36 | 36 | 36 | 42 | 42 | 42 | 42 | 42 | 42 | | | | | | | | | | | | | | 0 | | | | |
| | 1 | 2019 | MC (+) | 222 | 42 | 180 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | | | | | | | | | | | | | | 0 | | | | |
| | 1 | 2019 | Total | 8,352 | 1,392 | 6,960 | 696 | 696 | 696 | 696 | 696 | 696 | 696 | 696 | 696 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 1 | 2020 | ARMY | 8,211 | 0 | 8,211 | - | - | - | - | - | - | - | - | - | 690 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 684 | 681 | | | 0 | | | |
| | 1 | 2021 | ARMY | 6,288 | 0 | 6,288 | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 528 | 528 | 5,232 | | | |
| | 1 | 2021 | FMS (+) | 612 | 0 | 612 | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 54 | 54 | 504 | | | |
| | 1 | 2021 | MC (+) | 330 | 0 | 330 | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 30 | 30 | 270 | | | |
| | 1 | 2021 | Total | 7,230 | 0 | 7,230 | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 612 | 612 | 6,006 | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | |
|---|-------|------|---------|----------|----------------------------|---------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|---------|--|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS) | | | | | | | | | | | | | | | | Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS) | | | | | | | | | | | | |
| Cost Elements <i>(Units in Each)</i> | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | BALANCE | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | Calendar Year 2023 | | | | | | | | | | | | | | | | Calendar Year 2024 | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | |
| Tactical GMLRS Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 23026 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 450 | 450 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2015 | FMS (+) | 390 | 390 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2015 | MC (+) | 60 | 60 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2015 | Total | 900 | 900 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | |
| | 1 | 2016 | ARMY | 1,572 | 1,572 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2016 | FMS (+) | 492 | 492 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2016 | MC (+) | 90 | 90 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2016 | Total | 2,154 | 2,154 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | |
| | 1 | 2017 | ARMY | 2,970 | 2,970 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2017 | FMS (+) | 60 | 60 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2017 | MC (+) | 336 | 336 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2017 | Total | 3,366 | 3,366 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | |
| | 1 | 2018 | ARMY | 6,528 | 6,528 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2018 | FMS (+) | 96 | 96 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2018 | MC (+) | 372 | 372 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2018 | Total | 6,996 | 6,996 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | |
| | 1 | 2019 | ARMY | 7,668 | 7,668 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2019 | FMS (+) | 462 | 462 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2019 | MC (+) | 222 | 222 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2019 | Total | 8,352 | 8,352 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | |
| | 1 | 2020 | ARMY | 8,211 | 8,211 | 0 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | |
| | 1 | 2021 | ARMY | 6,288 | 1,056 | 5,232 | 528 | 528 | 522 | 522 | 522 | 522 | 522 | 522 | 522 | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2021 | FMS (+) | 612 | 108 | 504 | 54 | 54 | 54 | 54 | 48 | 48 | 48 | 48 | 48 | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2021 | MC (+) | 330 | 60 | 270 | 30 | 30 | 30 | 30 | 30 | 24 | 24 | 24 | 24 | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2021 | Total | 7,230 | 1,224 | 6,006 | 612 | 612 | 606 | 606 | 600 | 594 | 594 | 594 | 594 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | |

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|--|---|--------------------------------|----------------|--|-------------------------------|--------------------|----------------------|---|-----------------------|--------------------|----------------------|----------------------|
| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS) | | | | Item Number / Title [DODIC]: C65404 / GUIDED MLRS ROCKET (GMLRS) | | | | |
| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | Initial | | | | Reorder | | | |
| | | | | | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Lockheed Martin M.&F.C Sys. - Dallas, TX | 2,160 | 10,002 | 10,002 | 0 | 2 | 16 | 18 | 0 | 5 | 15 | 20 |
| <div>Remarks:</div> <div>In the years prior to FY 2020, the GMLRS program shares a production line with Low Cost Reduced Range Practice Rockets (LCRRPR). Any months that show production gaps in years prior to FY 2020 were utilized to manufacture LCRRPR. After FY 2020, LCRRPR will move to its own production line and GMLRS will be delivered on a monthly schedule with no gaps.</div> <div>(‡) 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.</div> <div>"A" in the Delivery Schedule indicates the Contract Award Date.</div> <div>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).</div> | | | | | | | | | | | | |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Army | | | | | | | | | | | | | | | Date: February 2020 | | | | | | |
|---|-------|----------------|------------------|------------|-------------------|--|------------|-------------------|------------------|------------|-------------------|------------------|------------|-------------------|--|------------|-------------------|------------------|------------|-------------------|-------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | P-1 Line Item Number / Title: 6005C64400 / Guided MLRS Rocket (GMLRS) | | | | | | | | | Aggregated Items Title: C65406 / GMLRS Training Devices | | | | | | |
| Item Number / Title [DODIC] | ID CD | MDAP/MAIS Code | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | | |
| | | | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | |
| GMLRS Training Devices | | | | | | | | | | | | | | | | | | | | | |
| C65406 / GMLRS Training Devices | | | | 173.583 | 24 | 4.166 | - | - | - | - | - | 0.491 | - | - | 0.496 | - | - | - | - | - | 0.496 |
| Secondary Distribution | | | | | | | | | | | | | | | | | | | | | |
| Army | | | | | - | - | | - | - | | - | 0.491 | | - | 0.496 | | - | - | | - | 0.496 |
| Subtotal: GMLRS Training Devices | | | | - | - | 4.166 | - | - | - | - | - | 0.491 | - | - | 0.496 | - | - | - | - | - | 0.496 |
| Total | | | | - | - | 4.166 | - | - | - | - | - | 0.491 | - | - | 0.496 | - | - | - | - | - | 0.496 |

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

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|--|-----------------------------------|----------------|---|---------------------|--------------------|----------------------|---|---|----------------|----------------------------|--------------------|-------------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | | P-1 Line Item Number / Title: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | | | Other Related Program Elements: 0210602A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | 46,293 | 2,214 | 2,982 | 3,270 | - | 3,270 | 3,372 | 3,144 | 3,234 | 3,168 | Continuing | Continuing |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 282.364 | 20.964 | 27.555 | 30.836 | - | 30.836 | 32.418 | 30.944 | 32.405 | 32.397 | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 282.364 | 20.964 | 27.555 | 30.836 | - | 30.836 | 32.418 | 30.944 | 32.405 | 32.397 | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 282.364 | 20.964 | 27.555 | 30.836 | - | 30.836 | 32.418 | 30.944 | 32.405 | 32.397 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 6.099 | 9.469 | 9.240 | 9.430 | - | 9.430 | 9.614 | 9.842 | 10.020 | 10.226 | Continuing | Continuing |
| Description: The Multiple Launch Rocket System (MLRS) Low Cost Reduced Range Practice Rocket (LCRRPR) is the only live training rocket that meets the annual certification and pre-deployment requirements for Active and National Guard High Mobility Artillery Rocket System (HIMARS) and M270/M270A1 MLRS launcher units. The critical validated requirement for launcher units ensures units can achieve and maintain combat readiness. HIMARS and M270A1 Battalions are organic and attached to modular Fires Brigades supporting Brigade Combat Teams (BCTs), Joint Expeditionary Force, and Joint Special Operations Force combatant commanders. The training rocket has an inert payload section and blunt nose for inducing reduced range for use at multiple facilities in the United States and foreign countries. LCRRPRs are manufactured by Lockheed Martin in Camden, Arkansas and Letterkenny Munitions Center (LEMC) in Chambersburg, Pennsylvania. LEMC provides an organic dual source. The LCRRPR program includes the cost to Download/Demate (DL/DM) the M26 pod and rocket motor for production reuse. Total cost also includes Bunker Storage and the procurement of Performance Oriented Packaging (POP) boxes, M-26 Rocket Motor Reclamation contract, and RRPR obsolescence. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | 1,554 | 2,088 | 2,286 | - | 2,286 | 2,352 | 2,202 | 2,262 | 2,214 | | |
| | Total Obligation Authority | 14.715 | 19.294 | 21.597 | - | 21.597 | 22.670 | 21.733 | 22.727 | 22.686 | | |
| ANG | Quantity | 660 | 894 | 984 | - | 984 | 1,020 | 942 | 972 | 954 | | |
| | Total Obligation Authority | 6.249 | 8.261 | 9.239 | - | 9.239 | 9.748 | 9.211 | 9.678 | 9.711 | | |
| Total: Secondary Distribution | Quantity | 2,214 | 2,982 | 3,270 | - | 3,270 | 3,372 | 3,144 | 3,234 | 3,168 | | |
| | Total Obligation Authority | 20.964 | 27.555 | 30.836 | - | 30.836 | 32.418 | 30.944 | 32.405 | 32.397 | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | Date: February 2020 | | | |
|---|---|-------------|---|----------------|--|---|--|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | P-1 Line Item Number / Title: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0210602A | | | | |
| 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 | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C65405 / MLRS Reduced Range Practice Rockets (RRPR) | P-5a, P-21 | | | 46,293 / 282.364 | 2,214 / 20.964 | 2,982 / 27.555 | 3,270 / 30.836 | - / - | 3,270 / 30.836 |
| P-40 | Total Gross/Weapon System Cost | | | | 46,293 / 282.364 | 2,214 / 20.964 | 2,982 / 27.555 | 3,270 / 30.836 | - / - | 3,270 / 30.836 |
| <small>*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.</small> | | | | | | | | | | |

Justification:
 FY2021 Base procurement dollars in the amount of \$30.836 million support the procurement of 3,270 LCRRPRs which are required to maintain the practice rocket inventory for Standards in Training Commission (STRC) requirements.

In FY 2021, \$0.326 million in Reimbursable Manpower for this line has been realigned from Reimbursable Civilian Funding to Direct Operations and Maintenance. Program support costs have been accurately updated to reflect the realignments

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

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | Date: February 2020 | | | | | | |
|--|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | P-1 Line Item Number / Title: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | Item Number / Title [DODIC]: C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | |
| Resource Summary | | | | Prior Years | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | | | |
| Procurement Quantity <i>(Units in Each)</i> | | | | 46,293 | | 2,214 | | 2,982 | | 3,270 | | - | | 3,270 | | | | |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | | | | 282.364 | | 20.964 | | 27.555 | | 30.836 | | - | | 30.836 | | | | |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | | | | 282.364 | | 20.964 | | 27.555 | | 30.836 | | - | | 30.836 | | | | |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Total Obligation Authority <i>(\$ in Millions)</i> | | | | 282.364 | | 20.964 | | 27.555 | | 30.836 | | - | | 30.836 | | | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | | | | 6.099 | | 9.469 | | 9.240 | | 9.430 | | - | | 9.430 | | | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | 4.692 | 46,293 | 217.210 | 7.524 | 2,214 | 16.659 | 7.494 | 2,982 | 22.348 | 7.694 | 3,270 | 25.158 | - | - | - | 7.694 | 3,270 | 25.158 |
| Warheads Govt Furnished Equip (GFE) | - | - | 24.692 | - | - | 1.906 | - | - | 2.617 | - | - | 2.954 | - | - | - | - | - | 2.954 |
| Production Verification Testing | - | - | 3.720 | - | - | 0.075 | - | - | 0.077 | - | - | 0.079 | - | - | - | - | - | 0.079 |
| First Destination Transportation | - | - | 1.375 | - | - | 0.145 | - | - | 0.199 | - | - | 0.224 | - | - | - | - | - | 0.224 |
| Production Engineering Support | - | - | 17.571 | - | - | 1.595 | - | - | 1.719 | - | - | 1.807 | - | - | - | - | - | 1.807 |
| Subtotal: Recurring Cost | - | - | 264.568 | - | - | 20.380 | - | - | 26.960 | - | - | 30.222 | - | - | - | - | - | 30.222 |
| Subtotal: Flyaway Cost | - | - | 264.568 | - | - | 20.380 | - | - | 26.960 | - | - | 30.222 | - | - | - | - | - | 30.222 |
| Support - Production Engineering Cost | | | | | | | | | | | | | | | | | | |
| Production Engineering | - | - | 6.279 | - | - | 0.495 | - | - | 0.505 | - | - | 0.520 | - | - | - | - | - | 0.520 |
| Subtotal: Support - Production Engineering Cost | - | - | 6.279 | - | - | 0.495 | - | - | 0.505 | - | - | 0.520 | - | - | - | - | - | 0.520 |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 11.518 | - | - | 0.089 | - | - | 0.091 | - | - | 0.094 | - | - | - | - | - | 0.094 |

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| | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | P-1 Line Item Number / Title: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | Item Number / Title [DODIC]: C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | | |

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

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

| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Subtotal: Support - Program Management Cost | - | - | 11.518 | - | - | 0.089 | - | - | 0.091 | - | - | 0.094 | - | - | - | - | - | 0.094 |
| Gross/Weapon System Cost | 6.099 | 46,293 | 282.364 | 9.469 | 2,214 | 20.964 | 9.240 | 2,982 | 27.555 | 9.430 | 3,270 | 30.836 | - | - | - | 9.430 | 3,270 | 30.836 |

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|-------------------------------|----------------------------|---------|---------|--------------|-------------|---------------|
| Army | Quantity | 1,554 | 2,088 | 2,286 | - | 2,286 |
| | Total Obligation Authority | 14.715 | 19.294 | 21.597 | - | 21.597 |
| ANG | Quantity | 660 | 894 | 984 | - | 984 |
| | Total Obligation Authority | 6.249 | 8.261 | 9.239 | - | 9.239 |
| Total: Secondary Distribution | Quantity | 2,214 | 2,982 | 3,270 | - | 3,270 |
| | Total Obligation Authority | 20.964 | 27.555 | 30.836 | - | 30.836 |

(t) 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: 2032A / 02 / 30 | | | P-1 Line Item Number / Title: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | Item Number / Title [DODIC]: C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | |
| Cost Elements | O C 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 |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2016 | Lockheed Martin / Dallas, TX | SS / FPIF | AMCOM,RSA,AL | May 2016 | May 2017 | 3,954 | 7.060 | Y | | Feb 2016 |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2016 | Letterkenny Munitions Center / Chambersburg, PA | MIPR | LEMC, PA | Jan 2017 | Feb 2017 | 276 | 5.650 | Y | | |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2017 | Lockheed Martin / Dallas, TX | SS / FPIF | AMCOM,RSA,AL | May 2017 | Jul 2018 | 1,362 | 8.660 | Y | | Feb 2016 |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2017 | Letterkenny Munitions Center / Chambersburg, PA | MIPR | LEMC, PA | Mar 2018 | Apr 2018 | 342 | 5.850 | Y | | |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2018 | Lockheed Martin / Dallas, TX | SS / FPIF | AMCOM,RSA,AL | Apr 2018 | Aug 2019 | 3,078 | 8.770 | Y | | Feb 2017 |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2018 | Letterkenny Munitions Center / Chambersburg, PA | MIPR | LEMC, PA | Mar 2019 | Apr 2019 | 342 | 5.920 | Y | | |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2019 | Lockheed Martin / Dallas, TX | SS / FPIF | AMCOM,RSA,AL | Mar 2019 | Aug 2020 | 1,542 | 8.900 | Y | | Feb 2018 |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2019 | Letterkenny Munitions Center / Chambersburg, PA | MIPR | LEMC, PA | Feb 2019 | Apr 2020 | 672 | 6.040 | Y | | |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2020 | Lockheed Martin / Dallas, TX | SS / FPIF | AMCOM,RSA,AL | Mar 2020 | Aug 2021 | 1,446 | 9.080 | Y | | Feb 2019 |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2020 | Letterkenny Munitions Center / Chambersburg, PA | MIPR | LEMC, PA | Mar 2020 | Apr 2021 | 1,536 | 6.160 | Y | | |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2021 | Lockheed Martin / Dallas, TX | SS / FPIF | AMCOM, RSA, AL | Mar 2021 | Aug 2022 | 1,577 | 9.260 | Y | | Feb 2020 |
| Reduced Range Practice Rocket (LCRRPR) ^(†) | | 2021 | Letterkenny Munitions Center / Chambersburg, PA | MIPR | LEMC, PA | Mar 2021 | Apr 2022 | 1,693 | 6.280 | Y | | |
| <p>^(†) indicates the presence of a P-21</p> <p>Remarks: Lockheed Martin is currently the industry source that is both facilitized and qualified to produce the Low Cost Reduced Range Practice Rocket (LCRRPR). Letterkenny Munitions Center (LEMC) has been established as the organic source that is both facilitized and qualified to produce the LCRRPR.</p> <p>Footnote: Letterkenny Munitions Center (LEMC) Rocket Motor Inspection System (RMIS) Return on Investment (ROI) - Yielded 16 Additional Pods in FY17 and FY18 not reflected in the P-Form.</p> <p>* SS (Sole Source) / FPIF (Fixed Price Incentive Firm) ** AMCOM (Aviation and Missile Command), RSA (Redstone Arsenal), AL</p> | | | | | | | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|------|-------------------|-------------|---|------------------------------|--|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-------|---------------------------------|-----|-----|-------|-------|----|----|---|---|-------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | P-1 Line Item Number / Title: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | | | | | | | | Item Number / Title [DODIC]: C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | | | | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | | B A L A N C E | | | | | | | | | |
| O C C O | M F R # | FY | SERVICE | PROC QTY | ACCEP T P R I O R T O 1 O C T 2015 | BAL DUE AS OF 1 OCT | | | | Calendar Year 2016 | | | | | | | | | | Calendar Year 2017 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | | | | | |
| Reduced Range Practice Rocket (LCRRPR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 36939 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 3,954 | 0 | 3,954 | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 329 | 329 | 329 | 330 | 330 | 2,307 | | | | | |
| | 1 | 2016 | MC ^(†) | 648 | 0 | 648 | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 54 | 54 | 54 | 54 | 54 | 378 | | | | | |
| | 1 | 2016 | Total | 4,602 | 0 | 4,602 | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 383 | 383 | 383 | 384 | 384 | 2,685 | | | | | | |
| | 2 | 2016 | ARMY | 276 | 0 | 276 | | | | | | | | | | | | | | | | A - | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 92 | | | |
| | 1 | 2017 | ARMY | 1,362 | 0 | 1,362 | | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,362 |
| | 1 | 2017 | MC ^(†) | 648 | 0 | 648 | | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 648 |
| | 1 | 2017 | Total | 2,010 | 0 | 2,010 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2,010 |
| | 2 | 2017 | ARMY | 342 | 0 | 342 | | | | | | | | | | | | | | | | | | | | | | | | | | 342 | | | | | | | | | | |
| | 1 | 2018 | ARMY | 3,078 | 0 | 3,078 | | | | | | | | | | | | | | | | | | | | | | | | | | 3,078 | | | | | | | | | | |
| | 1 | 2018 | MC ^(†) | 648 | 0 | 648 | | | | | | | | | | | | | | | | | | | | | | | | | | 648 | | | | | | | | | | |
| | 1 | 2018 | Total | 3,726 | 0 | 3,726 | | | | | | | | | | | | | | | | | | | | | | | | | | 3,726 | | | | | | | | | | |
| | 2 | 2018 | ARMY | 342 | 0 | 342 | | | | | | | | | | | | | | | | | | | | | | | | | | 342 | | | | | | | | | | |
| | 1 | 2019 | ARMY | 1,542 | 0 | 1,542 | | | | | | | | | | | | | | | | | | | | | | | | | | 1,542 | | | | | | | | | | |
| | 1 | 2019 | MC ^(†) | 648 | 0 | 648 | | | | | | | | | | | | | | | | | | | | | | | | | | 648 | | | | | | | | | | |
| | 1 | 2019 | Total | 2,190 | 0 | 2,190 | | | | | | | | | | | | | | | | | | | | | | | | | | 2,190 | | | | | | | | | | |
| | 2 | 2019 | ARMY | 672 | 0 | 672 | | | | | | | | | | | | | | | | | | | | | | | | | | 672 | | | | | | | | | | |
| | 1 | 2020 | ARMY | 1,446 | 0 | 1,446 | | | | | | | | | | | | | | | | | | | | | | | | | | 1,446 | | | | | | | | | | |
| | 1 | 2020 | MC ^(†) | 648 | 0 | 648 | | | | | | | | | | | | | | | | | | | | | | | | | | 648 | | | | | | | | | | |
| | 1 | 2020 | Total | 2,094 | 0 | 2,094 | | | | | | | | | | | | | | | | | | | | | | | | | | 2,094 | | | | | | | | | | |
| | 2 | 2020 | ARMY | 1,536 | 0 | 1,536 | | | | | | | | | | | | | | | | | | | | | | | | | | 1,536 | | | | | | | | | | |
| | 1 | 2021 | ARMY | 1,577 | 0 | 1,577 | | | | | | | | | | | | | | | | | | | | | | | | | | 1,577 | | | | | | | | | | |
| | 2 | 2021 | ARMY | 1,693 | 0 | 1,693 | | | | | | | | | | | | | | | | | | | | | | | | | | 1,693 | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|------|---------|----------|----------------------------|---------------------|------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|------------------|---|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|---------|----|-------|----|----|----|----|----|----|----|-----|---|-------|-------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | | | | | Item Number / Title [DODIC]: C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | | | | | | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | BALANCE | | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | | | | Calendar Year 2018 | | | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | | | | | | | | |
| Reduced Range Practice Rocket (LCRRPR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 36939 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 3,954 | 1,647 | 2,307 | 330 | 330 | 330 | 330 | 329 | 329 | 329 | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | |
| | 1 | 2016 | MC (+) | 648 | 270 | 378 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | |
| | 1 | 2016 | Total | 4,602 | 1,917 | 2,685 | 384 | 384 | 384 | 384 | 383 | 383 | 383 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | | | | | | | | | |
| | 2 | 2016 | ARMY | 276 | 184 | 92 | 23 | 23 | 23 | 23 | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 1,362 | 0 | 1,362 | - | - | - | - | - | - | - | - | 113 | 113 | 113 | 114 | 114 | 114 | 114 | 114 | 114 | 113 | 113 | 113 | | | | 0 | | | | | | | | | | | | | | |
| | 1 | 2017 | MC (+) | 648 | 0 | 648 | - | - | - | - | - | - | - | - | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | 0 | | | | | | | | | | | | | | |
| | 1 | 2017 | Total | 2,010 | 0 | 2,010 | - | - | - | - | - | - | - | - | 167 | 167 | 167 | 168 | 168 | 168 | 168 | 168 | 168 | 167 | 167 | 167 | - | - | - | 0 | | | | | | | | | | | | | | |
| | 2 | 2017 | ARMY | 342 | 0 | 342 | | | | | | A - | 28 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 28 | 28 | 28 | 28 | | | | | | | | 0 | | | | | | | | | | | | |
| | 1 | 2018 | ARMY | 3,078 | 0 | 3,078 | | | | | | A - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 256 | 256 | 2,566 | | | | | | | | | | | | | |
| | 1 | 2018 | MC (+) | 648 | 0 | 648 | | | | | | A - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 54 | 54 | 540 | | | | | | | | | | | | | |
| | 1 | 2018 | Total | 3,726 | 0 | 3,726 | | | | | | - | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 310 | 310 | 3,106 | | | | | | | | | | | | | |
| | 2 | 2018 | ARMY | 342 | 0 | 342 | | | | | | | | | | | | | | | | | | | | | | A - | 28 | 28 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 171 | | | |
| | 1 | 2019 | ARMY | 1,542 | 0 | 1,542 | | | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,542 | |
| | 1 | 2019 | MC (+) | 648 | 0 | 648 | | | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 648 |
| | 1 | 2019 | Total | 2,190 | 0 | 2,190 | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2,190 |
| | 2 | 2019 | ARMY | 672 | 0 | 672 | | | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 672 |
| | 1 | 2020 | ARMY | 1,446 | 0 | 1,446 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1,446 | | | | | | | | | | | |
| | 1 | 2020 | MC (+) | 648 | 0 | 648 | | | | | | | | | | | | | | | | | | | | | | | | | | | 648 | | | | | | | | | | | |
| | 1 | 2020 | Total | 2,094 | 0 | 2,094 | | | | | | | | | | | | | | | | | | | | | | | | | | | 2,094 | | | | | | | | | | | |
| | 2 | 2020 | ARMY | 1,536 | 0 | 1,536 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1,536 | | | | | | | | | | | |
| | 1 | 2021 | ARMY | 1,577 | 0 | 1,577 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1,577 | | | | | | | | | | | |
| | 2 | 2021 | ARMY | 1,693 | 0 | 1,693 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1,693 | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | | | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | |
|---|------------------|------|---------|-------------|--|------------------------------|------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|--------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------------|---|---|---|-------|-------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | | | | | | | Item Number / Title [DODIC]: C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2020 | | | | | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | | B A L A N C E | | | | | |
| O C C # | M F R # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | | | | Calendar Year 2020 | | | | | | | | | | | Calendar Year 2021 | | | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | |
| Reduced Range Practice Rocket (LCRRPR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 36939 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 3,954 | 3,954 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2016 | MC (+) | 648 | 648 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2016 | Total | 4,602 | 4,602 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | | |
| | 2 | 2016 | ARMY | 276 | 276 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2017 | ARMY | 1,362 | 1,362 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2017 | MC (+) | 648 | 648 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2017 | Total | 2,010 | 2,010 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | | |
| | 2 | 2017 | ARMY | 342 | 342 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2018 | ARMY | 3,078 | 512 | 2,566 | 256 | 257 | 257 | 257 | 257 | 257 | 257 | 256 | 256 | 256 | | | | | | | | | | | | | | | | 0 | | | | |
| | 1 | 2018 | MC (+) | 648 | 108 | 540 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | | | | | | | | | | | | | | 0 | | | | |
| | 1 | 2018 | Total | 3,726 | 620 | 3,106 | 310 | 311 | 311 | 311 | 311 | 311 | 311 | 310 | 310 | 310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | | | |
| | 2 | 2018 | ARMY | 342 | 171 | 171 | 29 | 29 | 29 | 28 | 28 | 28 | | | | | | | | | | | | | | | | | | | 0 | | | | | |
| | 1 | 2019 | ARMY | 1,542 | 0 | 1,542 | - | - | - | - | - | - | - | - | - | 129 | 129 | 129 | 129 | 129 | 128 | 128 | 128 | 128 | 128 | 128 | 129 | | | 0 | | | | | | |
| | 1 | 2019 | MC (+) | 648 | 0 | 648 | - | - | - | - | - | - | - | - | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | - | - | | | 0 | | | | | | |
| | 1 | 2019 | Total | 2,190 | 0 | 2,190 | - | - | - | - | - | - | - | - | 54 | 54 | 183 | 183 | 183 | 183 | 183 | 182 | 182 | 182 | 182 | 182 | 128 | 129 | - | - | 0 | | | | | |
| | 2 | 2019 | ARMY | 672 | 0 | 672 | - | - | - | - | - | - | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | | | | | | | | | | | 0 | | |
| | 1 | 2020 | ARMY | 1,446 | 0 | 1,446 | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 120 | 121 | 1,205 | | | | | |
| | 1 | 2020 | MC (+) | 648 | 0 | 648 | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | 54 | 54 | 54 | 54 | 54 | 378 | | | | | |
| | 1 | 2020 | Total | 2,094 | 0 | 2,094 | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 54 | 54 | 54 | 174 | 175 | 1,583 | | | | | |
| | 2 | 2020 | ARMY | 1,536 | 0 | 1,536 | | | | | | A | - | - | - | - | - | - | - | - | - | - | - | - | - | 128 | 128 | 128 | 128 | 128 | 768 | | | | | |
| | 1 | 2021 | ARMY | 1,577 | 0 | 1,577 | | | | | | | | | | | | | | | | | | | A | - | - | - | - | - | - | - | - | - | 1,577 | |
| | 2 | 2021 | ARMY | 1,693 | 0 | 1,693 | | | | | | | | | | | | | | | | | | | A | - | - | - | - | - | - | - | - | - | - | 1,693 |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | |
|---|------|------|---------|----------|----------------------------|---------------------|------------------|-----|-----|--|-----|-----|-----|-----|-----|-----|------------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|---|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | | | | | Item Number / Title [DODIC]: C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2022 | | | | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | | BALANCE | | | |
| OCO | MFR# | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2021 | BAL DUE AS OF 1 OCT | | | | Calendar Year 2022 | | | | | | | | | | Calendar Year 2023 | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | | SEP | | |
| Reduced Range Practice Rocket (LCRRPR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 36939 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 3,954 | 3,954 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2016 | MC (+) | 648 | 648 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2016 | Total | 4,602 | 4,602 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 2 | 2016 | ARMY | 276 | 276 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2017 | ARMY | 1,362 | 1,362 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2017 | MC (+) | 648 | 648 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2017 | Total | 2,010 | 2,010 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 2 | 2017 | ARMY | 342 | 342 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2018 | ARMY | 3,078 | 3,078 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2018 | MC (+) | 648 | 648 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2018 | Total | 3,726 | 3,726 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 2 | 2018 | ARMY | 342 | 342 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2019 | ARMY | 1,542 | 1,542 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2019 | MC (+) | 648 | 648 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2019 | Total | 2,190 | 2,190 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 2 | 2019 | ARMY | 672 | 672 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2020 | ARMY | 1,446 | 241 | 1,205 | 121 | 121 | 121 | 121 | 121 | 120 | 120 | 120 | 120 | 120 | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2020 | MC (+) | 648 | 270 | 378 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | - | - | - | | | | | | | | | | | | | | | | 0 | |
| | 1 | 2020 | Total | 2,094 | 511 | 1,583 | 175 | 175 | 175 | 175 | 175 | 174 | 174 | 120 | 120 | 120 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 2 | 2020 | ARMY | 1,536 | 768 | 768 | 128 | 128 | 128 | 128 | 128 | | | | | | | | | | | | | | | | | | | | 0 | | |
| | 1 | 2021 | ARMY | 1,577 | 0 | 1,577 | - | - | - | - | - | - | - | - | - | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 125 | | 0 | | | |
| | 2 | 2021 | ARMY | 1,693 | 0 | 1,693 | - | - | - | - | - | - | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 142 | | | | | | | | 0 | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | Date: February 2020 | | | | | |
|---|---|--------------------------------|----------------|--------------|--|-----------------|-------------------|-------------------|---------------------|---|-------------------|-------------------|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | P-1 Line Item Number / Title: 6060C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | | Item Number / Title [DODIC]: C65405 / MLRS Reduced Range Practice Rockets (RRPR) | | | | |
| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | | | |
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | Initial | | | | Reorder | | | | | |
| | | | | | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | | |
| 1 | Lockheed Martin - Dallas, TX | 504 | 9,216 | 11,520 | 0 | 4 | 16 | 20 | 0 | 4 | 16 | 20 | | |
| 2 | Letterkenny Munitions Center - Chambersburg, PA | 504 | 1,500 | 1,968 | 0 | 2 | 12 | 14 | 0 | 4 | 12 | 16 | | |
| <p>Remarks:</p> <p>There are no production gaps during months that Low Cost Reduced Range Practice Rockets (LCRRPRs) are not being produced as Guided Multiple Launch Rocket System (GMLRS) Rocket production continues. Continued production of LCRRPRs at Camden, Arkansas mitigates shared production costs with GMLRS and Army Tactical Missile System (ATACMS). The plans are to relocate LCRRPR production to M33 resulting in LCRRPRs no longer sharing a production line with GMLRS.</p> <p>(‡) 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.</p> <p>"A" in the Delivery Schedule indicates the Contract Award Date.</p> <p>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).</p> | | | | | | | | | | | | | | |

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|--|-----------------------------------|----------------|---|---------------------|--------------------|----------------------|---|---|----------------|----------------------------|--------------------|------------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | | P-1 Line Item Number / Title: 6200C02901 / High Mobility Artillery Rocket System (HIMARS) | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | | | Other Related Program Elements: 0210608A, 0603778A | | | | |
| Line Item MDAP/MAIS Code: 367 | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | 411 | 17 | - | 5 | - | 5 | 11 | 5 | - | - | - | 449 |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 1,861.090 | 171.138 | - | 41.226 | - | 41.226 | 88.979 | 41.228 | - | - | - | 2,203.661 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 1,861.090 | 171.138 | - | 41.226 | - | 41.226 | 88.979 | 41.228 | - | - | - | 2,203.661 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 1,861.090 | 171.138 | - | 41.226 | - | 41.226 | 88.979 | 41.228 | - | - | - | 2,203.661 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 4,528.200 | 10,066.941 | - | 8,245.200 | - | 8,245.200 | 8,089.000 | 8,245.600 | - | - | - | 4,907.931 |
| Description: The M142 High Mobility Artillery Rocket System (HIMARS) launcher is a full spectrum, combat proven, all weather, 24/7 lethal and responsive, precision strike weapon system. HIMARS provides critical missile precision strike, operational shaping fires, counter-fire, and close support destructive and suppressive fires. HIMARS is a C-130 or C-17 transportable, wheeled, indirect fire, rocket/missile launcher capable of firing one pod of precision rockets/missiles from the current and future Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM), to include the Guided Multiple Launch Rocket System-Unitary (GMLRS-U), GMLRS Alternative Warhead, the Army Tactical Missile System (ATACMS) and future MFOM to include the Extended Range (ER) GMLRS, and the Precision Strike Missile (PrSM). In FY2017, the Army directed the program office to produce additional HIMARS launchers in an effort called HIMARS Fleet Expansion. Army Acquisition Objective (AAO) is 363 HIMARS launchers. HIMARS Fleet Expansion will increase the Army Acquisition Objective to 425, but may be increased contingent on Army requirements. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | 17 | - | 5 | - | 5 | 11 | 5 | - | - | - | - |
| | Total Obligation Authority | 171.138 | - | 41.226 | - | 41.226 | 88.979 | 41.228 | - | - | - | - |
| Total: Secondary Distribution | Quantity | 17 | - | 5 | - | 5 | 11 | 5 | - | - | - | - |
| | Total Obligation Authority | 171.138 | - | 41.226 | - | 41.226 | 88.979 | 41.228 | - | - | - | - |

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | Date: February 2020 | | | |
|---|---------------------------------------|-------------|---|----------------|--|---|--|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | P-1 Line Item Number / Title: 6200C02901 / High Mobility Artillery Rocket System (HIMARS) | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0210608A, 0603778A | | | | |
| Line Item MDAP/MAIS Code: 367 | | | | | | | | | | |
| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C03000 / HIMARS LAUNCHER | | | | 411 / 1,861.090 | 17 / 171.138 | - / - | 5 / 41.226 | - / - | 5 / 41.226 |
| P-40 | Total Gross/Weapon System Cost | | | | 411 / 1,861.090 | 17 / 171.138 | - / - | 5 / 41.226 | - / - | 5 / 41.226 |
| *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:
 FY2021 Base procurement dollars in the amount of \$41.226 million supports the procurement of 5 M142 HIMARS launchers and associated equipment. This is an increase of \$41.266 million from PB2020. This increase reflects a change in Army priorities to buy more HIMARS launchers. Obsolescence with the Universal Fire Control System (UFCS) required the program office to make a lifetime buy of UFCS in FY2019 to support FY2021 and future launchers. This decreases the unit cost per launcher since the UFCS is not included in the FY2021-2023 costs. With projected FMS sales, cost savings realized from economies of scale decreases the overall estimated unit price for FY2021. The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to support additional HIMARS launchers and Fleet Expansion.

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

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | Date: February 2020 | | | | | | |
|--|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | P-1 Line Item Number / Title: 6200C02901 / High Mobility Artillery Rocket System (HIMARS) | | | | | | Item Number / Title [DODIC]: C03000 / HIMARS LAUNCHER | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | |
| Resource Summary | | | | Prior Years | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | | | |
| Procurement Quantity <i>(Units in Each)</i> | | | | 411 | | 17 | | - | | 5 | | - | | 5 | | | | |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | | | | 1,861.090 | | 171.138 | | - | | 41.226 | | - | | 41.226 | | | | |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | | | | 1,861.090 | | 171.138 | | - | | 41.226 | | - | | 41.226 | | | | |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Total Obligation Authority <i>(\$ in Millions)</i> | | | | 1,861.090 | | 171.138 | | - | | 41.226 | | - | | 41.226 | | | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | - | | |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | | | | 4,528.200 | | 10,066.941 | | - | | 8,245.200 | | - | | 8,245.200 | | | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Launcher | 2,865.681 | 411 | 1,177.795 | 7,609.353 | 17 | 129.359 | - | - | - | 4,244.800 | 5 | 21.224 | - | - | - | 4,244.800 | 5 | 21.224 |
| Carrier | - | - | 189.532 | 597.625 | 24 | 14.343 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 1,367.327 | - | - | 143.702 | - | - | - | - | - | 21.224 | - | - | - | - | - | 21.224 |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| European Deterrence Initiative Production Restart - Obsolescence Mitigation | - | - | 74.400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 74.400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Flyaway Cost | - | - | 1,441.727 | - | - | 143.702 | - | - | - | - | - | 21.224 | - | - | - | - | - | 21.224 |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | 69.479 | - | - | 6.049 | - | - | - | - | - | 2.856 | - | - | - | - | - | 2.856 |
| Subtotal: Support - Fielding Cost | - | - | 69.479 | - | - | 6.049 | - | - | - | - | - | 2.856 | - | - | - | - | - | 2.856 |
| Support - Operational/Site Activation Cost | | | | | | | | | | | | | | | | | | |
| System Assembly, Installation and Checkout on Site | - | - | 28.410 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Operational/Site Activation Cost | - | - | 28.410 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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|--|---------------------|----------------------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|-----------------|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | Date: February 2020 | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | P-1 Line Item Number / Title: 6200C02901 / High Mobility Artillery Rocket System (HIMARS) | | | | | | Item Number / Title [DODIC]: C03000 / HIMARS LAUNCHER | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | | MDAP/MAIS Code: | | | | | | | |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. | | | | | | | | | | | | | | | | | | |
| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Support - Peculiar Support Equipment Cost | | | | | | | | | | | | | | | | | | |
| Support and Handling Equipment | - | - | 38.237 | - | - | 1.070 | - | - | - | - | - | 2.131 | - | - | - | - | - | 2.131 |
| Subtotal: Support - Peculiar Support Equipment Cost | - | - | 38.237 | - | - | 1.070 | - | - | - | - | - | 2.131 | - | - | - | - | - | 2.131 |
| Support - Production Engineering Cost | | | | | | | | | | | | | | | | | | |
| Production Engineering | - | - | 103.257 | - | - | 11.399 | - | - | - | - | - | 9.992 | - | - | - | - | - | 9.992 |
| Subtotal: Support - Production Engineering Cost | - | - | 103.257 | - | - | 11.399 | - | - | - | - | - | 9.992 | - | - | - | - | - | 9.992 |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 22.856 | - | - | 1.267 | - | - | - | - | - | 3.238 | - | - | - | - | - | 3.238 |
| Subtotal: Support - Program Management Cost | - | - | 22.856 | - | - | 1.267 | - | - | - | - | - | 3.238 | - | - | - | - | - | 3.238 |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | 124.587 | - | - | 6.259 | - | - | - | - | - | 1.455 | - | - | - | - | - | 1.455 |
| Subtotal: Support - System Engineering Cost | - | - | 124.587 | - | - | 6.259 | - | - | - | - | - | 1.455 | - | - | - | - | - | 1.455 |
| Support - System Test and Evaluation Cost | | | | | | | | | | | | | | | | | | |
| Test and Evaluation Support | - | - | 32.537 | - | - | 1.392 | - | - | - | - | - | 0.330 | - | - | - | - | - | 0.330 |
| Subtotal: Support - System Test and Evaluation Cost | - | - | 32.537 | - | - | 1.392 | - | - | - | - | - | 0.330 | - | - | - | - | - | 0.330 |
| Gross/Weapon System Cost | 4,528.200 | 411 | 1,861.090 | 10,066.941 | 17 | 171.138 | - | - | - | 8,245.200 | 5 | 41.226 | - | - | - | 8,245.200 | 5 | 41.226 |
| | | | | | | | | | | | | | | | | | | |
| Secondary Distribution | | | | | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | | | |
| Army | | Quantity | | | | 17 | | - | | 5 | | - | | 5 | | | | |
| | | Total Obligation Authority | | | | 171.138 | | - | | 41.226 | | - | | 41.226 | | | | |
| Total: Secondary Distribution | | Quantity | | | | 17 | | - | | 5 | | - | | 5 | | | | |
| | | Total Obligation Authority | | | | 171.138 | | - | | 41.226 | | - | | 41.226 | | | | |
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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | | P-1 Line Item Number / Title: 6472C98510 / ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0203802A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | 1,279 | 0 | 232 | - | - | - | - | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 1,266.402 | - | 300.783 | - | - | - | - | - | - | - | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | 75.067 | - | - | - | - | - | - | - | - | - | - | 75.067 |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 1,191.335 | - | 300.783 | - | - | - | - | - | - | - | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | 75.067 | - | - | - | - | - | - | - | - | - | - | 75.067 |
| Total Obligation Authority (<i>\$ in Millions</i>) | 1,266.402 | - | 300.783 | - | - | - | - | - | - | - | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 990.150 | - | 1,296.478 | - | - | - | - | - | - | - | Continuing | Continuing |
| Description: | | | | | | | | | | | | |
| NOTE: All funds for this program were previously included in CA6700 ATACMS Mods in support of New Missiles. | | | | | | | | | | | | |
| There is no funding for FY 2021. | | | | | | | | | | | | |
| Army Tactical Missile System (ATACMS) is the United States (U.S.) Army's primary 24/7, all weather, and surface-to-surface artillery precision missile used by current and future Combatant Commanders to shape the battlefield with long-range fires against hard and soft stationary targets in open, complex, and urban environments. The missile provides the Combatant Commanders with a 24/7 all-weather 300 kilometers (km) long-range fires capability to attack high-payoff, time-sensitive targets without placing aircraft and crews at risk. It's precision accuracy, along with the absence of potential duds and reduced lethal radii, mitigate the warfighter's collateral damage concerns against hard and soft targets in complex and urban environments. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | - | 232 | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | - | 300.783 | - | - | - | - | - | - | - | - | |
| Total: Secondary Distribution | Quantity | - | 232 | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | - | 300.783 | - | - | - | - | - | - | - | - | |
| Justification: | | | | | | | | | | | | |
| There is no funding for FY 2021. | | | | | | | | | | | | |
| Procurement dollars moved from ATACMS Mods (1823CA6700) funding line. | | | | | | | | | | | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | Date: February 2020 |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | P-1 Line Item Number / Title: 6472C98510 / ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM |
| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0203802A |
| Line Item MDAP/MAIS Code: N/A | | |
| <p>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.</p> <p>This program supports the Long Range Precision Fires Cross Functional Team (CFT), ATACMS BLK 1A (C98501).</p> | | |

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|---|-----------------------------------|----------------|---|---------------------|--------------------|----------------------|---|---|----------------|----------------------------|--------------------|----------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | | | P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | | | Other Related Program Elements: 0203802A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity <i>(Units in Each)</i> | 859 | 1,225 | 1,130 | - | 1,130 | 1,130 | - | - | - | - | - | 4,344 |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | 78.427 | 104.973 | 83.300 | - | 84.993 | 84.993 | - | - | - | - | - | 351.693 |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | 78.427 | 104.973 | 83.300 | - | 84.993 | 84.993 | - | - | - | - | - | 351.693 |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority <i>(\$ in Millions)</i> | 78.427 | 104.973 | 83.300 | - | 84.993 | 84.993 | - | - | - | - | - | 351.693 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost <i>(\$ in Thousands)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | 91.300 | 85.692 | 73.717 | - | 75.215 | 75.215 | - | - | - | - | - | 80.961 |
| Description: Lethal Miniature Aerial Missile System (LMAMS) is a single man-portable/operable, light-weight organic, beyond line-of-sight, precision guided, loitering aerial missile system capable of locating and engaging obscured and/or fleeting enemy targets who otherwise cannot be engaged by typical direct fire weapon systems. Front and Side Look High Resolution Electro-Optical (day) and Front Look Infrared (night) cameras allow the Warfighter to have eyes on the target for positive identification. LMAMS Wave-Off capability allows the operator to wave-off or re-direct the LMAMS flight path prior to impact, if necessary. The system is comprised of a fire control unit, launcher, missile, and a modular payload capable of high lethality against unprotected Combatant Personnel and producing casualties against Personnel in Soft Skinned Vehicles. LMAMS has the ability to be employed in less than two minutes. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | 1,225 | 1,130 | - | 1,130 | 1,130 | - | - | - | - | - | |
| | Total Obligation Authority | 104.973 | 83.300 | - | 84.993 | 84.993 | - | - | - | - | - | |
| Total: Secondary Distribution | Quantity | 1,225 | 1,130 | - | 1,130 | 1,130 | - | - | - | - | - | |
| | Total Obligation Authority | 104.973 | 83.300 | - | 84.993 | 84.993 | - | - | - | - | - | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/ Assault Missile Sys | | | | | P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0203802A | | | |
| 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 | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | P-5a, P-21 | | | 859 / 78.427 | 1,225 / 104.973 | 1,130 / 83.300 | - / - | 1,130 / 84.993 | 1,130 / 84.993 |
| P-40 | Total Gross/Weapon System Cost | | | | 859 / 78.427 | 1,225 / 104.973 | 1,130 / 83.300 | - / - | 1,130 / 84.993 | 1,130 / 84.993 |

*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:

LMAMS capability is required to fulfill JUONs and maintain asset inventory in support of Joint Urgent Operational Need CC-0556, AC-0008, AF-0009, Operational Need Statement 17-22331, and other emerging urgent requirements.

FY2021 OCO procurement dollars in the amount of \$84.993 million procures 1130 All Up Rounds (AUR), 38 Fire Control Units, 7 Multi-Pack Launchers, 190 Inert Training Rounds, 38 Training Simulators, and supporting equipment.

The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to increase the Army procurement of LMAMS missiles and/or to mitigate safety and obsolescence issues.

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|--|---------------------|---------------|----------------------|---------------------|---------------|--|---------------------|---------------|----------------------|---------------------|---------------------|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | | | Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | |
| Resource Summary | | | | Prior Years | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | | | |
| Procurement Quantity <i>(Units in Each)</i> | | | | 859 | | 1,225 | | 1,130 | | - | | 1,130 | | 1,130 | | | | |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | | | | 78.427 | | 104.973 | | 83.300 | | - | | 84.993 | | 84.993 | | | | |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | | | | 78.427 | | 104.973 | | 83.300 | | - | | 84.993 | | 84.993 | | | | |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Total Obligation Authority <i>(\$ in Millions)</i> | | | | 78.427 | | 104.973 | | 83.300 | | - | | 84.993 | | 84.993 | | | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | | | | - | | - | | - | | - | | - | | - | | | | |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | | | | 91.300 | | 85.692 | | 73.717 | | - | | 75.215 | | 75.215 | | | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| All Up Rounds ^(†) | 48.155 | 889 | 42.810 | 54.877 | 1,225 | 67.224 | 57.398 | 1,130 | 64.860 | - | - | - | 56.926 | 1,130 | 64.326 | 56.926 | 1,130 | 64.326 |
| Inert Training Missiles | 49.409 | 320 | 15.811 | 44.255 | 200 | 8.851 | 44.458 | 190 | 8.447 | - | - | - | 39.837 | 190 | 7.569 | 39.837 | 190 | 7.569 |
| Training Simulators | 25.410 | 39 | 0.991 | 25.175 | 40 | 1.007 | 25.000 | 38 | 0.950 | - | - | - | 26.105 | 38 | 0.992 | 26.105 | 38 | 0.992 |
| Multi-Pack Launcher | - | - | - | 81.000 | 10 | 0.810 | 81.000 | 7 | 0.567 | - | - | - | 67.857 | 7 | 0.475 | 67.857 | 7 | 0.475 |
| Training Support Equipment | - | - | 2.330 | - | - | 0.465 | - | - | 1.514 | - | - | - | - | - | 2.051 | - | - | 2.051 |
| Fielding | - | - | 8.725 | - | - | 16.268 | - | - | 3.358 | - | - | - | - | - | 1.087 | - | - | 1.087 |
| Fire Control Units | 24.824 | 51 | 1.266 | 24.700 | 40 | 0.988 | 25.316 | 38 | 0.962 | - | - | - | 23.289 | 38 | 0.885 | 23.289 | 38 | 0.885 |
| Subtotal: Recurring Cost | - | - | 71.933 | - | - | 95.613 | - | - | 80.658 | - | - | - | - | - | 77.385 | - | - | 77.385 |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Qualify Second Source | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.447 | - | - | 5.447 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.447 | - | - | 5.447 |
| Subtotal: Flyaway Cost | - | - | 71.933 | - | - | 95.613 | - | - | 80.658 | - | - | - | - | - | 82.832 | - | - | 82.832 |
| Support - Acceptance Testing Cost | | | | | | | | | | | | | | | | | | |
| Acceptance Test | - | - | 1.266 | - | - | 4.653 | - | - | 0.799 | - | - | - | - | - | 0.250 | - | - | 0.250 |
| Subtotal: Support - Acceptance Testing Cost | - | - | 1.266 | - | - | 4.653 | - | - | 0.799 | - | - | - | - | - | 0.250 | - | - | 0.250 |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | | Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | | | | |

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

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

| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Government Management | - | - | 5.228 | - | - | 4.707 | - | - | 1.843 | - | - | - | - | - | 1.911 | - | - | 1.911 |
| <i>Subtotal: Support - Program Management Cost</i> | - | - | 5.228 | - | - | 4.707 | - | - | 1.843 | - | - | - | - | - | 1.911 | - | - | 1.911 |
| Gross/Weapon System Cost | 91.300 | 859 | 78.427 | 85.692 | 1,225 | 104.973 | 73.717 | 1,130 | 83.300 | - | - | - | 75.215 | 1,130 | 84.993 | 75.215 | 1,130 | 84.993 |

Remarks:

Non-Recurring Cost is to qualify Second Source for the LMAMS System.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|--------------------------------------|-----------------------------------|----------------|---------------|--------------|---------------|---------------|
| Army | Quantity | 1,225 | 1,130 | - | 1,130 | 1,130 |
| | Total Obligation Authority | 104.973 | 83.300 | - | 84.993 | 84.993 |
| Total: Secondary Distribution | Quantity | 1,225 | 1,130 | - | 1,130 | 1,130 |
| | Total Obligation Authority | 104.973 | 83.300 | - | 84.993 | 84.993 |

(t) 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: 2032A / 02 / 30 | | | | P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | | Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | |
| Cost Elements | O C 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 |
| All Up Rounds ^(†) | ✓ | 2019 | AeroVironment / Simi Valley, CA | SS / FFP | AMCOM, Redstone Arsenal, AL | Jun 2020 | Mar 2021 | 1,225 | 57.358 | Y | | |
| All Up Rounds ^(†) | ✓ | 2020 | AeroVironment / Simi Valley, CA | SS / FFP | AMCOM, Redstone Arsenal, AL | Jun 2020 | Mar 2021 | 1,130 | 57.398 | Y | | |
| All Up Rounds ^(†) | ✓ | 2021 | AeroVironment / Simi Valley, CA | SS / FFP | AMCOM, Redstone Arsenal, AL | Mar 2021 | Mar 2022 | 1,130 | 56.926 | Y | | |

^(†) indicates the presence of a P-21

Remarks:
10 U.S. Code #2431 and DoD Financial Mgt Reg
Vol 2B, Ch4 mandate Production Rates be
defined in terms of ""budget year. ""

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|---|------------------|------|---------|-------------|--|------------------------------|--------------------|-------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------------|--------------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-----|-----|-----|-----|---------------------------------|-----|-----|-----|---|---|---|---|-------|
| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | | | | | | | | | | | Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | | | | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | | | B A L A N C E | | | | | | | | |
| O C O | M F R # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | Calendar Year 2020 | | | | | | | | | | | | | | Calendar Year 2021 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | | | | | | |
| All Up Rounds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 889 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ | 1 | 2019 | ARMY | 1,225 | 0 | 1,225 | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 504 | | | | | |
| ✓ | 1 | 2020 | ARMY | 1,130 | 0 | 1,130 | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 465 | | | | | |
| ✓ | 1 | 2021 | ARMY | 1,130 | 0 | 1,130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | 1,130 |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | | | | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | | | | | | | P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | | | | | | | Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | | | | | | | | | | |
| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | | B A L A N C E |
| O C O | M F R # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2021 | BAL DUE AS OF 1 OCT | Calendar Year 2022 | | | | | | Calendar Year 2023 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | |
| All Up Rounds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 889 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ | 1 | 2019 | ARMY | 1,225 | 721 | 504 | 103 | 103 | 103 | 103 | 92 | | | | | | | | | | | | | | | | | | | | | 0 | |
| ✓ | 1 | 2020 | ARMY | 1,130 | 665 | 465 | 95 | 95 | 95 | 95 | 85 | | | | | | | | | | | | | | | | | | | | | 0 | |
| ✓ | 1 | 2021 | ARMY | 1,130 | 0 | 1,130 | - | - | - | - | - | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 85 | | | | | | | | | 0 | |
| | | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | |

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| Exhibit P-21, Production Schedule: PB 2021 Army | | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 02 / 30 | | | | P-1 Line Item Number / Title: 6870C88001 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | Item Number / Title [DODIC]: C88022 / LETHAL MINIATURE AERIAL MISSILE SYSTEM (LMAMS) | | | | |
| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | Initial | | | | Reorder | | | |
| | | | | | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | AeroVironment - Simi Valley, CA | 600 | 1,500 | 3,000 | 1 | 1 | 5 | 6 | 1 | 1 | 5 | 6 |
| <p>Remarks: Since All Up Rounds are delivered in response to JUONS, neither MSR nor MAX apply to LMAMS.</p> <p>"A" in the Delivery Schedule indicates the Contract Award Date.</p> <p>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).</p> | | | | | | | | | | | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0607865A | | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 4,162.964 | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 4,162.964 | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 4,162.964 | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 46,774.876 | 8,506.000 | 14,669.263 | 27,805.000 | - | 27,805.000 | - | - | - | - | Continuing | Continuing |
| <p>Description: Note: Starting in FY21, funds realigned from PE C50016, System Integration and Test Procurement.</p> <p>The PATRIOT Mods program implements critical capability, readiness and sustainability modifications to the weapon system and maintains Integrated Logistics Support. Required modifications are identified through various means to include: validated requirement documents such as the Capability Production Document (CPD), Capabilities Development Document (CDD), and the Operational Needs Statement (ONS); material changes supported by improved operational effectiveness as identified in the PATRIOT Product Improvement Program (PIP); material deficiencies identified in the field; obsolescence issues; emerging technologies; software improvements related to warfighter machine and crew interface requirements and communication upgrades.</p> <p>PATRIOT Mods funding supports International Engineering Services Program (IESP); Integrated Logistics Support (ILS); US Unique Engineering Services (ES); System Engineering Program Management (SEPM) activities; Reliability, Availability, and Maintainability (RAM) Mods; Recapitalization (RECAP); Dismounted Patriot Information Coordination Central (DPICC); Battery Command Post/ Tactical Command System /Computer Software Module (BCP/TCS/CSM) Mod; the Radar Digital Processor-Configuration (RDP-C) upgrade; PATRIOT Maintenance Trainer (PMT); PATRIOT Multi-Echelon Training (PMET); Assured Positioning, Navigation, and Timing (PNT); Test Detachment; Enhanced Launcher Electronic Systems (ELES); SIPRNet/NIPRNet Access Point/Troposcatter (SNAP/TROPO); Digital Sidelobe Cancellor (DSLCC); Command Obsolescence Alleviation; 35th Brigade Modification Kits and ADI TPX 57 Obsolescence; MAP/RDP Encryption Compliance; IFF Antenna Redesign; Communications Obsolescence Upgrade; and Report Rocket Classification.</p> <p>IESP is an international cost share program which allows the current 16 FMS partners to contribute toward common, non-RDTE engineering activities required to sustain PATRIOT capability. This cost share program structure is at a ratio of 2:1 FMS dollars to USD investment. Consolidated funds provide essential engineering services toward enhancing PATRIOT fleet readiness for both the United States Army and International partners. Significant cost avoidance is achieved by sharing expenses that would otherwise be fully funded by the United States to achieve the same result.</p> <p>RAM modifications provide resolution to field failures which are identified through component analysis, field data collection, obsolescence issues and emerging technologies which are prioritized based on readiness and Operations and Support (O&S) impacts. This effort includes the engineering, acquisition, qualification testing, installation, technical support and training device upgrades associated with modification and design changes which are essential to stabilize the system at the highest readiness posture available and reduction of O&S. Kit quantity is based on expected Engineering Change Proposals (ECPs) to be applied to Major End Items (MEIs). Quantities will be procured at an optimized rate utilizing price advantage created through contract negotiation, other service procurement, and/or foreign military sales into a buy-to-budget procurement strategy.</p> | | | | | | | | | | | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | Date: February 2020 |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods |
| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0607865A |
| Line Item MDAP/MAIS Code: N/A | | |
| <p>Recapitalization (RECAP) Modifications include critical upgrades including but not limited to: Family of Medium Tactical Vehicles (FMTV), and Depot Maintenance Plant Equipment (DMPE), Harmonic Generator Kits, Post Deployment Build 8 (PDB-8) S/W & H/W, Cryptographic Modernization Kits, Modern Man Station (MMS), Antenna Mast Group (AMG) Cable upgrades, Electronic Power Plant (EPP) C3 Power Distribution Unit (PDU) kits, Information and Coordination Central (ICC) External Time Reference (ETR) kits, and Cooling Liquid Electron Tube (CLET) kits. These modifications are synchronized within the RECAP program. RECAP is a battalion set, resulting in a more supportable, reliable, and capable unit in the force. Quantity represents 1 battalion a year.</p> <p>Dismounted Patriot Information Coordination Central (DPICC) effort rehosts tactical Patriot software maintained via engineering services to a smaller, portable hardware configuration that will allow flexible, tailorable deployment options by freeing up Battalion level ICC's.</p> <p>The Battery Command Post/Tactical Command System/Computer Software Module (BCP/TCS/CSM) effort continues the development of the Capabilities Development Document (CDD) required Battle Management, Command, Control, Communications, Computers, and Intelligence (BMC4I) capability to maintain compatibility with tactical software enhancements, while enhancing and improving the defense design and planning capabilities for the PATRIOT warfighter. This includes systems engineering, software requirements, software design/code/test and independent validation and verification testing. This effort also provides Integrated Logistics Support, required due to the large amount of Commercial Off The Shelf components, of the 62 Battery Command Posts and 17 Tactical Command Systems. Additionally, this effort supports the BCP/TCS/CSM fielding upgrades for each PATRIOT Post Deployment Build updates. Note: Quantities procured and installed in prior years.</p> <p>Patriot Multi-Echelon Training (PMET), Reconfigurable Table Top Trainer (RT3): The PATRIOT Weapons System uses tactical equipment and training aids, devices, simulators, and simulations (TADSS) to conduct multi-level training for both operators and maintenance personnel. This includes both hardware devices and software programs utilized to include; the Patriot Maintenance Trainer (PMT), Reconfigurable Table Top Trainer (RT3) and the Patriot Multi-Echelon Training (PMET). The PMT is a new device being developed and planned for fielding to the Air Defense Artillery Schools at Fort Sill, OK. The PMT trains 14E, 140E, 14T, 94S and 948D 6D tasks. It reduces dependency on tactical equipment by merging physical simulators and virtual simulations replicating a realistic training environment. The PMT will have one instructor station, one radar set, one launching station, and an engagement control station. Some components will be actual physical representations of the tactical hardware while other components will be virtually simulated using state of the art gaming technology of P-MET. The two environments will work seamlessly together to simulate the tactical end items. P-MET is a Microsoft Windows based software application utilizing state of the art gaming technology to train U.S. Army personnel in the proper trouble-shooting techniques to repair and maintain the PATRIOT Missile System. P-MET is the Life Cycle Replacement for the PATRIOT Intermediate Maintenance Institutional Trainer (PIMIT) for Intermediate Maintenance training but is also used for Organizational, NET, and even Depot maintenance training. P-MET is used in an institutional, field and depot environment. P-MET is designed and developed to operate on the RT3. The RT3 provides a flexible training platform that may be configured to support multiple training levels and systems, via removable hard drives. In PATRIOT the RT3 is used to run the PATRIOT tactical embedded training software (re-hosted tactical training software, PATRIOT Conduct of Fire Trainer (PCOFT)) for operations tasks, the P-MET software for maintenance tasks, and the PATRIOT Skills Library (PSL) lessons for both maintenance and operator tasks. Other weapon systems may also use the RT3 platform for training (i.e., C-RAM, THAAD, and JLENS). The RT3 is a Life Cycle Replacement for the PCOFT and the PATRIOT Intermediate Maintenance Institutional Trainer (PIMIT) hardware platforms.</p> <p>SIPRNet/NIPRNet Access Point/Troposcatter (SNAP/TROPO). The SNAP/TROPO program provides units with an organic Beyond Line of Sight (BLOS) capability and completes the 94 AAMDC UMR requirement to support both intra battalion and external battalion communications. Troposcatter terminals allow connectivity between PATRIOT shelters when local terrain or long distances make organic Ultra High Frequency (UHF) Line of Sight (LOS) communications impossible to support fire control quality data exchanges. SNAP terminals allow a PATRIOT shelter without access to any local infrastructure to remotely connect to both SIPRnet and NIPRnet using Ku, Ka, or X band satellites for range extension in response to Operational Need Statements from combatant commands.</p> <p>Command Obsolescence Alleviation supports updates for interoperability and supportability by working obsolescence alleviation and engineering changes.</p> <p>Communications Obsolescence: Task is to replace obsolete PATRIOT communications equipment that is no longer supportable, with modern communications equipment for four PATRIOT Battalions. The fielded PATRIOT communications architecture utilizes obsolete serial technology that is no longer producible or repairable. This process requires modernization at battalion (BN) level to prevent breaking intra-BN communications, addresses the BN specific architecture to facilitate modern external and external communications. These measures will provide an interim solution until transition to AIAMD system architecture is achieved.</p> <p>The Radar Digital Processor-Configuration (RDP-C) replaces obsolete digital processors with single rack commercial off-the-shelf based modern processors. Battery Replaceable Units (BRUs) are reduced from 759 to 56 with 13 power supplies and 18 racks removed. Benefits of the RDP-C include improvement in radar reliability, life cycle cost savings, and capability and growth potential through software</p> | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0607865A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | |
| <p>improvements. The RDP-C modification will enable full AN/TPX-57(v)1 Identification Friend or Foe (IFF) Mode 5 Level 1 and 2 and new Combat Identification capabilities. The enhanced IFF capability allows for expanded target reports from the AN/TPX-57 which will include: National Origin, Platform ID Number (PIN), and GPS position (Level 2). The RDP-C is a prerequisite for migration to an IAMD Netted Sensor. The RDP-C will support efforts to counter emerging threats and growth to the netted sensor concept. This effort includes funding for continued obsolescence mitigation (such as Digital Exciter), kits, and some spares.</p> <p>Digital Sidelobe Canceller (DSLCL) is an Electronic Counter Measures (ECM) technique used to cancel the interference that is entering the radar via the antenna sidelobes. This is currently being performed using analog hardware in the PATRIOT radar. DSLCL replaces the analog hardware and performs this task digitally in the radars processor. Benefits of the DSLCL include improved Side Lobe Canceller (SLC) Reliability and Maintainability, removal of complicated SLC adjustments, improves radar availability, removes 5 SLC Racks, provides hardware base for improved capability, and eliminates known and future obsolescence in SLC racks.</p> <p>MAP/RDP Encryption Compliance: The operating systems in Modernized Adjunct Processor (MAP) and Radar Digital Processor (RDP) require upgrade and DoD level certification of the encryption algorithms that protect the contained Critical Program Information.</p> <p>IFF Antenna Redesign: IFF antenna elements are not supportable. Upgrade circa 1970's design with new technology to mitigate obsolescence, reduce costs, and improve reliability.</p> <p>Report Rocket Classification: The modern Air and Missile Defense environment contains a wide variety and large quantities of TBM and rocket threats. This task provides situational awareness for operators and allows for greater efficiency in management of interceptor inventories in the complex AMD environment.</p> <p>The Enhanced Launcher Electronics System (ELES) modification upgrades a PAC-2 Launcher to a PAC-3 Capability. In addition to the ELES modification kit, last time procurement of obsolete components, and obsolescence mitigation (such as Data Link eXTensible- PATRIOT Fiber Optic Modem(DLX-P)) will occur to support the assured producibility of the ELES.</p> | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0607865A | | | | |
| 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 | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | C50700 / Patriot Mods (Various) | | | | - / 4,162.964 | - / 323.228 | - / 278.716 | - / 278.050 | - / - | - / 278.050 |
| P-40 | Total Gross/Weapon System Cost | | | | - / 4,162.964 | - / 323.228 | - / 278.716 | - / 278.050 | - / - | - / 278.050 |
| Exhibits Schedule | | | | | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | C50700 / Patriot Mods (Various) | | | | - / 223.174 | - / 232.559 | - / 168.392 | - / 178.539 | Continuing | Continuing |
| P-40 | Total Gross/Weapon System Cost | | | | - / 223.174 | - / 232.559 | - / 168.392 | - / 178.539 | 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:
 FY2021 procurement dollars in the amount of \$278.050 million support the modifications for Reliability, Availability, and Maintainability Modifications (RAM Mods), Recapitalization (RECAP), Battery Command Post/ Tactical Command System/ Computer Software Module (BCP/TCS/CSM), Enhanced Launcher Electronics System (ELES), SIPRNet/NIPRNet Access Point/Troposcatter (SNAP/TROPO), PATRIOT Multi-Echelon Training (PMET), IFF Antenna Redesign, MAP/RDP Encryption, Report Rocket Classification, Communications Obsolescence, the IESP, system engineering, program management, and logistics support.

PATRIOT Mods supports and facilitates enhanced capabilities and integration into the Integrated Air and Missile Defense (IAMD) architecture.

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | Modification Number / Title: C50700 / Patriot Mods | | | |

| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | MDAP/MAIS Code: | | | | | |
|---|-------------|-----------|------------|--------------|-------------|---------------|-----------------|---------|---------|---------|-------------|------------|
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity <i>(Units in Each)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | 4,162.964 | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 | Continuing | Continuing |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | 4,162.964 | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 | Continuing | Continuing |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority <i>(\$ in Millions)</i> | 4,162.964 | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | 46,774.876 | 8,506.000 | 14,669.263 | 27,805.000 | - | 27,805.000 | - | - | - | - | Continuing | Continuing |

Description:

The PATRIOT weapon system modernization program implements modifications to the weapon system and maintains Integrated Logistics Support. Required modifications are identified through various means, including the following: validated requirements documents such as Capability Production Documents and Operational Needs Statements; material changes identified in the PATRIOT Product Improvement Program (PIP); material deficiencies identified in the field; obsolescence issues; emerging technologies; software improvements; crew interface and communications upgrades.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|---|----------------------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | | Modification Number / Title: C50700 / Patriot Mods | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | MDAP/MAIS Code: | | | | | | |
| Models of Systems Affected: Various | | | | Modification Type: Various | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | |
| Procurement | | | | | | | | | | | | | |
| Modification Item 1 of 25: Dismounted Information Coordination Central | | | | | | | | | | | | | |
| B Kits | | | | | | | | | | | | | |
| Non-Recurring | | | | | | | | | | | | | |
| Dismounted Information Coordination Cent | | 1 / 10.000 | 1 / 10.000 | 1 / 10.346 | - / - | - / - | - / - | - / - | - / - | - / - | Continuing | Continuing | |
| Subtotal: Non-Recurring | | 1 / 10.000 | 1 / 10.000 | 1 / 10.346 | - / - | - / - | - / - | - / - | - / - | - / - | Continuing | Continuing | |
| Subtotal: Dismounted Information Coordination Central | | 1 / 10.000 | 1 / 10.000 | 1 / 10.346 | - / - | - / - | - / - | - / - | - / - | - / - | Continuing | Continuing | |
| Modification Item 2 of 25: RAM Mods | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Kit Quantity | | 6,693 / 686.816 | 126 / 20.791 | 144 / 24.573 | 153 / 23.519 | - / - | 153 / 23.519 | 146 / 18.286 | 141 / 19.738 | 140 / 17.577 | 138 / 17.371 | Continuing | Continuing |
| Training | | - / 90.259 | - / 15.749 | - / 16.650 | - / 16.656 | - / - | - / 16.656 | - / 16.294 | - / 17.419 | - / 17.620 | - / 17.425 | Continuing | Continuing |
| Training Equipment | | - / 29.427 | - / 3.151 | - / 3.331 | - / 3.332 | - / - | - / 3.332 | - / 3.460 | - / 3.485 | - / 4.000 | - / 3.956 | Continuing | Continuing |
| Support Equipment | | - / 54.215 | - / 8.189 | - / 8.657 | - / 8.661 | - / - | - / 8.661 | - / 8.993 | - / 9.058 | - / 9.085 | - / 8.985 | Continuing | Continuing |
| Fielding Support and NET | | - / 96.120 | - / 13.860 | - / 14.652 | - / 14.658 | - / - | - / 14.658 | - / 14.719 | - / 15.329 | - / 15.500 | - / 15.329 | Continuing | Continuing |
| Integrated Logistics Support | | - / 12.028 | - / 1.260 | - / 1.332 | - / 1.332 | - / - | - / 1.332 | - / 1.383 | - / 1.393 | - / 1.400 | - / 1.384 | Continuing | Continuing |
| Subtotal: Recurring | | 6,693 / 968.865 | 126 / 63.000 | 144 / 69.195 | 153 / 68.158 | - / - | 153 / 68.158 | 146 / 63.135 | 141 / 66.422 | 140 / 65.182 | 138 / 64.450 | Continuing | Continuing |
| Subtotal: RAM Mods | | 6,693 / 968.865 | 126 / 63.000 | 144 / 69.195 | 153 / 68.158 | - / - | 153 / 68.158 | 146 / 63.135 | 141 / 66.422 | 140 / 65.182 | 138 / 64.450 | Continuing | Continuing |
| Modification Item 3 of 25: Recapitalization | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Kit Quantity | | 15 / 246.400 | 1 / 13.100 | 1 / 14.101 | 1 / 14.104 | - / - | 1 / 14.104 | 1 / 14.300 | 1 / 14.300 | 1 / 12.300 | 1 / 12.744 | Continuing | Continuing |
| Integrated Logistics Support | | - / 18.958 | - / 1.100 | - / 1.100 | - / 1.100 | - / - | - / 1.100 | - / 1.200 | - / 1.200 | - / 1.200 | - / 1.200 | Continuing | Continuing |
| Subtotal: Recurring | | 15 / 265.358 | 1 / 14.200 | 1 / 15.201 | 1 / 15.204 | - / - | 1 / 15.204 | 1 / 15.500 | 1 / 15.500 | 1 / 13.500 | 1 / 13.944 | Continuing | Continuing |
| Subtotal: Recapitalization | | 15 / 265.358 | 1 / 14.200 | 1 / 15.201 | 1 / 15.204 | - / - | 1 / 15.204 | 1 / 15.500 | 1 / 15.500 | 1 / 13.500 | 1 / 13.944 | Continuing | Continuing |
| Modification Item 4 of 25: BCP/TCS/CSM | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Engineering Change Orders | | - / 3.615 | - / 0.770 | - / 0.770 | - / 0.770 | - / - | - / 0.770 | - / 0.770 | - / 0.770 | - / 0.770 | - / 0.770 | Continuing | Continuing |
| Fielding Support | | - / 5.939 | - / 0.980 | - / 0.980 | - / 0.980 | - / - | - / 0.980 | - / 0.980 | - / 0.980 | - / 0.980 | - / 0.980 | Continuing | Continuing |
| Obsolescence/Tech Refresh | | - / 1.293 | - / 0.280 | - / 0.280 | - / 0.280 | - / - | - / 0.280 | - / 0.280 | - / 0.280 | - / 0.280 | - / 0.280 | Continuing | Continuing |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | Date: February 2020 | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | Modification Number / Title: C50700 / Patriot Mods | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | MDAP/MAIS Code: | | | | | | |
| Models of Systems Affected: Various | | | | Modification Type: Various | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | |
| Software/Systems Engineering | - / 31.010 | - / 0.980 | - / 0.980 | - / 0.980 | - / - | - / 0.980 | - / 0.980 | - / 0.980 | - / 0.980 | - / 0.980 | Continuing | Continuing | |
| Integrated Logistics Support | - / 50.190 | - / 3.990 | - / 3.990 | - / 3.990 | - / - | - / 3.990 | - / 3.990 | - / 3.990 | - / 2.990 | - / 3.990 | Continuing | Continuing | |
| Subtotal: Recurring | - / 92.047 | - / 7.000 | - / 7.000 | - / 7.000 | - / - | - / 7.000 | - / 7.000 | - / 7.000 | - / 6.000 | - / 7.000 | Continuing | Continuing | |
| Non-Recurring | | | | | | | | | | | | | |
| BCP Kit Quantity | 62 / 29.435 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 62 / 29.435 | |
| TCS Kit Quantity | 17 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 17 / 0.000 | |
| Subtotal: Non-Recurring | 79 / 29.435 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 79 / 29.435 | |
| Subtotal: BCP/TCS/CSM | 79 / 121.482 | - / 7.000 | - / 7.000 | - / 7.000 | - / - | - / 7.000 | - / 7.000 | - / 7.000 | - / 6.000 | - / 7.000 | Continuing | Continuing | |
| Modification Item 5 of 25: Combined Crypto Modification Phase I (CCMPI) | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Kit Quantity | 150 / 48.970 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 150 / 48.970 | |
| Kit Quantity (GFE) | - / 1.072 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 1.072 | |
| Subtotal: Recurring | 150 / 50.042 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 150 / 50.042 | |
| Non-Recurring | | | | | | | | | | | | | |
| Training | - / 0.396 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 0.396 | |
| Subtotal: Non-Recurring | - / 0.396 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 0.396 | |
| Subtotal: Combined Crypto Modification Phase I (CCMPI) | 150 / 50.438 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 150 / 50.438 | |
| Modification Item 6 of 25: Radar Digital Processor - Configuration (RDP-C) | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Kit Quantity | 80 / 240.766 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 80 / 240.766 | |
| Fielding | - / 12.000 | - / 2.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 14.000 | |
| Support Equipment | - / 36.942 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 36.942 | |
| Subtotal: Recurring | 80 / 289.708 | - / 2.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 80 / 291.708 | |
| Subtotal: Radar Digital Processor - Configuration (RDP-C) | 80 / 289.708 | - / 2.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 80 / 291.708 | |
| Modification Item 7 of 25: Air Defense Artillery School Upgrades/ TADSS | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | Modification Number / Title: C50700 / Patriot Mods | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | MDAP/MAIS Code: | | | | | |
| Models of Systems Affected: Various | | | Modification Type: Various | | | | | Related RDT&E PEs: | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) |
| Recurring | | | | | | | | | | | | |
| Radar Kit Quantity | 4 / 96.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 4 / 96.000 |
| Subtotal: Recurring | 4 / 96.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 4 / 96.000 |
| Subtotal: Air Defense Artillery School Upgrades/ TADSS | 4 / 96.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 4 / 96.000 |
| Modification Item 8 of 25: Modern Manstation (MMS) | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Fielding | - / 7.825 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 7.825 |
| Support Equipment | - / 56.567 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 56.567 |
| Subtotal: Recurring | - / 64.392 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 64.392 |
| Non-Recurring | | | | | | | | | | | | |
| Kit Quantity | 82 / 55.842 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 82 / 55.842 |
| Subtotal: Non-Recurring | 82 / 55.842 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 82 / 55.842 |
| Subtotal: Modern Manstation (MMS) | 82 / 120.234 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 82 / 120.234 |
| Modification Item 9 of 25: Enhanced Launcher Electronics System (ELES) | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Kit Quantity | 308 / 353.927 | 38 / 145.278 | 19 / 73.191 | 10 / 40.717 | - / - | 10 / 40.717 | - / - | - / - | - / - | - / - | - / - | 375 / 613.113 |
| Subtotal: Recurring | 308 / 353.927 | 38 / 145.278 | 19 / 73.191 | 10 / 40.717 | - / - | 10 / 40.717 | - / - | - / - | - / - | - / - | - / - | 375 / 613.113 |
| Subtotal: Enhanced Launcher Electronics System (ELES) | 308 / 353.927 | 38 / 145.278 | 19 / 73.191 | 10 / 40.717 | - / - | 10 / 40.717 | - / - | - / - | - / - | - / - | - / - | 375 / 613.113 |
| Modification Item 10 of 25: SNAP/TROPO | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Kit Quantity SNAP | 6 / 0.830 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 6 / 0.830 |
| Support | - / 5.811 | - / 1.115 | - / 1.115 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 8.041 |
| Integrated Logistics Support | - / 2.727 | - / 0.633 | - / 0.633 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 3.993 |
| Training | - / 0.171 | - / 0.002 | - / 0.002 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 0.175 |
| Equipment | - / 0.859 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 0.859 |
| Subtotal: Recurring | 6 / 10.398 | - / 1.750 | - / 1.750 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 6 / 13.898 |
| Non-Recurring | | | | | | | | | | | | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | Modification Number / Title: C50700 / Patriot Mods | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | MDAP/MAIS Code: | | | | | |
| Models of Systems Affected: Various | | | | Modification Type: Various | | | | Related RDT&E PEs: | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) |
| Kit Quantity TROPO | 26 / 12.884 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 26 / 12.884 |
| Subtotal: Non-Recurring | 26 / 12.884 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 26 / 12.884 |
| Subtotal: SNAP/TROPO | 32 / 23.282 | - / 1.750 | - / 1.750 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 32 / 26.782 |
| Modification Item 11 of 25: PATRIOT Maintenance Trainer (PMT) | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Kit Quantity | 5 / 72.941 | 1 / 15.000 | 1 / 19.500 | - / - | - / - | - / - | - / - | - / 8.000 | - / 8.000 | - / 8.000 | Continuing | Continuing |
| Subtotal: Recurring | 5 / 72.941 | 1 / 15.000 | 1 / 19.500 | - / - | - / - | - / - | - / - | - / 8.000 | - / 8.000 | - / 8.000 | Continuing | Continuing |
| Non-Recurring | | | | | | | | | | | | |
| Training Support | - / 4.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 4.000 |
| Subtotal: Non-Recurring | - / 4.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 4.000 |
| Subtotal: PATRIOT Maintenance Trainer (PMT) | 5 / 76.941 | 1 / 15.000 | 1 / 19.500 | - / - | - / - | - / - | - / - | - / 8.000 | - / 8.000 | - / 8.000 | Continuing | Continuing |
| Modification Item 12 of 25: PATRIOT Multi-Echelon Training (PMET) | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Kit Quantity | 16 / 21.180 | 4 / 5.000 | 4 / 7.000 | 4 / 7.000 | - / - | 4 / 7.000 | 4 / 7.000 | 4 / 7.000 | 4 / 7.000 | 4 / 7.210 | Continuing | Continuing |
| Subtotal: Recurring | 16 / 21.180 | 4 / 5.000 | 4 / 7.000 | 4 / 7.000 | - / - | 4 / 7.000 | 4 / 7.000 | 4 / 7.000 | 4 / 7.000 | 4 / 7.210 | Continuing | Continuing |
| Subtotal: PATRIOT Multi-Echelon Training (PMET) | 16 / 21.180 | 4 / 5.000 | 4 / 7.000 | 4 / 7.000 | - / - | 4 / 7.000 | 4 / 7.000 | 4 / 7.000 | 4 / 7.000 | 4 / 7.210 | Continuing | Continuing |
| Modification Item 13 of 25: Reconfigurable Table Top Trainers (RT3) | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Kit Quantity | 489 / 31.338 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 489 / 31.338 |
| Subtotal: Recurring | 489 / 31.338 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 489 / 31.338 |
| Subtotal: Reconfigurable Table Top Trainers (RT3) | 489 / 31.338 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 489 / 31.338 |
| Modification Item 14 of 25: Assured PNT | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Hardware Integration | 798 / 3.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 798 / 3.000 |
| Subtotal: Recurring | 798 / 3.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 798 / 3.000 |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | Date: February 2020 | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | Modification Number / Title: C50700 / Patriot Mods | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | MDAP/MAIS Code: | | | | | | |
| Models of Systems Affected: Various | | | Modification Type: Various | | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | |
| Subtotal: Assured PNT | 798 / 3.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 798 / 3.000 | |
| Modification Item 15 of 25: Test Detachment | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Equipment | 1 / 56.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 1 / 56.000 | |
| Subtotal: Recurring | 1 / 56.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 1 / 56.000 | |
| Subtotal: Test Detachment | 1 / 56.000 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 1 / 56.000 | |
| Modification Item 16 of 25: Digital Sidelobe Cancellor (DSLC) | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Kit Quantity | 43 / 96.154 | 28 / 56.800 | 10 / 27.428 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 81 / 180.382 | |
| Subtotal: Recurring | 43 / 96.154 | 28 / 56.800 | 10 / 27.428 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 81 / 180.382 | |
| Subtotal: Digital Sidelobe Cancellor (DSLC) | 43 / 96.154 | 28 / 56.800 | 10 / 27.428 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 81 / 180.382 | |
| Modification Item 17 of 25: Command Obsolescence Alleviation | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Command Obsolescnece Alleviation | - / 5.000 | - / 2.000 | - / 1.989 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 8.989 | |
| Subtotal: Recurring | - / 5.000 | - / 2.000 | - / 1.989 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 8.989 | |
| Subtotal: Command Obsolescence Alleviation | - / 5.000 | - / 2.000 | - / 1.989 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 8.989 | |
| Modification Item 18 of 25: Communications Obsolescence | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Kits | - / - | - / - | 1 / 20.906 | 1 / 30.684 | - / - | 1 / 30.684 | 2 / 35.678 | 1 / 29.000 | - / - | - / 9.225 | Continuing | Continuing | |
| Subtotal: Recurring | - / - | - / - | 1 / 20.906 | 1 / 30.684 | - / - | 1 / 30.684 | 2 / 35.678 | 1 / 29.000 | - / - | - / 9.225 | Continuing | Continuing | |
| Subtotal: Communications Obsolescence | - / - | - / - | 1 / 20.906 | 1 / 30.684 | - / - | 1 / 30.684 | 2 / 35.678 | 1 / 29.000 | - / - | - / 9.225 | Continuing | Continuing | |
| Modification Item 19 of 25: 35th Brigade Modification Kits | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Non-Recurring | | | | | | | | | | | | | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | Modification Number / Title: C50700 / Patriot Mods | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | MDAP/MAIS Code: | | | | | |
| Models of Systems Affected: Various | | | Modification Type: Various | | | | | Related RDT&E PEs: | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) |
| Modification Kits | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 56 / 15.200 | - / - | - / - | - / - | 56 / 15.200 |
| Subtotal: Non-Recurring | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 56 / 15.200 | - / - | - / - | - / - | 56 / 15.200 |
| Subtotal: 35th Brigade Modification Kits | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 56 / 15.200 | - / - | - / - | - / - | 56 / 15.200 |
| Modification Item 20 of 25: ADI TPX 57 Obsolescence | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Non-Recurring | | | | | | | | | | | | |
| ADI TPX | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 169 / 8.000 | - / - | - / - | - / - | 169 / 8.000 |
| Subtotal: Non-Recurring | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 169 / 8.000 | - / - | - / - | - / - | 169 / 8.000 |
| Subtotal: ADI TPX 57 Obsolescence | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 169 / 8.000 | - / - | - / - | - / - | 169 / 8.000 |
| Modification Item 21 of 25: MAP/RDP Encryption Compliance | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Non-Recurring | | | | | | | | | | | | |
| Certification | - / - | - / - | - / 11.999 | - / 11.996 | - / - | - / 11.996 | - / - | - / - | - / - | - / - | - / - | - / 23.995 |
| Subtotal: Non-Recurring | - / - | - / - | - / 11.999 | - / 11.996 | - / - | - / 11.996 | - / - | - / - | - / - | - / - | - / - | - / 23.995 |
| Subtotal: MAP/RDP Encryption Compliance | - / - | - / - | - / 11.999 | - / 11.996 | - / - | - / 11.996 | - / - | - / - | - / - | - / - | - / - | - / 23.995 |
| Modification Item 22 of 25: IFF Antenna Redesign | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Non-Recurring | | | | | | | | | | | | |
| Kits | - / - | - / - | 18 / 8.000 | 9 / 4.000 | - / - | 9 / 4.000 | - / - | - / - | - / - | - / - | - / - | 27 / 12.000 |
| Subtotal: Non-Recurring | - / - | - / - | 18 / 8.000 | 9 / 4.000 | - / - | 9 / 4.000 | - / - | - / - | - / - | - / - | - / - | 27 / 12.000 |
| Subtotal: IFF Antenna Redesign | - / - | - / - | 18 / 8.000 | 9 / 4.000 | - / - | 9 / 4.000 | - / - | - / - | - / - | - / - | - / - | 27 / 12.000 |
| Modification Item 23 of 25: Report Rocket Classification | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Non-Recurring | | | | | | | | | | | | |
| Kits | - / - | - / - | - / 4.011 | - / 6.000 | - / - | - / 6.000 | - / 6.000 | - / 8.000 | - / - | - / - | - / - | - / 24.011 |
| Subtotal: Non-Recurring | - / - | - / - | - / 4.011 | - / 6.000 | - / - | - / 6.000 | - / 6.000 | - / 8.000 | - / - | - / - | - / - | - / 24.011 |
| Subtotal: Report Rocket Classification | - / - | - / - | - / 4.011 | - / 6.000 | - / - | - / 6.000 | - / 6.000 | - / 8.000 | - / - | - / - | - / - | - / 24.011 |
| Modification Item 24 of 25: International Engineering Services Program (IESP) | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | Date: February 2020 | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | Modification Number / Title: C50700 / Patriot Mods | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | MDAP/MAIS Code: | | | | | | |
| Models of Systems Affected: Various | | | | Modification Type: Various | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | |
| Recurring | | | | | | | | | | | | | |
| International Engineering Services Prog | - / - | - / - | - / - | - / 59.000 | - / - | - / 59.000 | - / 60.000 | - / 40.000 | - / 40.410 | - / 40.410 | Continuing | Continuing | |
| Subtotal: Recurring | - / - | - / - | - / - | - / 59.000 | - / - | - / 59.000 | - / 60.000 | - / 40.000 | - / 40.410 | - / 40.410 | Continuing | Continuing | |
| Subtotal: International Engineering Services Program (IESP) | - / - | - / - | - / - | - / 59.000 | - / - | - / 59.000 | - / 60.000 | - / 40.000 | - / 40.410 | - / 40.410 | Continuing | Continuing | |
| Modification Item 25 of 25: Logistics Recurring | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Logistics Support | - / - | - / - | - / - | - / 27.091 | - / - | - / 27.091 | - / 27.561 | - / 27.137 | - / 27.000 | - / 27.000 | Continuing | Continuing | |
| Subtotal: Recurring | - / - | - / - | - / - | - / 27.091 | - / - | - / 27.091 | - / 27.561 | - / 27.137 | - / 27.000 | - / 27.000 | Continuing | Continuing | |
| Subtotal: Logistics Recurring | - / - | - / - | - / - | - / 27.091 | - / - | - / 27.091 | - / 27.561 | - / 27.137 | - / 27.000 | - / 27.000 | Continuing | Continuing | |
| Subtotal: Procurement, All Modification Items | 8,796 / 2,588.907 | 199 / 322.028 | 199 / 277.516 | 178 / 276.850 | - / - | 178 / 276.850 | 153 / 221.874 | 372 / 231.259 | 145 / 167.092 | 143 / 177.239 | Continuing | Continuing | |
| Installation | | | | | | | | | | | | | |
| Modification Item 2 of 25: RAM Mods | 6,654 / 151.613 | 130 / - | 137 / - | 149 / - | - / - | 149 / - | 149 / - | 144 / - | 140 / - | - / - | Continuing | Continuing | |
| Modification Item 3 of 25: Recapitalization | 15 / 227.830 | 1 / 1.200 | 1 / 1.200 | 1 / 1.200 | - / - | 1 / 1.200 | 1 / 1.300 | 1 / 1.300 | 1 / 1.300 | 1 / 1.300 | Continuing | Continuing | |
| Modification Item 4 of 25: BCP/TCS/CSM | 79 / 1,192.582 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | Continuing | Continuing | |
| Modification Item 5 of 25: Combined Crypto Modification Phase I (CCMPI) | 150 / 2.032 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | Continuing | Continuing | |
| Subtotal: Installation | 6,898 / 1,574.057 | 131 / 1.200 | 138 / 1.200 | 150 / 1.200 | - / - | 150 / 1.200 | 150 / 1.300 | 145 / 1.300 | 141 / 1.300 | 1 / 1.300 | Continuing | Continuing | |
| Total | | | | | | | | | | | | | |
| Total Cost (Procurement + Support + Installation) | 4,162.964 | 323.228 | 278.716 | 278.050 | - | 278.050 | 223.174 | 232.559 | 168.392 | 178.539 | Continuing | Continuing | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | MDAP/MAIS Code: | | |
| Modification Item 1 of 25: Dismounted Information Coordination Central | | | | | | | |
| 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): Engineering Services (Included in unit cost) | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | | | | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | | | | | | | Modification Number / Title: C50700 / Patriot Mods | | | | | | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | | | | | | | | | |
| Modification Item 2 of 25: RAM Mods | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Name: Raytheon | | | | | | | | | | | | | | | Manufacturer Location: Andover, MA | | | | | | | | | | | | | | | | |
| Administrative Leadtime (in Months): 2 | | | | | | | | | | | | | | | Production Leadtime (in Months): 14 | | | | | | | | | | | | | | | | |
| 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 | | Feb 2020 | | | | Feb 2021 | | | | Feb 2022 | | | | Feb 2023 | | | | Feb 2024 | | | | Feb 2025 | | | | Feb 2026 | | | | | |
| Installation Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method of Implementation: Lead Logistics Fielding Team (Included in unit cost) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation Cost | | Prior Years | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | FY 2022 | | FY 2023 | | FY 2024 | | FY 2025 | | To Complete | | Total | | | | | | | | |
| | | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | | | | | | | |
| Prior Years | | 6,654 / 151.613 | | 64 / 0.000 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | Continuing | | Continuing | | | | | | | |
| FY 2019 | | - / - | | 66 / 0.000 | | 65 / 0.000 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 131 / 0.000 | | | | | | | |
| FY 2020 | | - / - | | - / - | | 72 / 0.000 | | 72 / 0.000 | | - / - | | 72 / 0.000 | | - / - | | - / - | | - / - | | - / - | | - / - | | 144 / 0.000 | | | | | | | |
| FY 2021 | | - / - | | - / - | | - / - | | 77 / 0.000 | | - / - | | 77 / 0.000 | | 76 / 0.000 | | - / - | | - / - | | - / - | | - / - | | 153 / 0.000 | | | | | | | |
| FY 2022 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 73 / 0.000 | | 73 / 0.000 | | - / - | | - / - | | - / - | | 146 / 0.000 | | | | | | | |
| FY 2023 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 71 / 0.000 | | 70 / 0.000 | | - / - | | - / - | | 141 / 0.000 | | | | | | | |
| FY 2024 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 70 / 0.000 | | - / - | | - / - | | 70 / 0.000 | | | | | | | |
| FY 2025 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 70 / 0.000 | | 70 / 0.000 | | | | | | | |
| To Complete | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 6,535 / 0.000 | | 6,535 / 0.000 | | | | | | | |
| Total | | 6,654 / 151.613 | | 130 / 0.000 | | 137 / 0.000 | | 149 / 0.000 | | - / - | | 149 / 0.000 | | 149 / 0.000 | | 144 / 0.000 | | 140 / 0.000 | | - / - | | Continuing | | Continuing | | | | | | | |
| 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 | 6,792 | 32 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 41 | 41 | 40 | 40 | 37 | 36 | 36 | 36 | 37 | 37 | 37 | 35 | 35 | 35 | 36 | - | - | - | - | 6,614 | 14,254 |
| Out | 6,723 | 32 | 32 | 33 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 41 | 41 | 40 | 40 | 37 | 36 | 36 | 36 | 37 | 37 | 35 | 35 | 35 | 36 | - | - | - | - | 6,688 | 14,254 |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | | | | | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | | | | | | | | Modification Number / Title: C50700 / Patriot Mods | | | | | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | | | | | | | | | | | | | | |
| Modification Item 3 of 25: Recapitalization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Name: Various | | | | | | | | | | | | | Manufacturer Location: Various | | | | | | | | | | | | | | | | | | | |
| Administrative Leadtime (in Months): 6 | | | | | | | | | | | | | Production Leadtime (in Months): 12 | | | | | | | | | | | | | | | | | | | |
| Dates | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | FY 2023 | | | | FY 2024 | | | | FY 2025 | | | | | | | |
| Contract Dates | Apr 2019 | | | | Apr 2020 | | | | Apr 2021 | | | | Apr 2022 | | | | Apr 2023 | | | | Apr 2024 | | | | Apr 2025 | | | | | | | |
| Delivery Dates | Apr 2020 | | | | Apr 2021 | | | | Apr 2022 | | | | Apr 2023 | | | | Apr 2024 | | | | Apr 2025 | | | | Apr 2026 | | | | | | | |
| Installation Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method of Implementation: Depot, PM Office, contractor team (Included in unit cost) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation Cost | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | | | | | | | | | | | | | | | | | | | |
| | | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | | | | | | | | | | | | | | | | | | | |
| Prior Years | | 14 / 226.730 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| FY 2019 | | 1 / 1.100 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| FY 2020 | | - / - | 1 / 1.200 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| FY 2021 | | - / - | - / - | 1 / 1.200 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| FY 2022 | | - / - | - / - | - / - | 1 / 1.200 | - / - | 1 / 1.200 | - / - | - / - | - / - | - / - | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| FY 2023 | | - / - | - / - | - / - | - / - | - / - | - / - | 1 / 1.300 | - / - | - / - | - / - | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| FY 2024 | | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 1 / 1.300 | - / - | - / - | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| FY 2025 | | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 1 / 1.300 | - / - | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| To Complete | | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 1 / 1.300 | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| Total | | 15 / 227.830 | 1 / 1.200 | 1 / 1.200 | 1 / 1.200 | - / - | 1 / 1.200 | 1 / 1.300 | 1 / 1.300 | 1 / 1.300 | 1 / 1.300 | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| 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 | 15 | - | - | 1 | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | 11 | 32 | |
| Out | 14 | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 12 | 32 | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | | | | | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | | | | | | | | Modification Number / Title: C50700 / Patriot Mods | | | | | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | | | | | | | | | | | | | | |
| Modification Item 4 of 25: BCP/TCS/CSM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Name: Various | | | | | | | | | | | | | Manufacturer Location: Various | | | | | | | | | | | | | | | | | | | |
| 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: Various (Included in unit cost) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation Cost | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | | | | | | | | | | | | | | | | | | | |
| | | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | | | | | | | | | | | | | | | | | | | |
| Prior Years | | 79 / 1,192.582 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| FY 2019 | | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | | | | | | | | | | | | | | | | | | | |
| FY 2020 | | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | | | | | | | | | | | | | | | | | | | |
| FY 2021 | | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | | | | | | | | | | | | | | | | | | | |
| FY 2022 | | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | | | | | | | | | | | | | | | | | | | |
| FY 2023 | | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | | | | | | | | | | | | | | | | | | | |
| FY 2024 | | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | | | | | | | | | | | | | | | | | | | |
| FY 2025 | | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | | | | | | | | | | | | | | | | | | | |
| To Complete | | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | | | | | | | | | | | | | | | | | | | |
| Total | | 79 / 1,192.582 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | Continuing | Continuing | | | | | | | | | | | | | | | | | | | |
| 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 | 79 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 79 | |
| Out | 79 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 79 | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | | | | | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | | | | | | | | Modification Number / Title: C50700 / Patriot Mods | | | | | | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | | | | | | | | | |
| Modification Item 5 of 25: Combined Crypto Modification Phase I (CCMPI) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Name: OGA | | | | | | | | | | | | | | Manufacturer Location: N/A | | | | | | | | | | | | | | | | | |
| Administrative Leadtime (in Months): 3 | | | | | | | | | | | | | | Production Leadtime (in Months): 12 | | | | | | | | | | | | | | | | | |
| Dates | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | FY 2023 | | | | FY 2024 | | | | FY 2025 | | | | | |
| Contract Dates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delivery Dates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method of Implementation: LEAD Logistics Fielding Team (Included in unit cost) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation Cost | | Prior Years | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | FY 2022 | | FY 2023 | | FY 2024 | | FY 2025 | | To Complete | | Total | | | | | | | |
| | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | | | | | | |
| Prior Years | | 150 / 2.032 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | Continuing | | Continuing | | | | | |
| FY 2019 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| FY 2020 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| FY 2021 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| FY 2022 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| FY 2023 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| FY 2024 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| FY 2025 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| To Complete | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| Total | | 150 / 2.032 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | Continuing | | Continuing | | | | | |
| 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 | 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 150 |
| Out | 150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 150 |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | MDAP/MAIS Code: | | |
| Modification Item 6 of 25: Radar Digital Processor - Configuration (RDP-C) | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | | Manufacturer Location: Andover, MA | | |
| Administrative Leadtime (in Months): 8 | | | | | Production Leadtime (in Months): 20 | | |
| 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): Depot, PM Office, contractor team (Included in unit cost) | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 7 of 25: Air Defense Artillery School Upgrades/ TADSS | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: PM Office, contractor team | | | | Manufacturer Location: Various | | | |
| Administrative Leadtime (in Months): 6 | | | | Production Leadtime (in Months): 18 | | | |
| 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): PM fielding team | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 8 of 25: Modern Manstation (MMS) | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | Manufacturer Location: Andover, MA | | | |
| Administrative Leadtime (in Months): 6 | | | | Production Leadtime (in Months): 15 | | | |
| 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): Various (Included in unit cost) | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | MDAP/MAIS Code: | | |
| Modification Item 9 of 25: Enhanced Launcher Electronics System (ELES) | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Various | | | | Manufacturer Location: Various | | | |
| Administrative Leadtime (in Months): 3 | | | | Production Leadtime (in Months): 18 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Dec 2018 | Dec 2019 | Dec 2020 | | | | |
| Delivery Dates | Jun 2020 | Jun 2021 | Jun 2022 | | | | |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): Fielding Team (Included in unit cost) | | | | | Installation Quantity: 10 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 10 of 25: SNAP/TROPO | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: TeleCommunication Systems (TCS) | | | | Manufacturer Location: Tampa, FL | | | |
| Administrative Leadtime (in Months): 1 | | | | Production Leadtime (in Months): 9 | | | |
| 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): Depot, PM, contractor team | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 11 of 25: PATRIOT Maintenance Trainer (PMT) | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | Manufacturer Location: Tewksbury, MA | | | |
| Administrative Leadtime (in Months): 4 | | | | Production Leadtime (in Months): 4 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | | Feb 2020 | | | Feb 2023 | Feb 2024 | Feb 2025 |
| Delivery Dates | | Jun 2020 | | | Jun 2023 | Jun 2024 | Jun 2025 |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): PM Office, Contractor Team | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | MDAP/MAIS Code: | | |
| Modification Item 12 of 25: PATRIOT Multi-Echelon Training (PMET) | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | Manufacturer Location: Tewksbury, MA | | | |
| Administrative Leadtime (in Months): 4 | | | | Production Leadtime (in Months): 4 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Feb 2019 | Feb 2020 | Feb 2021 | Feb 2022 | Feb 2023 | Feb 2024 | Feb 2025 |
| Delivery Dates | May 2019 | May 2020 | May 2021 | May 2022 | May 2023 | May 2024 | May 2025 |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): PM Office, Contractor Team (Included in unit cost) | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 13 of 25: Reconfigurable Table Top Trainers (RT3) | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | Manufacturer Location: Tewksbury, MA | | | |
| Administrative Leadtime (in Months): 3 | | | | Production Leadtime (in Months): 9 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Dec 2018 | | | | | | |
| Delivery Dates | Oct 2019 | | | | | | |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): PM Office, Contractor Team (Included in unit cost) | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | MDAP/MAIS Code: | | |
| Modification Item 14 of 25: Assured PNT | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | Manufacturer Location: Tewksbury, MA | | | |
| Administrative Leadtime (in Months): 4 | | | | Production Leadtime (in Months): 14 | | | |
| 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): Logistics Fielding Team (Included in unit cost) | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | MDAP/MAIS Code: | | |
| Modification Item 15 of 25: Test Detachment | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Various | | | | Manufacturer Location: Various | | | |
| Administrative Leadtime (in Months): 4 | | | | 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): WSMR PM owned test bed personnel | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 16 of 25: Digital Sidelobe Cancellor (DSLCL) | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | Manufacturer Location: Tewksbury, MA | | | |
| Administrative Leadtime (in Months): 3 | | | | Production Leadtime (in Months): 18 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Jan 2019 | Jan 2020 | | | | | |
| Delivery Dates | Jul 2020 | Jul 2021 | | | | | |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): Depot, PM Office, Contractor Team (Included in unit cost) | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 17 of 25: Command Obsolescence Alleviation | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Various | | | | Manufacturer Location: Various | | | |
| Administrative Leadtime (in Months): 8 | | | | Production Leadtime (in Months): 5 | | | |
| 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): PM Office, Contractor Team (Included in unit cost) | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 18 of 25: Communications Obsolescence | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | Manufacturer Location: Andover, MA | | | |
| Administrative Leadtime (in Months): 3 | | | | Production Leadtime (in Months): 5 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | | Jan 2020 | Jan 2021 | Jan 2022 | Jan 2023 | | Jan 2025 |
| Delivery Dates | | Jun 2020 | Jun 2021 | Jun 2022 | Jun 2023 | | Jun 2025 |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): TBD | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 19 of 25: 35th Brigade Modification Kits | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: TBD | | | | Manufacturer Location: TBD | | | |
| 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): TBD | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 20 of 25: ADI TPX 57 Obsolescence | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: TBD | | | | Manufacturer Location: TBD | | | |
| 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): TBD | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 21 of 25: MAP/RDP Encryption Compliance | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | Manufacturer Location: Andover, MA | | | |
| Administrative Leadtime (in Months): 4 | | | | Production Leadtime (in Months): 5 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | | Jan 2020 | Jan 2021 | | | | |
| Delivery Dates | | Jun 2020 | Jun 2021 | | | | |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): Contractor Team (Included in unit cost), PM Fielding Team | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 22 of 25: IFF Antenna Redesign | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | Manufacturer Location: Andover, MA | | | |
| Administrative Leadtime (in Months): 4 | | | | Production Leadtime (in Months): | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | | Jan 2020 | Jan 2021 | | | | |
| Delivery Dates | | Feb 2021 | Feb 2022 | | | | |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): PM Fielding Team (Included in Fielding cost) | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 23 of 25: Report Rocket Classification | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | Manufacturer Location: Andover, MA | | | |
| Administrative Leadtime (in Months): 4 | | | | Production Leadtime (in Months): 5 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | | Jan 2020 | Jan 2021 | Jan 2022 | Jan 2023 | | |
| Delivery Dates | | Jun 2020 | Jun 2021 | Jun 2022 | Jun 2023 | | |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): PM Fielding Team (Included in Fielding cost) | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | MDAP/MAIS Code: | | |
| Modification Item 24 of 25: International Engineering Services Program (IESP) | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Multiple | | | | | Manufacturer Location: Various | | |
| 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): Various | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 0962C50700 / Patriot Mods | | | Modification Number / Title: C50700 / Patriot Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 25 of 25: Logistics Recurring | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Logistics | | | | Manufacturer Location: Huntsville, AL | | | |
| 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): Various | | | | | Installation Quantity: 0 | | |
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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | P-1 Line Item Number / Title: 1823CA6700 / ATACMS MODS | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0203802A | | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 522.737 | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - | - | 1,220.417 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 522.737 | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - | - | 1,220.417 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 522.737 | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - | - | 1,220.417 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 1,138.861 | 1,171.788 | 1,070.933 | 1,034.234 | 1,120.486 | 1,063.401 | - | - | - | - | - | 1,130.016 |
| <p>Description:</p> <p>ATACMS is the United States (U.S.) Army's primary 24/7, all weather, and surface-to-surface artillery precision missile used by current and future Combatant Commanders to shape the battlefield with long-range fires against hard and soft stationary targets in open, complex, and urban environments. The missile provides the Combatant Commanders with a 24/7 all-weather 300 kilometers (km) long-range fires capability to attack high-payoff, time-sensitive targets. ATACMS continues as the Commanders long range precision missile until fielding of the Army's objective system, Precision Strike Missile.</p> <p>This procurement is related to the qualification program funded under Program Element (PE) 0203802A.</p> <p>Block (BLK) I/IA missiles are aging beyond their service life and have warheads that are non-compliant with the Department of Defense (DoD) cluster munitions (CM) policy. This modification is performed as a Service Life Extension Program (SLEP) and will convert expired assets into Unitary HOB missiles with a reset 10 year service life. This modification replaces the existing M74 bomblets with a policy compliant unitary warhead, updates electronics and propellants, and adds a proximity sensor. This effort effectively brings the expired inventory back into service while meeting the DoD CM policy. Multi-mode seeker kits are also added for CD ATACMS missiles to engage moving maritime and land targets.</p> <p>ATACMS modifications performed by Lockheed Martin Missiles and Fire Control, Grand Prairie, TX will stop production after FY 2021.</p> | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - | | |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - | | |
| | Total Obligation Authority | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - | | |

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

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| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | P-1 Line Item Number / Title: 1823CA6700 / ATACMS MODS |
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| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0203802A |
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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 | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | CA6700 / ATACMS MODS (Unclassified) | | | | - / 522.737 | - / 397.236 | - / 80.320 | - / 141.690 | - / 78.434 | - / 220.124 |
| P-40 | Total Gross/Weapon System Cost | | | | - / 522.737 | - / 397.236 | - / 80.320 | - / 141.690 | - / 78.434 | - / 220.124 |

| Exhibits Schedule | | | | | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
|-------------------|---------------------------------------|-------------|-------|----------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | CA6700 / ATACMS MODS (Unclassified) | | | | - / - | - / - | - / - | - / - | - / - | - / 1,220.417 |
| P-40 | Total Gross/Weapon System Cost | | | | - / - | - / - | - / - | - / - | - / - | - / 1,220.417 |

*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 \$141.690 million and FY 2021 OCO procurement dollars in the amount of 78.434 million supports the modification of up to 202 total (126 Base & 76 OCO) expired Army Tactical Missile System (ATACMS) missiles into Unitary height-of-burst missiles with a reset 10 year service life. In response to a Land Based Anti-Ship Missile Operation Needs Statement (ONS 17-22222) to engage moving maritime and land targets, U.S. Army will utilize the ATACMS missile to provide a near-term capability to the Combatant Commands. Pending completion of an ongoing OSD demonstration project using the ATACMS missile to engage moving maritime and land targets, and milestone decision authority approval, multi-mode seeker kits will be procured for this modification to deliver Cross Domain ATACMS missiles. Procurement of the multi-mode seeker kit hardware and associated integration and checkout, if approved, would reduce the 202 total quantity down to a total quantity of 102. Modification tasks include download/de-mate of existing ATACMS missiles, pod update and refresh, obsolescence updated electronics & cables, re-grained propellant, unitary warhead, proximity sensor, and multi-mode seeker kits (if approved). Additional supporting tasks include bunker storage, follow-on production testing (FPT), Stockpile Reliability Program (SRP), production tooling, Government System Engineering/Program Management (SEPM), obsolescence, and software.

Other Non-Recurring costs include production tooling, obsolescence, and engineering changes.

Modification costs in FY 2021 include components, installation costs, and acceptance test in the unit price at the time of contract award.

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

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|--|--|--|--|--|--|--|----------------------------|---|--|--|--|
| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 1823CA6700 / ATACMS MODS | | | | Modification Number / Title: CA6700 / ATACMS MODS | | | |

| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | MDAP/MAIS Code: | | | | | | |
|--|-------------|-----------|-----------|--------------|-------------|-----------------|---------|---------|---------|---------|-------------|-----------|
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 522.737 | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - | - | 1,220.417 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 522.737 | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - | - | 1,220.417 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 522.737 | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - | - | 1,220.417 |
| (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) | 1,138.861 | 1,171.788 | 1,070.933 | 1,034.234 | 1,120.486 | 1,063.401 | - | - | - | - | - | 1,130.016 |

Description:

ATACMS is the United States (U.S.) Army's primary 24/7, all weather, and surface-to-surface artillery precision missile used by current and future Combatant Commanders to shape the battlefield with long-range fires against hard and soft stationary targets in open, complex, and urban environments. The missile provides the Combatant Commanders with a 24/7 all-weather 300 kilometers (km) long-range fires capability to attack high-payoff, time-sensitive targets. ATACMS continues as the Commanders long range precision missile until fielding of the Army's objective system, Precision Strike Missile.

This procurement is related to the qualification program funded under Program Element (PE) 0203802A.

Block (BLK) I/IA missiles are aging beyond their service life and have warheads that are non-compliant with the Department of Defense (DoD) cluster munitions (CM) policy. This modification is performed as a Service Life Extension Program (SLEP) and will convert expired assets into Unitary HOB missiles with a reset 10 year service life. This modification replaces the existing M74 bomblets with a policy compliant unitary warhead, updates electronics and propellants, and adds a proximity sensor. This effort effectively brings the expired inventory back into service while meeting the DoD CM policy. Multi-mode seeker kits are also added for CD ATACMS missiles to engage moving maritime and land targets.

ATACMS modifications performed by Lockheed Martin Missiles and Fire Control, Grand Prairie, TX will stop production after FY 2021.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|--|-----------------------------------|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - |

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|--|---|---|---|--|---|---|---|---|---|---|---|---|--|
| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 1823CA6700 / ATACMS MODS | | | | | | Modification Number / Title: CA6700 / ATACMS MODS | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | MDAP/MAIS Code: | | | | | |
| Models of Systems Affected: ATACMS | | | | Modification Type: Unclassified | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | |
| Procurement | | | | | | | | | | | | | |
| <i>Modification Item 1 of 1:</i> Unitary HOB | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Kit Quantity | 459 / 360.689 | 339 / 315.168 | 75 / 61.661 | 126 / 116.678 | 76 / 64.622 | 202 / 181.300 | - / - | - / - | - / - | - / - | - / - | 1,075 / 918.818 | |
| Contractor/Government SEPM | - / 36.362 | - / 22.242 | - / 5.160 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 63.764 | |
| Government SEPM | - / - | - / - | - / - | - / 12.111 | - / - | - / 12.111 | - / - | - / - | - / - | - / - | - / - | - / 12.111 | |
| <i>Subtotal: Recurring</i> | <i>459 / 397.051</i> | <i>339 / 337.410</i> | <i>75 / 66.821</i> | <i>126 / 118.789</i> | <i>76 / 64.622</i> | <i>202 / 183.411</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>1,075 / 984.693</i> | |
| Non-Recurring | | | | | | | | | | | | | |
| Other Non-Recurring | - / 66.432 | - / 22.575 | - / 3.501 | - / 5.917 | - / 3.568 | - / 9.485 | - / - | - / - | - / - | - / - | - / - | - / 101.993 | |
| <i>Subtotal: Non-Recurring</i> | <i>- / 66.432</i> | <i>- / 22.575</i> | <i>- / 3.501</i> | <i>- / 5.917</i> | <i>- / 3.568</i> | <i>- / 9.485</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>- / 101.993</i> | |
| <i>Subtotal: Unitary HOB</i> | <i>459 / 463.483</i> | <i>339 / 359.985</i> | <i>75 / 70.322</i> | <i>126 / 124.706</i> | <i>76 / 68.190</i> | <i>202 / 192.896</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>1,075 / 1,086.686</i> | |
| <i>Subtotal: Procurement, All Modification Items</i> | <i>459 / 463.483</i> | <i>339 / 359.985</i> | <i>75 / 70.322</i> | <i>126 / 124.706</i> | <i>76 / 68.190</i> | <i>202 / 192.896</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>1,075 / 1,086.686</i> | |
| Installation | | | | | | | | | | | | | |
| <i>Modification Item 1 of 1:</i> Unitary HOB | | | | | | | | | | | | | |
| | 459 / 59.254 | 339 / 37.251 | 75 / 9.998 | 126 / 16.984 | 76 / 10.244 | 202 / 27.228 | - / - | - / - | - / - | - / - | - / - | 1,075 / 133.731 | |
| <i>Subtotal: Installation</i> | <i>459 / 59.254</i> | <i>339 / 37.251</i> | <i>75 / 9.998</i> | <i>126 / 16.984</i> | <i>76 / 10.244</i> | <i>202 / 27.228</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>- / -</i> | <i>1,075 / 133.731</i> | |
| Total | | | | | | | | | | | | | |
| Total Cost (Procurement + Support + Installation) | 522.737 | 397.236 | 80.320 | 141.690 | 78.434 | 220.124 | - | - | - | - | - | 1,220.417 | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | | | | | | | P-1 Line Item Number / Title: 1823CA6700 / ATACMS MODS | | | | | | | | | | Modification Number / Title: CA6700 / ATACMS MODS | | | | | | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | | | | | | | | | |
| Modification Item 1 of 1: Unitary HOB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Name: Lockheed Martin | | | | | | | | | | | | | | | Manufacturer Location: Camden, AR | | | | | | | | | | | | | | | | |
| Administrative Leadtime <i>(in Months)</i> : 2 | | | | | | | | | | | | | | | Production Leadtime <i>(in Months)</i> : 17 | | | | | | | | | | | | | | | | |
| Dates | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | FY 2023 | | | | FY 2024 | | | | FY 2025 | | | | | |
| Contract Dates | | Jun 2019 | | | | Jun 2020 | | | | Jun 2021 | | | | | | | | | | | | | | | | | | | | | |
| Delivery Dates | | Feb 2021 | | | | Feb 2022 | | | | Feb 2023 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method of Implementation: TBD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation Cost | | Prior Years | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | FY 2022 | | FY 2023 | | FY 2024 | | FY 2025 | | To Complete | | Total | | | | | | | |
| | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | Qty (Each) / Total Cost (\$ M) | | | | | | | |
| Prior Years | | 459 / 59.254 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 459 / 59.254 | | | | | |
| FY 2019 | | - / - | | 339 / 37.251 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 339 / 37.251 | | | | | |
| FY 2020 | | - / - | | - / - | | 75 / 9.998 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 75 / 9.998 | | | | | |
| FY 2021 | | - / - | | - / - | | - / - | | 126 / 16.984 | | 76 / 10.244 | | 202 / 27.228 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 202 / 27.228 | | | | | |
| FY 2022 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| FY 2023 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| FY 2024 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| FY 2025 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| To Complete | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | |
| Total | | 459 / 59.254 | | 339 / 37.251 | | 75 / 9.998 | | 126 / 16.984 | | 76 / 10.244 | | 202 / 27.228 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 1,075 / 133.731 | | | | | |
| 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 | 459 | - | - | 339 | - | - | - | 75 | - | - | - | 202 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,075 |
| Out | - | - | 39 | 40 | 40 | 40 | 75 | 75 | 75 | 75 | 84 | 85 | 85 | 85 | 19 | 19 | 19 | 18 | 51 | 51 | 50 | 50 | - | - | - | - | - | - | - | - | 1,075 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | Date: February 2020 |
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| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | P-1 Line Item Number / Title: 1824C57701 / GMLRS MOD |
|---|--|

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

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
|--|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|------------|
| Procurement Quantity (<i>Units in Each</i>) | 2 | 1 | 14 | - | - | - | - | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 6.247 | 0.266 | 5.094 | - | - | - | - | - | - | - | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 6.247 | 0.266 | 5.094 | - | - | - | - | - | - | - | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 6.247 | 0.266 | 5.094 | - | - | - | - | - | - | - | Continuing | Continuing |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 3,123.500 | 266.000 | 363.857 | - | - | - | - | - | - | - | Continuing | Continuing |

Description:

FY 2021 funding totals include \$0.0M for Base and \$0.0M for Overseas Contingency Operations (OCO).

This effort shall be complete in FY 2020. No further funding is required.

GMLRS rockets are surface-to-surface artillery rockets fired from the Multiple Launch Rocket System (MLRS) and High Mobility Artillery Rocket System (HIMARS) launchers. GMLRS rockets provide 24/7, all-weather precision fires to engage both area and point targets at short, medium, and long ranges.

The GMLRS Program currently consists of multiple variants: GMLRS Dual Purpose Improved Conventional Munition (DPICM) is a cluster munition that replaced the shorter range MLRS rockets to engage area or imprecisely located targets. GMLRS DPICM Production was terminated in response to the June 2008 Department of Defense (DoD) Cluster Munitions Policy. GMLRS Unitary utilizes a 200 pound high explosive warhead to engage point targets with limited collateral damage. GMLRS Alternative Warhead (AW) was developed as a non-cluster munition to engage the same target sets as DPICM. GMLRS Unitary and AW are currently in full rate production.

The U.S. Army manages all three variants as part of the GMLRS Program. This modification program along with all GMLRS rockets are produced on a common production line by Lockheed Martin in Camden, Arkansas.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|--------------------------------------|-----------------------------------|--------------|--------------|--------------|-------------|---------------|---------|---------|---------|---------|
| Army | Quantity | 1 | 14 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 0.266 | 5.094 | - | - | - | - | - | - | - |
| Total: Secondary Distribution | Quantity | 1 | 14 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 0.266 | 5.094 | - | - | - | - | - | - | - |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | Date: February 2020 |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | P-1 Line Item Number / Title: 1824C57701 / GMLRS MOD |
| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
| Line Item MDAP/MAIS Code: N/A | | |
| Justification: No funds are requested for FY 2021. | | |

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|--|-----------------------------------|----------------|----------------|---|--------------------|----------------------|---|---|----------------|----------------------------|--------------------|----------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | | P-1 Line Item Number / Title: 2684C20000 / Stinger Mods | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): A | | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0203801A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 294.711 | 94.756 | 89.115 | - | - | - | - | - | - | - | - | 478.582 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 294.711 | 94.756 | 89.115 | - | - | - | - | - | - | - | - | 478.582 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 294.711 | 94.756 | 89.115 | - | - | - | - | - | - | - | - | 478.582 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 181.026 | 54.995 | 55.009 | - | - | - | - | - | - | - | - | 96.275 |
| Description: | | | | | | | | | | | | |
| <p>The Stinger Block I missile is an advanced, fire-and-forget, short-range, man-portable, shoulder-fired and platform mounted guided missile system that provides the maneuver force and point defense assets air defense protection. Stinger's mission is to provide the force with low-altitude air defense against Fixed Wing (FW) and Rotary Wing (RW) Aircraft, Unmanned Aircraft Systems (UAS) and Cruise Missiles (CM). The Stinger missile is deployable from a variety of platforms that includes vehicles, helicopters, UAS and Man Portable Air Defense System (MANPADS). The missile is delivered as a certified round and requires no field testing or maintenance.</p> <p>The Service Life Extension Program (SLEP) is ongoing at McAlester Army Ammunition Plant to replace aging key components in existing Block I missiles to extend the current shelf life providing a more viable asset to the Army's inventory. The addition of a Proximity Fuze (PROX) capability in FY 2019 provided improved effectiveness against UAS threats by eliminating the need for hit to kill.</p> | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | 39.641 | 37.281 | - | - | - | - | - | - | - | - | |
| ANG | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | 55.115 | 51.834 | - | - | - | - | - | - | - | - | |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | 94.756 | 89.115 | - | - | - | - | - | - | - | - | |
| Justification: | | | | | | | | | | | | |
| The Stinger FY 2021 budget request is \$0.000 million. | | | | | | | | | | | | |
| In accordance with Section 1815 of the FY08 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. | | | | | | | | | | | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | Date: February 2020 |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | P-1 Line Item Number / Title: 2684C20000 / Stinger Mods |
| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0203801A |
| Line Item MDAP/MAIS Code: N/A | | |
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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | | | | |

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|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| ID Code (A=Service Ready, B=Not Service Ready): A | | | | | | | | | | Program Elements for Code B Items: N/A | | | | | | | | | | Other Related Program Elements: 0203801A | | | | | | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
|--|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|---------|
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 161.230 | 31.093 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - | - | 231.753 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 161.230 | 31.093 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - | - | 231.753 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 161.230 | 31.093 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - | - | 231.753 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 144.861 | 43.426 | - | - | - | - | - | - | - | - | - | 126.710 |

Description:

Avenger is a lightweight, ground-to-air missile and gun weapon system mounted on a High Mobility Multi-purpose Wheeled Vehicle. The system protects against unmanned aircraft systems, cruise missiles, and fixed and rotary wing threats. Avenger provides day/night adverse weather operations, shoot on the move capability, rapid target engagement, and remote firing capability. It can be air dropped, lifted by helicopter and is air transportable. The system employs up to eight Stinger missiles to counter aerial threats and a M3P gun for close-in ground and air threats. An Identification Friend or Foe (IFF) system aids in the identification of friendly aircraft in order to minimize the potential for fratricide. The Avenger fleet of 453 systems includes 169 systems that are equipped with a digital Slew-to-Cue (STC) capability to speed target detection and engagement.

The Avenger Modification - Service Life Extension Program (MOD-SLEP) consists of Project 038: Avenger Production Improvement Program (PIP) and Program Element CE8710: Avenger MODS. The ongoing MOD-SLEP addresses obsolescence of Avenger components to ensure Avenger maintains operational capability through FY 2031. Five key MOD-SLEP components are: the Targeting Console (TC), the .50 Caliber Machine Gun (M3P), the Avenger Fire Control Computer (AFCC), the Mode 5 Identification Friend or Foe (IFF) and the Vehicle Internal Communications (VIC-5). Additional Obsolescence Mitigation Items include Avenger Organizational Maintenance Tool Kits, AN/PSM-95 Electronic Systems Test Set and the Avenger Remote Handheld Terminal Unit (RHTU) mounting kits.

The Avenger MOD-SLEP is fielded in two phases. Phase I fields the TC to 169 STC Avengers. Phase II fields the AFCC (169 STC Avengers), VIC-5 and the Mode 5 IFF. The M3P will be fielded through attrition. The TC and AFCC are fielded to the 169 STC Avenger variants only.

The Product Office will use FY 2021 funding to buy the Maintenance Tool Kits, AN/PSM-95 Electronic Systems Test Sets and RHTU mounting kits.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|------------------------|----------------------------|----------|----------|--------------|-------------|---------------|----------|----------|----------|----------|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 12.437 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 18.656 | - | - | - | - | - | - | - | - |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): A | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0203801A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Secondary Distribution | Total Obligation Authority | 31.093 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - |
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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): A | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0203801A | | | | |
| 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 | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | CE8710 / AVENGER MODS (Operational) | | A | | - / 161.230 | - / 31.093 | - / 14.107 | - / 13.942 | - / - | - / 13.942 |
| P-40 | Total Gross/Weapon System Cost | | | | - / 161.230 | - / 31.093 | - / 14.107 | - / 13.942 | - / - | - / 13.942 |
| Exhibits Schedule | | | | | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | CE8710 / AVENGER MODS (Operational) | | A | | - / 11.381 | - / - | - / - | - / - | - / - | - / 231.753 |
| P-40 | Total Gross/Weapon System Cost | | | | - / 11.381 | - / - | - / - | - / - | - / - | - / 231.753 |
| *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 procurement dollars in the amount of \$13.942 million procures additional Obsolescence Mitigation Items, including 20 Avenger Organizational Maintenance Tool Kits, 70 AN/PSM-95 Electronic Systems Test Sets and 169 Avenger RHTU mounting kits with associated procurement support. Funding also provides for the fielding of the 453 Phase II MOD-SLEP kits, consisting of the AFCC, VIC-5 and IFF, with associated production and procurement support.

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

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | | | | Modification Number / Title: CE8710 / AVENGER MODS | | |
| ID Code (A=Service Ready, B=Not Service Ready) : A | | | | | | | MDAP/MAIS Code: | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 161.230 | 31.093 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - | - | 231.753 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 161.230 | 31.093 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - | - | 231.753 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 161.230 | 31.093 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - | - | 231.753 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 144.861 | 43.426 | - | - | - | - | - | - | - | - | - | 126.710 |
| <p>Description:</p> <p>Avenger is a lightweight, ground-to-air missile and gun weapon system mounted on a High Mobility Multi-purpose Wheeled Vehicle. The system protects against unmanned aircraft systems, cruise missiles, and fixed and rotary wing threats. Avenger provides day/night adverse weather operations, shoot on the move capability, rapid target engagement, and remote firing capability. It can be air dropped, lifted by helicopter and is air transportable. The system employs up to eight Stinger missiles to counter aerial threats and a M3P gun for close-in ground and air threats. An Identification Friend or Foe (IFF) system aids in the identification of friendly aircraft in order to minimize the potential for fratricide. The Avenger fleet of 453 systems includes 169 systems that are equipped with a digital Slew-to-Cue (STC) capability to speed target detection and engagement.</p> <p>The Avenger Modification - Service Life Extension Program (MOD-SLEP) addresses obsolescence of five key Avenger components to ensure Avenger maintains operational capability through FY 2031.</p> <p>The Vehicle Internal Communications System is a required subsystem that allows communication between the gunner and driver. It also interfaces with the IFF and missile electronics resulting in improved IFF capabilities. The digital VIC-5 replaces the analog VIC-1 that is currently fielded with the Avenger.</p> <p>The Avenger Fire Control Computer (AFCC) is a required subsystem of the Avenger Slew-to-Cue system that processes and displays air tracks data to the gunner. The current AFCC is not supportable through FY 2031. The AFCC will undergo software and hardware upgrades that will enable the system to handle increased targeting capability realized with the latest version of the FAAD early warning system, ensure the system meets the latest Information Assurance (IA) requirements, and allow for future growth in areas such as improved fire control/longer range engagements.</p> <p>The Mode 5 IFF is required to replace the Mode 4 IFF, in order to comply with Department of Defense standards. Incorporation of Mode 5 IFF into Avenger is critical to retaining the cooperative target identification capability, allowing Avenger to remain relevant and effective in Air Defense and Homeland Defense missions. Mode 5 IFF quantities above 453 also support the Stinger Man Portable Air Defense System Initiative.</p> <p>Additional Obsolescence Mitigation Items, in various quantities, support 453 Avenger systems and include Avenger Organizational Maintenance Tool Kits, AN/PSM-95 Electronic Systems Test Sets and Avenger Remote Handheld Terminal Unit (RHTU) mounting kits.</p> <p>The Avenger MOD-SLEP is fielded in two phases. Phase I fields the TC to 169 STC Avengers. Phase II fields the AFCC (169 STC Avengers), VIC-5 and the Mode 5 IFF. The M3P will be fielded through attrition. The TC and AFCC are fielded to the 169 STC Avenger variants only.</p> <p>In prior years, the Avenger MODS program also addressed the Slew-to-Cue upgrade, Targeting Consoles (TC) and M3P .50 CAL machine guns.</p> | | | | | | | | | | | | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | Date: February 2020 | | | |
|---|----------------------------|---------|--|-----------------|-----------------|------------------|---|---------|---------|---------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | | Modification Number / Title: CE8710 / AVENGER MODS | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : A | | | | | MDAP/MAIS Code: | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 12.437 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 18.656 | - | - | - | - | - | - | - | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 31.093 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | Date: February 2020 | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | | Modification Number / Title: CE8710 / AVENGER MODS | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : A | | | | | | | MDAP/MAIS Code: | | | | | | |
| Models of Systems Affected: Avenger Basic and Slew-to-Cue Systems | | | | Modification Type: Operational | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | |
| Procurement | | | | | | | | | | | | | |
| Modification Item 1 of 5: Prior Modifications | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Prior Year Modifications | 466 / 66.337 | - / 0.722 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 466 / 67.059 | |
| Subtotal: Recurring | 466 / 66.337 | - / 0.722 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 466 / 67.059 | |
| Subtotal: Prior Modifications | 466 / 66.337 | - / 0.722 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 466 / 67.059 | |
| Modification Item 2 of 5: Vehicle Internal Communication (VIC-5) | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Hardware | 454 / 4.327 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 454 / 4.327 | |
| Spares | - / 0.457 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 0.457 | |
| Engineering Services | - / 0.172 | - / 0.017 | - / - | - / 0.162 | - / - | - / 0.162 | - / 0.110 | - / - | - / - | - / - | - / - | - / 0.461 | |
| Systems Engineering / Program Management | - / 2.711 | - / 0.104 | - / - | - / 0.241 | - / - | - / 0.241 | - / 0.237 | - / - | - / - | - / - | - / - | - / 3.293 | |
| Fielding | - / - | - / - | - / - | - / 0.208 | - / - | - / 0.208 | - / 0.212 | - / - | - / - | - / - | - / - | - / 0.420 | |
| Subtotal: Recurring | 454 / 7.667 | - / 0.121 | - / - | - / 0.611 | - / - | - / 0.611 | - / 0.559 | - / - | - / - | - / - | - / - | 454 / 8.958 | |
| B Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Avenger to VIC 5 Cables | 264 / 7.040 | 190 / 4.835 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 454 / 11.875 | |
| Spares | - / 0.704 | - / 0.483 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 1.187 | |
| Engineering Services | - / 0.535 | - / 0.282 | - / - | - / 0.446 | - / - | - / 0.446 | - / 0.302 | - / - | - / - | - / - | - / - | - / 1.565 | |
| Systems Engineering / Program Management | - / 1.159 | - / 0.293 | - / - | - / 0.661 | - / - | - / 0.661 | - / 0.652 | - / - | - / - | - / - | - / - | - / 2.765 | |
| Fielding | - / 0.050 | - / - | - / - | - / 0.571 | - / - | - / 0.571 | - / 0.583 | - / - | - / - | - / - | - / - | - / 1.204 | |
| Subtotal: Recurring | 264 / 9.488 | 190 / 5.893 | - / - | - / 1.678 | - / - | - / 1.678 | - / 1.537 | - / - | - / - | - / - | - / - | 454 / 18.596 | |
| Subtotal: Vehicle Internal Communication (VIC-5) | 718 / 17.155 | 190 / 6.014 | - / - | - / 2.289 | - / - | - / 2.289 | - / 2.096 | - / - | - / - | - / - | - / - | 908 / 27.554 | |
| Modification Item 3 of 5: Mode 5/Identification Friend or Foe | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Equipment | 301 / 25.560 | 223 / 18.984 | 61 / 5.670 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 585 / 50.214 | |
| Spares | - / 2.555 | - / 1.898 | - / 0.567 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 5.020 | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | | | Modification Number / Title: CE8710 / AVENGER MODS | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : A | | | | | | | MDAP/MAIS Code: | | | | | | |
| Models of Systems Affected: Avenger Basic and Slew-to-Cue Systems | | | | Modification Type: Operational | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | |
| Engineering Services | - / 1.571 | - / 1.191 | - / 0.542 | - / 1.884 | - / - | - / 1.884 | - / 1.278 | - / - | - / - | - / - | - / - | - / 6.466 | |
| System Engineering / Program Management | - / 8.945 | - / 1.241 | - / 1.479 | - / 2.795 | - / - | - / 2.795 | - / 2.756 | - / - | - / - | - / - | - / - | - / 17.216 | |
| Fielding | - / 0.010 | - / - | - / 0.015 | - / 2.415 | - / - | - / 2.415 | - / 2.463 | - / - | - / - | - / - | - / - | - / 4.903 | |
| Subtotal: Recurring | 301 / 38.641 | 223 / 23.314 | 61 / 8.273 | - / 7.094 | - / - | - / 7.094 | - / 6.497 | - / - | - / - | - / - | - / - | 585 / 83.819 | |
| Non-Recurring | | | | | | | | | | | | | |
| Non-Recurring Production | - / 10.197 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 10.197 | |
| Subtotal: Non-Recurring | - / 10.197 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 10.197 | |
| Subtotal: Mode 5/Identification Friend or Foe | 301 / 48.838 | 223 / 23.314 | 61 / 8.273 | - / 7.094 | - / - | - / 7.094 | - / 6.497 | - / - | - / - | - / - | - / - | 585 / 94.016 | |
| Modification Item 4 of 5: Avenger Fire Control Computer | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Hardware | 170 / 21.545 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | 170 / 21.545 | |
| Spares | - / 2.155 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 2.155 | |
| Engineering Services | - / 1.639 | - / 0.511 | - / - | - / 0.808 | - / - | - / 0.808 | - / 0.549 | - / - | - / - | - / - | - / - | - / 3.507 | |
| Systems Engineering / Program Management | - / 3.546 | - / 0.532 | - / - | - / 1.199 | - / - | - / 1.199 | - / 1.182 | - / - | - / - | - / - | - / - | - / 6.459 | |
| Fielding | - / 0.015 | - / - | - / - | - / 1.036 | - / - | - / 1.036 | - / 1.057 | - / - | - / - | - / - | - / - | - / 2.108 | |
| Subtotal: Recurring | 170 / 28.900 | - / 1.043 | - / - | - / 3.043 | - / - | - / 3.043 | - / 2.788 | - / - | - / - | - / - | - / - | 170 / 35.774 | |
| Subtotal: Avenger Fire Control Computer | 170 / 28.900 | - / 1.043 | - / - | - / 3.043 | - / - | - / 3.043 | - / 2.788 | - / - | - / - | - / - | - / - | 170 / 35.774 | |
| Modification Item 5 of 5: Obsolescence Mitigation Items | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Hardware | - / - | - / - | 37 / 5.834 | 259 / 0.606 | - / - | 259 / 0.606 | - / - | - / - | - / - | - / - | - / - | 296 / 6.440 | |
| Engineering Services | - / - | - / - | - / - | - / 0.242 | - / - | - / 0.242 | - / - | - / - | - / - | - / - | - / - | - / 0.242 | |
| Systems Engineering / Program Management | - / - | - / - | - / - | - / 0.358 | - / - | - / 0.358 | - / - | - / - | - / - | - / - | - / - | - / 0.358 | |
| Fielding | - / - | - / - | - / - | - / 0.310 | - / - | - / 0.310 | - / - | - / - | - / - | - / - | - / - | - / 0.310 | |
| Subtotal: Recurring | - / - | - / - | 37 / 5.834 | 259 / 1.516 | - / - | 259 / 1.516 | - / - | - / - | - / - | - / - | - / - | 296 / 7.350 | |
| Subtotal: Obsolescence Mitigation Items | - / - | - / - | 37 / 5.834 | 259 / 1.516 | - / - | 259 / 1.516 | - / - | - / - | - / - | - / - | - / - | 296 / 7.350 | |
| Subtotal: Procurement, All Modification Items | 1,655 / 161.230 | 413 / 31.093 | 98 / 14.107 | 259 / 13.942 | - / - | 259 / 13.942 | - / 11.381 | - / - | - / - | - / - | - / - | 2,425 / 231.753 | |
| Installation | | | | | | | | | | | | | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | | | Modification Number / Title: CE8710 / AVENGER MODS | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : A | | | | | | | MDAP/MAIS Code: | | | | | | |
| Models of Systems Affected: Avenger Basic and Slew-to-Cue Systems | | | | Modification Type: Operational | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | |
| | Subtotal: Installation | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | |
| Total | | | | | | | | | | | | | |
| Total Cost (Procurement + Support + Installation) | 161.230 | 31.093 | 14.107 | 13.942 | - | 13.942 | 11.381 | - | - | - | - | 231.753 | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | Modification Number / Title: CE8710 / AVENGER MODS | |
| ID Code (A=Service Ready, B=Not Service Ready) : A | | | | MDAP/MAIS Code: | | | |
| Modification Item 1 of 5: Prior Modifications | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Not Applicable | | | | Manufacturer Location: Not Applicable | | | |
| 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): Completed at Depot | | | | | Installation Quantity: 466 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | Modification Number / Title: CE8710 / AVENGER MODS | |
| ID Code (A=Service Ready, B=Not Service Ready) : A | | | | MDAP/MAIS Code: | | | |
| Modification Item 2 of 5: Vehicle Internal Communication (VIC-5) | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Northrop Grumman | | | | Manufacturer Location: Tobyhanna, PA | | | |
| Administrative Leadtime (in Months): 1 | | | | Production Leadtime (in Months): 9 | | | |
| 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): Fielded by Depot with Phase II kit | | | | | Installation Quantity: 453 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | Modification Number / Title: CE8710 / AVENGER MODS | |
| ID Code (A=Service Ready, B=Not Service Ready) : A | | | | MDAP/MAIS Code: | | | |
| Modification Item 3 of 5: Mode 5/Identification Friend or Foe | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Raytheon | | | | Manufacturer Location: Largo, FL | | | |
| Administrative Leadtime (in Months): 4 | | | | Production Leadtime (in Months): 12 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Apr 2019 | Apr 2020 | | | | | |
| Delivery Dates | Jan 2022 | Jan 2023 | | | | | |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): Fielded by Depot with Phase II kit | | | | | Installation Quantity: 453 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | Modification Number / Title: CE8710 / AVENGER MODS | |
| ID Code (A=Service Ready, B=Not Service Ready) : A | | | | MDAP/MAIS Code: | | | |
| Modification Item 4 of 5: Avenger Fire Control Computer | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Boeing | | | | Manufacturer Location: Huntsville, AL | | | |
| Administrative Leadtime (in Months): 1 | | | | Production Leadtime (in Months): 9 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Oct 2018 | | | | | | |
| Delivery Dates | May 2020 | | | | | | |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): Fielded by Depot with Phase II kit | | | | | Installation Quantity: 169 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 2690CE8710 / AVENGER MODS | | | Modification Number / Title: CE8710 / AVENGER MODS | |
| ID Code (A=Service Ready, B=Not Service Ready) : A | | | | MDAP/MAIS Code: | | | |
| Modification Item 5 of 5: Obsolescence Mitigation Items | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Varies | | | | Manufacturer Location: Varies | | | |
| Administrative Leadtime (in Months): 6 | | | | Production Leadtime (in Months): 6 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | | Jul 2020 | Jul 2021 | | | | |
| Delivery Dates | | Jul 2021 | Jul 2022 | | | | |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): Fielded by Depot | | | | | Installation Quantity: 169 | | |
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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | | P-1 Line Item Number / Title: 3972C61700 / ITAS/TOW Mods | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: N/A | | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 1,792.822 | 3.173 | 3.469 | 5.666 | - | 5.666 | - | - | - | - | - | 1,805.130 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 1,792.822 | 3.173 | 3.469 | 5.666 | - | 5.666 | - | - | - | - | - | 1,805.130 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 1,792.822 | 3.173 | 3.469 | 5.666 | - | 5.666 | - | - | - | - | - | 1,805.130 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 68,954.692 | 132.208 | 138.760 | 153.135 | - | 153.135 | - | - | - | - | - | 16,117.232 |
| Description: The Improved Target Acquisition System (ITAS) with Far Target Location (FTL) is a combat proven system that provides long-range, lethal anti-armor and precision assault fires capability for Active Component and Army National Guard Infantry Brigade Combat Teams (IBCT) and Stryker Brigade Combat Teams (SBCT) equipped with Modified ITAS (MITAS) across the spectrum of contemporary operational environments. ITAS with the TOW Missile provides the capability to defeat armored vehicles, bunkers, and buildings at extended ranges in all battlefield conditions. ITAS's superior surveillance capability also enables the Soldier to shape the battlefield by detecting targets at long range and either engaging with TOW missiles or other weapon systems to destroy those targets with its ability to generate a 10 digit grid coordinate of a target location. The ITAS completed fielding to the total Army in December 2012. ITAS continues to be the weapon of choice in precision combat engagements. The TOW Weapon System includes the ITAS launcher and TOW Missiles. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | 3.173 | 3.469 | 3.166 | - | 3.166 | - | - | - | - | - | |
| ANG | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | - | - | 2.500 | - | 2.500 | - | - | - | - | - | |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | 3.173 | 3.469 | 5.666 | - | 5.666 | - | - | - | - | - | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | P-1 Line Item Number / Title: 3972C61700 / ITAS/TOW Mods | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: N/A | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | |
| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | C61700 / ITAS/TOW Mods (NA) | | | | - / 1,792.822 | - / 3.173 | - / 3.469 | - / 5.666 | - / - | - / 5.666 |
| P-40 | Total Gross/Weapon System Cost | | | | - / 1,792.822 | - / 3.173 | - / 3.469 | - / 5.666 | - / - | - / 5.666 |
| Exhibits Schedule | | | | | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | C61700 / ITAS/TOW Mods (NA) | | | | - / - | - / - | - / - | - / - | - / - | - / 1,805.130 |
| P-40 | Total Gross/Weapon System Cost | | | | - / - | - / - | - / - | - / - | - / - | - / 1,805.130 |
| *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:
 FY2021 funding totals include \$5.666 Million in Base to procure 37 Common Processor Kits for the Modified ITAS (MITAS) in the Stryker Anti-Tank Guided Missile (Stryker ATGM) vehicle. This procurement will field a single configuration across the US Army ITAS and MITAS fleets. The funding also includes the installation and program management cost. Once installation completes, the entire ITAS / MITAS fleet within the Army's Infantry Brigade Combat Team (IBCT) and Stryker Brigade Combat Teams (SBCT) will have a single configuration.

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

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | Date: February 2020 | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 3972C61700 / ITAS/TOW Mods | | | | Modification Number / Title: C61700 / ITAS/TOW Mods | | | |

| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | MDAP/MAIS Code: | | | | | | |
|---|-------------|---------|---------|--------------|-------------|-----------------|---------|---------|---------|---------|-------------|------------|
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity <i>(Units in Each)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | 1,792.822 | 3.173 | 3.469 | 5.666 | - | 5.666 | - | - | - | - | - | 1,805.130 |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | 1,792.822 | 3.173 | 3.469 | 5.666 | - | 5.666 | - | - | - | - | - | 1,805.130 |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority <i>(\$ in Millions)</i> | 1,792.822 | 3.173 | 3.469 | 5.666 | - | 5.666 | - | - | - | - | - | 1,805.130 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | 68,954.692 | 132.208 | 138.760 | 153.135 | - | 153.135 | - | - | - | - | - | 16,117.232 |

Description:

The Improved Target Acquisition System (ITAS) with Far Target Location (FTL) is a combat proven system that provides long-range, lethal anti-armor and precision assault fires capability for Active Component and Army National Guard Infantry Brigade Combat Teams (IBCT) and Stryker Brigade Combat Teams (SBCT) equipped with Modified ITAS (MITAS) across the spectrum of contemporary operational environments. ITAS with the TOW Missile provides the capability to defeat armored vehicles, bunkers, and buildings at extended ranges in all battlefield conditions. ITAS's superior surveillance capability also enables the Soldier to shape the battlefield by detecting targets at long range and either engaging with TOW missiles or other weapon systems to destroy those targets with its ability to generate a 10 digit grid coordinate of a target location. The ITAS completed fielding to the total Army in December 2012. ITAS continues to be the weapon of choice in precision combat engagements.

FY2021 funding totals include \$5.666 Million in Base to procure 37 Common Processor Kits for the Modified ITAS (MITAS) in the Stryker Anti-Tank Guided Missile (Stryker ATGM) vehicle. This procurement will field a single configuration across the US Army ITAS and MITAS fleets. The funding also includes the installation and program management cost. Once installation completes, the entire ITAS / MITAS fleet within the Army's Infantry Brigade Combat Team (IBCT) and Stryker Brigade Combat Teams (SBCT) will have a single configuration.

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.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|--|-----------------------------------|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 3.173 | 3.469 | 3.166 | - | 3.166 | - | - | - | - |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | - | 2.500 | - | 2.500 | - | - | - | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 3.173 | 3.469 | 5.666 | - | 5.666 | - | - | - | - |

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|--|--------------------------------|--------------------------------|--------------------------------|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---|--------------------------------|--------------------------------|--|
| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 3972C61700 / ITAS/TOW Mods | | | | | | Modification Number / Title: C61700 / ITAS/TOW Mods | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | MDAP/MAIS Code: | | | | | |
| Models of Systems Affected: NA | | | | Modification Type: NA | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | |
| Procurement | | | | | | | | | | | | | |
| Modification Item 1 of 1: ITAS (IMPROVED TARGET ACQUISITION SYSTEM) | | | | | | | | | | | | | |
| B Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Kit Production | - / 1,412.925 | 24 / 2.831 | 25 / 3.109 | 37 / 5.231 | - / - | 37 / 5.231 | - / - | - / - | - / - | - / - | - / - | 86 / 1,424.096 | |
| Fielding | - / 82.591 | - / - | - / 0.063 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 82.654 | |
| Subcomponents | - / 0.302 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 0.302 | |
| Data | - / 3.097 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 3.097 | |
| Subtotal: Recurring | - / 1,498.915 | 24 / 2.831 | 25 / 3.172 | 37 / 5.231 | - / - | 37 / 5.231 | - / - | - / - | - / - | - / - | - / - | 86 / 1,510.149 | |
| Non-Recurring | | | | | | | | | | | | | |
| Project Management | - / 125.067 | - / 0.312 | - / 0.297 | - / 0.388 | - / - | - / 0.388 | - / - | - / - | - / - | - / - | - / - | - / 126.064 | |
| Training Equipment | - / 86.715 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 86.715 | |
| Prior Equipment - Kits | - / 82.125 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 82.125 | |
| Subtotal: Non-Recurring | - / 293.907 | - / 0.312 | - / 0.297 | - / 0.388 | - / - | - / 0.388 | - / - | - / - | - / - | - / - | - / - | - / 294.904 | |
| Subtotal: ITAS (IMPROVED TARGET ACQUISITION SYSTEM) | - / 1,792.822 | 24 / 3.143 | 25 / 3.469 | 37 / 5.619 | - / - | 37 / 5.619 | - / - | - / - | - / - | - / - | - / - | 86 / 1,805.053 | |
| Subtotal: Procurement, All Modification Items | - / 1,792.822 | 24 / 3.143 | 25 / 3.469 | 37 / 5.619 | - / - | 37 / 5.619 | - / - | - / - | - / - | - / - | - / - | 86 / 1,805.053 | |
| Installation | | | | | | | | | | | | | |
| Modification Item 1 of 1: ITAS (IMPROVED TARGET ACQUISITION SYSTEM) | - / - | 24 / 0.030 | - / - | 37 / 0.047 | - / - | 37 / 0.047 | - / - | - / - | - / - | - / - | - / - | 61 / 0.077 | |
| Subtotal: Installation | - / - | 24 / 0.030 | - / - | 37 / 0.047 | - / - | 37 / 0.047 | - / - | - / - | - / - | - / - | - / - | 61 / 0.077 | |
| Total | | | | | | | | | | | | | |
| Total Cost (Procurement + Support + Installation) | 1,792.822 | 3.173 | 3.469 | 5.666 | - | 5.666 | - | - | - | - | - | 1,805.130 | |

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|--|------------|---------------------------------------|-----------|---------------------------------------|-----------|---------------------------------------|-----------|---------------------------------------|-----------|---------------------------------------|--|---------------------------------------|-----------|---|-----------|---------------------------------------|-----------|---------------------------------------|-----------|---------------------------------------|-----------|---|-----------|---------------------------------------|-----------|----------------|-----------|-----------|-----------|-----------|------------|--|
| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | | Date: February 2020 | | | | | | | | | | | | | | | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | | | | | | | | P-1 Line Item Number / Title: 3972C61700 / ITAS/TOW Mods | | | | | | | | | | | Modification Number / Title: C61700 / ITAS/TOW Mods | | | | | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | | | | | | | | | |
| Modification Item 1 of 1: ITAS (IMPROVED TARGET ACQUISITION SYSTEM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Name: Raytheon Network Centric Systems Company | | | | | | | | | | | | | | Manufacturer Location: McKinney, TX | | | | | | | | | | | | | | | | | | |
| Administrative Leadtime <i>(in Months)</i> : 4 | | | | | | | | | | | | | | Production Leadtime <i>(in Months)</i> : 12 | | | | | | | | | | | | | | | | | | |
| Dates | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | FY 2023 | | | | FY 2024 | | | | FY 2025 | | | | | | |
| Contract Dates | | Mar 2019 | | | | Mar 2020 | | | | Mar 2021 | | | | | | | | | | | | | | | | | | | | | | |
| Delivery Dates | | Mar 2020 | | | | Mar 2021 | | | | Mar 2022 | | | | | | | | | | | | | | | | | | | | | | |
| Installation Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method of Implementation: Contract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation Cost | | Prior Years | | FY 2019 | | FY 2020 | | FY 2021 Base | | FY 2021 OCO | | FY 2021 Total | | FY 2022 | | FY 2023 | | FY 2024 | | FY 2025 | | To Complete | | Total | | | | | | | | |
| | | <i>Qty (Each) / Total Cost (\$ M)</i> | | <i>Qty (Each) / Total Cost (\$ M)</i> | | <i>Qty (Each) / Total Cost (\$ M)</i> | | <i>Qty (Each) / Total Cost (\$ M)</i> | | <i>Qty (Each) / Total Cost (\$ M)</i> | | <i>Qty (Each) / Total Cost (\$ M)</i> | | <i>Qty (Each) / Total Cost (\$ M)</i> | | <i>Qty (Each) / Total Cost (\$ M)</i> | | <i>Qty (Each) / Total Cost (\$ M)</i> | | <i>Qty (Each) / Total Cost (\$ M)</i> | | <i>Qty (Each) / Total Cost (\$ M)</i> | | <i>Qty (Each) / Total Cost (\$ M)</i> | | | | | | | | |
| Prior Years | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | | |
| FY 2019 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | | |
| FY 2020 | | - / - | | 12 / 0.015 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 12 / 0.015 | | | | | | |
| FY 2021 | | - / - | | 12 / 0.015 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 12 / 0.015 | | | | | | |
| FY 2022 | | - / - | | - / - | | - / - | | 18 / 0.023 | | - / - | | 18 / 0.023 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 18 / 0.023 | | | | | | |
| FY 2023 | | - / - | | - / - | | - / - | | 19 / 0.024 | | - / - | | 19 / 0.024 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 19 / 0.024 | | | | | | |
| FY 2024 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | | |
| FY 2025 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | | |
| To Complete | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | | | | | |
| Total | | - / - | | 24 / 0.030 | | - / - | | 37 / 0.047 | | - / - | | 37 / 0.047 | | - / - | | - / - | | - / - | | - / - | | - / - | | - / - | | 61 / 0.077 | | | | | | |
| 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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | 9 | 9 | 10 | - | - | - | - | - | - | - | - | - | - | - | 37 | |
| Out | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | 9 | 9 | 10 | - | - | - | - | - | - | - | - | - | - | - | 37 | |

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|--|--------------------|----------------|----------------|---|--------------------|----------------------|--|---|----------------|----------------------------|--------------------|-------------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | | P-1 Line Item Number / Title: 6552C67500 / MLRS Mods | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0603778A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 606.945 | 478.998 | 372.550 | 310.419 | 20.000 | 330.419 | 277.623 | 207.159 | 165.712 | 165.062 | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 606.945 | 478.998 | 372.550 | 310.419 | 20.000 | 330.419 | 277.623 | 207.159 | 165.712 | 165.062 | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 606.945 | 478.998 | 372.550 | 310.419 | 20.000 | 330.419 | 277.623 | 207.159 | 165.712 | 165.062 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 12,644.688 | 6,942.000 | 4,005.914 | 7,760.475 | 10,000.000 | 7,867.119 | 25,238.455 | 9,416.318 | 8,285.600 | 8,253.100 | Continuing | Continuing |
| <p>Description:</p> <p>The M270A1 Multiple Launch Rocket System (MLRS) launcher is a full-spectrum, combat-proven, all-weather, 24/7 lethal and responsive, precision strike weapon system. MLRS provides critical missile precision strike, operational shaping fires, counterfire, and close support destructive and suppressive fires. MLRS is a tracked, indirect fire, rocket/missile launcher capable of firing two pods of precision rockets/missiles from the current and emerging Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM), to include the Extended Range Guided Multiple Launch Rocket System (ER GMLRS), the Army Tactical Missile System (ATACMS), and the Precision Strike Missile (PrSM).</p> <p>In FY2017, the Army directed the program office to modernize 160 obsolete, unserviceable MLRS M270A0s to M270A2s in an effort called MLRS Fleet Expansion. In addition to MLRS Fleet Expansion, the Army decided to extend the operational life of the existing M270A1 fleet to FY2050 or beyond, which drives the requirement to upgrade the current fleet of 225 M270A1 launchers to the M270A2 configuration. The end state is 385 MLRS launchers with Improved Armored Cabs (IAC), Bradley commonality improvements, and Common Fire Control System (CFCS). Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes an M270A2.</p> <p>Mod 1 (MLRS Fleet Expansion). The Fleet Expansion effort will modernize 160 MLRS M270A0s to M270A2s through a Public Private Partnership. The prime contractor and Red River Army Depot (RRAD) will rebuild and provide selective upgrades to include, IAC, Bradley commonality improvements, and CFCS.</p> <p>Mod 2 (MLRS Fleet Upgrade). The MLRS Fleet upgrade effort will follow the same rebuild process and selective upgrades as the Fleet Expansion effort, by upgrading the current fleet of M270A1 launchers to M270A2 with IAC, Bradley Commonality and CFCS. Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes a M270A2. This upgrade effort will extend the operational life of these launchers to FY2050 and beyond.</p> <p>Mod 3 (Improved Armored Cab). The Improved Armored Cab (IAC) Modification Kit provides crew survivability against Improvised Explosive Devices (IEDs) and small arms fire greater than or equal to the High Mobility Artillery Rocket System (HIMARS) Increased Crew Protection Cab (ICP). Additionally, IAC standardizes crew drill requirements between HIMARS and MLRS operators. Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes a M270A2. Integration of the IAC is performed by RRAD under a Public Private Partnership as part of the MLRS Fleet Expansion effort.</p> <p>The current Army Acquisition Objective is 225 MLRS launchers. The end state Army Acquisition Objective after Fleet Expansion will be 385 M270A2 MLRS launchers.</p> | | | | | | | | | | | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | P-1 Line Item Number / Title: 6552C67500 / MLRS Mods | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0603778A | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 478.998 | 372.550 | 301.055 | 20.000 | 321.055 | 266.537 | 207.159 | 165.712 | 165.062 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | - | 9.364 | - | 9.364 | 11.086 | - | - | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 478.998 | 372.550 | 310.419 | 20.000 | 330.419 | 277.623 | 207.159 | 165.712 | 165.062 |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | P-1 Line Item Number / Title: 6552C67500 / MLRS Mods | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0603778A | | | |
| 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 | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | C67500 / MLRS Mods (.) | | | | - / 606.945 | - / 478.998 | - / 372.550 | - / 310.419 | - / 20.000 | - / 330.419 |
| P-40 | Total Gross/Weapon System Cost | | | | - / 606.945 | - / 478.998 | - / 372.550 | - / 310.419 | - / 20.000 | - / 330.419 |

| Exhibits Schedule | | | | | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
|-------------------|---------------------------------------|-------------|-------|----------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | C67500 / MLRS Mods (.) | | | | - / 277.623 | - / 207.159 | - / 165.712 | - / 165.062 | Continuing | Continuing |
| P-40 | Total Gross/Weapon System Cost | | | | - / 277.623 | - / 207.159 | - / 165.712 | - / 165.062 | 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 procurement dollars in the amount of \$310.419 million supports MLRS Fleet Expansion (Mod 1) of 37 MLRS launchers from M270A0 configuration to M270A2 configuration; completes the nonrecurring engineering obsolescence effort of the launcher chassis design. Procures 26 Improved Armored Cabs (Mod 3).

FY 2021 OCO procurement dollars in the amount of \$20.000 million supports MLRS Fleet Expansion (Mod 1) of 3 MLRS launchers from M270A0 configuration to M270A2 configuration.

The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or foreign military sales to start the MLRS Fleet Upgrade (Mod 2) of MLRS launchers from M270A1 configuration to M270A2 configuration, and/or address obsolescence, modernization, cost reduction, and production initiatives. The Army will continue to incorporate modifications with the MLRS launcher to keep pace with the current and evolving threat.

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

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 6552C67500 / MLRS Mods | | | | Modification Number / Title: C67500 / MLRS Mods | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | MDAP/MAIS Code: | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 606.945 | 478.998 | 372.550 | 310.419 | 20.000 | 330.419 | 277.623 | 207.159 | 165.712 | 165.062 | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 606.945 | 478.998 | 372.550 | 310.419 | 20.000 | 330.419 | 277.623 | 207.159 | 165.712 | 165.062 | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 606.945 | 478.998 | 372.550 | 310.419 | 20.000 | 330.419 | 277.623 | 207.159 | 165.712 | 165.062 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 12,644.688 | 6,942.000 | 4,005.914 | 7,760.475 | 10,000.000 | 7,867.119 | 25,238.455 | 9,416.318 | 8,285.600 | 8,253.100 | Continuing | Continuing |
| <p>Description:</p> <p>The M270A1 Multiple Launch Rocket System (MLRS) launcher is a full-spectrum, combat-proven, all-weather, 24/7 lethal and responsive, precision strike weapon system. MLRS provides critical missile precision strike, operational shaping fires, counterfire, and close support destructive and suppressive fires. MLRS is a tracked, indirect fire, rocket/missile launcher capable of firing two pods of precision rockets/missiles from the current and emerging Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM), to include the Extended Range Guided Multiple Launch Rocket System (ER GMLRS), the Army Tactical Missile System (ATACMS), and the Precision Strike Missile (PrSM).</p> <p>In FY2017, the Army directed the program office to modernize 160 obsolete, unserviceable MLRS M270A0s to M270A2s in an effort called MLRS Fleet Expansion. In addition to MLRS Fleet Expansion, the Army decided to extend the operational life of the existing M270A1 fleet to FY2050 or beyond, which drives the requirement to upgrade the current fleet of 225 M270A1 launchers to the M270A2 configuration. The end state is 385 MLRS launchers with Improved Armored Cabs (IAC), Bradley commonality improvements, and Common Fire Control System (CFCS). Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes an M270A2.</p> <p>Mod 1 (MLRS Fleet Expansion). The Fleet Expansion effort will modernize 160 MLRS M270A0s to M270A2s through a Public Private Partnership. The prime contractor and Red River Army Depot (RRAD) will rebuild and provide selective upgrades to include, IAC, Bradley commonality improvements, and CFCS.</p> <p>Mod 2 (MLRS Fleet Upgrade). The MLRS Fleet upgrade effort will follow the same rebuild process and selective upgrades as the Fleet Expansion effort, by upgrading the current fleet of M270A1 launchers to M270A2 with IAC, Bradley Commonality and CFCS. Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes a M270A2. This upgrade effort will extend the operational life of these launchers to FY2050 and beyond.</p> <p>Mod 3 (Improved Armored Cab). The Improved Armored Cab (IAC) Modification Kit provides crew survivability against Improvised Explosive Devices (IEDs) and small arms fire greater than or equal to the High Mobility Artillery Rocket System (HIMARS) Increased Crew Protection Cab (ICP). Additionally, IAC standardizes crew drill requirements between HIMARS and MLRS operators. Upon integration of the IAC Modification Kit on a M270A1, the launcher permanently becomes a M270A2. Integration of the IAC is performed by RRAD under a Public Private Partnership as part of the MLRS Fleet Expansion effort.</p> <p>The current Army Acquisition Objective is 225 MLRS launchers. The end state Army Acquisition Objective after Fleet Expansion will be 385 M270A2 MLRS launchers.</p> | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | - | - | - | - | - | - | - | - | - | | |
| | Total Obligation Authority | 478.998 | 372.550 | 301.055 | 20.000 | 321.055 | 266.537 | 207.159 | 165.712 | 165.062 | | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | P-1 Line Item Number / Title: 6552C67500 / MLRS Mods | | | | Modification Number / Title: C67500 / MLRS Mods | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | MDAP/MAIS Code: | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | - | 9.364 | - | 9.364 | 11.086 | - | - | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 478.998 | 372.550 | 310.419 | 20.000 | 330.419 | 277.623 | 207.159 | 165.712 | 165.062 |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 6552C67500 / MLRS Mods | | | | | Modification Number / Title: C67500 / MLRS Mods | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | MDAP/MAIS Code: | | | | | | |
| Models of Systems Affected: M270A1 | | | | Modification Type: . | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | |
| Procurement | | | | | | | | | | | | | |
| Modification Item 1 of 3: MLRS Fleet Expansion | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Obsolescence Mitigation (inactive) | | - / 468.710 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 468.710 | |
| System Engineering Program Management | | - / 14.418 | - / 16.847 | - / 16.244 | - / 16.525 | - / - | - / 16.525 | - / 10.481 | - / - | - / - | - / - | - / 74.515 | |
| Transmissions and Engines | | - / 17.125 | - / 1.288 | - / 25.526 | - / 16.383 | - / - | - / 16.383 | - / 10.653 | - / - | - / - | - / - | - / 70.975 | |
| M270A2 Launcher Fleet Expansion | | - / - | 55 / 368.802 | 39 / 271.493 | 37 / 229.978 | 3 / 20.000 | 40 / 249.978 | 26 / 167.200 | - / - | - / - | - / - | 160 / 1,057.473 | |
| Subtotal: Recurring | | - / 500.253 | 55 / 386.937 | 39 / 313.263 | 37 / 262.886 | 3 / 20.000 | 40 / 282.886 | 26 / 188.334 | - / - | - / - | - / - | 160 / 1,671.673 | |
| Non-Recurring | | | | | | | | | | | | | |
| Obsolescence Mitigation Bradley Chassis | | - / 18.494 | - / 20.328 | - / - | - / 7.871 | - / - | - / 7.871 | - / - | - / - | - / - | - / - | - / 46.693 | |
| Obsolescence Mitigation Fire Control Sys | | - / 14.195 | - / 12.896 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 27.091 | |
| Launcher Risk Reduction | | - / 12.850 | - / 4.567 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / 17.417 | |
| Government Testing | | - / - | - / 0.923 | - / 0.460 | - / 2.627 | - / - | - / 2.627 | - / - | - / - | - / - | - / - | - / 4.010 | |
| Initial Spares | | - / - | - / 13.171 | - / 14.470 | - / 8.172 | - / - | - / 8.172 | - / 2.778 | - / - | - / - | - / - | - / 38.591 | |
| Training | | - / - | - / 1.909 | - / - | - / 6.693 | - / - | - / 6.693 | - / 2.692 | - / - | - / - | - / - | - / 11.294 | |
| Subtotal: Non-Recurring | | - / 45.539 | - / 53.794 | - / 14.930 | - / 25.363 | - / - | - / 25.363 | - / 5.470 | - / - | - / - | - / - | - / 145.096 | |
| Subtotal: MLRS Fleet Expansion | | - / 545.792 | 55 / 440.731 | 39 / 328.193 | 37 / 288.249 | 3 / 20.000 | 40 / 308.249 | 26 / 193.804 | - / - | - / - | - / - | 160 / 1,816.769 | |
| Modification Item 2 of 3: MLRS Fleet Upgrade | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| System Engineering Program Management | | - / - | - / - | - / - | - / - | - / - | - / 5.448 | - / 16.050 | - / 16.719 | - / 17.389 | Continuing | Continuing | |
| Transmissions and Engines | | - / - | - / - | - / - | - / - | - / - | - / 15.979 | - / 12.496 | - / 11.267 | - / 7.119 | Continuing | Continuing | |
| M270A2 Launcher Upgrade | | - / - | - / - | - / - | - / - | - / - | 6 / 37.987 | 22 / 152.521 | 20 / 136.369 | 20 / 138.765 | Continuing | Continuing | |
| Subtotal: Recurring | | - / - | - / - | - / - | - / - | - / - | 6 / 59.414 | 22 / 181.067 | 20 / 164.355 | 20 / 163.273 | Continuing | Continuing | |
| Non-Recurring | | | | | | | | | | | | | |
| Training | | - / - | - / - | - / - | - / - | - / - | - / 2.580 | - / 1.795 | - / 1.357 | - / 1.789 | Continuing | Continuing | |
| Subtotal: Non-Recurring | | - / - | - / - | - / - | - / - | - / - | - / 2.580 | - / 1.795 | - / 1.357 | - / 1.789 | Continuing | Continuing | |
| Subtotal: MLRS Fleet Upgrade | | - / - | - / - | - / - | - / - | - / - | 6 / 61.994 | 22 / 182.862 | 20 / 165.712 | 20 / 165.062 | Continuing | Continuing | |
| Modification Item 3 of 3: Improved Armored Cab (IAC) | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | |
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| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 6552C67500 / MLRS Mods | | | | | | Modification Number / Title: C67500 / MLRS Mods | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | MDAP/MAIS Code: | | | | | |
| Models of Systems Affected: M270A1 | | | | Modification Type: . | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | Qty (Each) / Total Cost (\$ M) | |
| Production | 51 / 61.153 | 51 / 38.267 | 51 / 44.357 | 26 / 22.170 | - / - | 26 / 22.170 | 25 / 21.825 | 26 / 24.297 | - / - | - / - | Continuing | Continuing | |
| <i>Subtotal: Recurring</i> | 51 / 61.153 | 51 / 38.267 | 51 / 44.357 | 26 / 22.170 | - / - | 26 / 22.170 | 25 / 21.825 | 26 / 24.297 | - / - | - / - | Continuing | Continuing | |
| <i>Subtotal: Improved Armored Cab (IAC)</i> | 51 / 61.153 | 51 / 38.267 | 51 / 44.357 | 26 / 22.170 | - / - | 26 / 22.170 | 25 / 21.825 | 26 / 24.297 | - / - | - / - | Continuing | Continuing | |
| <i>Subtotal: Procurement, All Modification Items</i> | 51 / 606.945 | 106 / 478.998 | 90 / 372.550 | 63 / 310.419 | 3 / 20.000 | 66 / 330.419 | 57 / 277.623 | 48 / 207.159 | 20 / 165.712 | 20 / 165.062 | Continuing | Continuing | |
| Installation | | | | | | | | | | | | | |
| <i>Subtotal: Installation</i> | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | |
| Total | | | | | | | | | | | | | |
| Total Cost (Procurement + Support + Installation) | 606.945 | 478.998 | 372.550 | 310.419 | 20.000 | 330.419 | 277.623 | 207.159 | 165.712 | 165.062 | Continuing | Continuing | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 6552C67500 / MLRS Mods | | | Modification Number / Title: C67500 / MLRS Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 1 of 3: MLRS Fleet Expansion | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Lockheed Martin Missiles & Fire Control | | | | Manufacturer Location: Camden, AR | | | |
| Administrative Leadtime (in Months): 3 | | | | Production Leadtime (in Months): 28 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Apr 2019 | Apr 2020 | Apr 2021 | Apr 2022 | | | |
| Delivery Dates | Dec 2021 | Oct 2022 | Sep 2023 | Aug 2024 | | | |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): Field Artillery Launchers Product Office | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 6552C67500 / MLRS Mods | | | Modification Number / Title: C67500 / MLRS Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 2 of 3: MLRS Fleet Upgrade | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Lockheed Martin Missiles & Fire Control | | | | Manufacturer Location: Camden, AR | | | |
| Administrative Leadtime (in Months): 3 | | | | Production Leadtime (in Months): 28 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | | | | Apr 2022 | Apr 2023 | Apr 2024 | Apr 2025 |
| Delivery Dates | | | | Dec 2024 | Dec 2025 | Dec 2026 | Dec 2027 |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): Field Artillery Launchers Product Office | | | | | Installation Quantity: 0 | | |
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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 6552C67500 / MLRS Mods | | | Modification Number / Title: C67500 / MLRS Mods | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 3 of 3: Improved Armored Cab (IAC) | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Loc Performance Products, LLC | | | | Manufacturer Location: Plymouth, MI | | | |
| Administrative Leadtime (in Months): 3 | | | | Production Leadtime (in Months): 21 | | | |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Aug 2019 | May 2020 | May 2021 | May 2022 | May 2023 | | |
| Delivery Dates | May 2021 | May 2022 | May 2023 | May 2024 | May 2025 | | |
| Installation Information | | | | | | | |
| Method of Implementation (Organic): Depot | | | | | Installation Quantity: 0 | | |
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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | | P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: 0210600A, 0603778A, 0210608A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | 59 | 35 | 40 | 22 | - | 22 | 22 | 30 | 60 | 100 | Continuing | Continuing |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 235.062 | 10.196 | 12.483 | 6.081 | - | 6.081 | 7.292 | 9.700 | 17.402 | 29.968 | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 235.062 | 10.196 | 12.483 | 6.081 | - | 6.081 | 7.292 | 9.700 | 17.402 | 29.968 | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 235.062 | 10.196 | 12.483 | 6.081 | - | 6.081 | 7.292 | 9.700 | 17.402 | 29.968 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | 3,984.102 | 291.314 | 312.075 | 276.409 | - | 276.409 | 331.455 | 323.333 | 290.033 | 299.680 | Continuing | Continuing |
| Description: | | | | | | | | | | | | |
| <p>The M142 High Mobility Artillery Rocket System (HIMARS) launcher is a full spectrum, combat proven, all weather, 24/7 lethal and responsive, precision strike weapon system. HIMARS provides critical missile precision strike, operational shaping fires, counter-fire, and close support destructive and suppressive fires. HIMARS is a C-130 or C-17 transportable, wheeled, indirect fire, rocket/missile launcher capable of firing one pod of precision rockets/missiles from the current and future Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM), to include the Guided Multiple Launch Rocket System-Unitary (GMLRS-U), GMLRS Alternative Warhead, the Army Tactical Missile System (ATACMS) and future MFOM to include the Extended Range (ER) GMLRS, and the Precision Strike Missile (PrSM).</p> <p>Mod 1 (M142 Mods). Modifications are needed to address safety, operational-related, chassis, and Command, Control, Communications, Computer, and Intelligence (C4I) obsolescence issues within the HIMARS fleet. Additionally, procures system-specific training devices required to support the HIMARS Vehicle and Maintainer training courses.</p> <p>Army Acquisition Objective (AAO) is 363 HIMARS launchers. The end state Army Acquisition Objective after HIMARS Fleet Expansion will be 425 HIMARS launchers, but may be increased contingent on Army requirements.</p> | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | 16 | 40 | 14 | - | 14 | 14 | 17 | 34 | 52 | | |
| | Total Obligation Authority | 4.444 | 12.483 | 3.867 | - | 3.867 | 4.545 | 5.525 | 9.911 | 15.338 | | |
| ANG | Quantity | 19 | - | 8 | - | 8 | 8 | 13 | 26 | 48 | | |
| | Total Obligation Authority | 5.752 | - | 2.214 | - | 2.214 | 2.747 | 4.175 | 7.491 | 14.630 | | |
| Total: Secondary Distribution | Quantity | 35 | 40 | 22 | - | 22 | 22 | 30 | 60 | 100 | | |
| | Total Obligation Authority | 10.196 | 12.483 | 6.081 | - | 6.081 | 7.292 | 9.700 | 17.402 | 29.968 | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 03: Modification of Missiles / BSA 10: Modifications | | | | | | P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: 0210600A, 0603778A, 0210608A | | | |
| 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 | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | C67501 / HIMARS Modifications (Operational, Reliability, Safety, Crew Survivability) | | | | 59 / 235.062 | 35 / 10.196 | 40 / 12.483 | 22 / 6.081 | - / - | 22 / 6.081 |
| P-40 | Total Gross/Weapon System Cost | | | | 59 / 235.062 | 35 / 10.196 | 40 / 12.483 | 22 / 6.081 | - / - | 22 / 6.081 |

| Exhibits Schedule | | | | | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
|-------------------|--|-------------|-------|----------------|--|--|--|--|--|--|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | C67501 / HIMARS Modifications (Operational, Reliability, Safety, Crew Survivability) | | | | 22 / 7.292 | 30 / 9.700 | 60 / 17.402 | 100 / 29.968 | Continuing | Continuing |
| P-40 | Total Gross/Weapon System Cost | | | | 22 / 7.292 | 30 / 9.700 | 60 / 17.402 | 100 / 29.968 | 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:

FY2021 Base procurement dollars in the amount of \$6.081 million support obsolescence mitigation and other design modifications of the M142 High Mobility Artillery Rocket System (HIMARS) fleet. HIMARS Modifications funding will include, but are not limited to, the following: updating the FMTV carrier and the Launcher-Loader Module drawing packages and Technical Data Packages through the prime contractor and the government product office; updating the Interactive Electronic Technical Manuals for Soldiers to perform operator maintenance; upgrading the Diagnostic Trainers and HIMARS Mock-up Trainer due to obsolescence. Software updates and Information Assurance requirements will be conducted to support fielding of Software Version 8.x. System engineering efforts will be conducted to sustain the system and to assess and conduct modifications such as long range communications, wireless vehicular intercom system, carrier, Launcher-Loader Module, and Fire Control System obsolescence. Base procurement dollars will also incorporate modifications with the HIMARS launcher to keep pace with the current and evolving threat.

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

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|--|--|--|--|---|--|--|----------------------------|--|--|--|--|
| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications | | | | Modification Number / Title: C67501 / HIMARS Modifications | | | |

| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | MDAP/MAIS Code: | | | | | | |
|---|-------------|---------|---------|--------------|-------------|-----------------|---------|---------|---------|---------|-------------|------------|
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity <i>(Units in Each)</i> | 59 | 35 | 40 | 22 | - | 22 | 22 | 30 | 60 | 100 | Continuing | Continuing |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | 235.062 | 10.196 | 12.483 | 6.081 | - | 6.081 | 7.292 | 9.700 | 17.402 | 29.968 | Continuing | Continuing |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | 235.062 | 10.196 | 12.483 | 6.081 | - | 6.081 | 7.292 | 9.700 | 17.402 | 29.968 | Continuing | Continuing |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority <i>(\$ in Millions)</i> | 235.062 | 10.196 | 12.483 | 6.081 | - | 6.081 | 7.292 | 9.700 | 17.402 | 29.968 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | 3,984.102 | 291.314 | 312.075 | 276.409 | - | 276.409 | 331.455 | 323.333 | 290.033 | 299.680 | Continuing | Continuing |

Description:

The M142 High Mobility Artillery Rocket System (HIMARS) launcher is a full-spectrum, combat-proven, all-weather, 24/7 lethal and responsive, precision strike weapon system. HIMARS provides critical missile precision strike, operational shaping fires, counter-fire, and close support destructive and suppressive fires. HIMARS is a C-130 or C-17 transportable, wheeled, indirect fire, rocket/missile launcher capable of firing one pod of precision rockets/missiles from the current and emerging Multiple Launch Rocket System (MLRS) Family of Munitions (MFOM), to include the Guided Multiple Launch Rocket System-Unitary (GMLRS-U), GMLRS Alternative Warhead, the Army Tactical Missile System (ATACMS) and future MFOM to include the Extended Range (ER) GMLRS, and the Precision Strike Missile (PrSM).

Mod 1 (M142 Mods). Modifications are needed to address safety, operational-related, chassis, and Command, Control, Communications, Computer, and Intelligence (C4I) obsolescence issues within the HIMARS fleet. Additionally, procures system-specific training devices required to support the HIMARS Vehicle and Maintainer training courses.

Army Acquisition Objective (AAO) is 363 HIMARS launchers. The end state Army Acquisition Objective after HIMARS Fleet Expansion will be 425 HIMARS launchers, but may be increased contingent on Army requirements.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|--|-----------------------------------|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|
| Army | Quantity | 16 | 40 | 14 | - | 14 | 14 | 17 | 34 | 52 |
| | Total Obligation Authority | 4.444 | 12.483 | 3.867 | - | 3.867 | 4.545 | 5.525 | 9.911 | 15.338 |
| ANG | Quantity | 19 | - | 8 | - | 8 | 8 | 13 | 26 | 48 |
| | Total Obligation Authority | 5.752 | - | 2.214 | - | 2.214 | 2.747 | 4.175 | 7.491 | 14.630 |
| Total: Secondary Distribution | Quantity | 35 | 40 | 22 | - | 22 | 22 | 30 | 60 | 100 |
| | Total Obligation Authority | 10.196 | 12.483 | 6.081 | - | 6.081 | 7.292 | 9.700 | 17.402 | 29.968 |

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|--|---------------------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|
| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | | | P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications | | | | | | Modification Number / Title: C67501 / HIMARS Modifications | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | MDAP/MAIS Code: | | | | | |
| Models of Systems Affected: M142 High Mobility Artillery Rocket System | | | | Modification Type: Operational, Reliability, Safety, Crew Survivability | | | | Related RDT&E PEs: | | | | | |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total | |
| | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | <i>Qty (Each) / Total Cost (\$ M)</i> | |
| Procurement | | | | | | | | | | | | | |
| <i>Modification Item 1 of 1:</i> M142 Mods | | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | | |
| Program Management | - / 1.300 | - / 1.326 | - / 1.353 | - / 1.262 | - / - | - / 1.262 | - / 1.401 | - / 1.426 | - / 1.446 | - / 2.461 | Continuing | Continuing | |
| Obsolescence Mitigation | - / 228.601 | - / 3.604 | - / 5.930 | - / 2.552 | - / - | - / 2.552 | - / 0.477 | - / 2.752 | - / 10.326 | - / 17.769 | Continuing | Continuing | |
| Industrial Facilities | - / 0.700 | - / 0.714 | - / 0.729 | - / 0.356 | - / - | - / 0.356 | - / 0.759 | - / 0.774 | - / 0.789 | - / 1.804 | Continuing | Continuing | |
| Peculiar Support Equipment | - / 0.175 | - / 0.179 | - / 0.183 | - / 0.089 | - / - | - / 0.089 | - / 0.191 | - / 0.195 | - / 0.199 | - / 1.203 | Continuing | Continuing | |
| Training | - / 0.661 | - / 0.675 | - / 0.689 | - / 0.336 | - / - | - / 0.336 | - / 0.718 | - / 0.732 | - / 0.746 | - / 1.760 | Continuing | Continuing | |
| Test & Evaluation (Acceptance Testing) | - / 1.200 | - / 1.224 | - / 1.249 | - / 0.609 | - / - | - / 0.609 | - / 1.300 | - / 1.326 | - / 1.352 | - / 1.378 | Continuing | Continuing | |
| Systems Engineering | - / 2.425 | - / 2.474 | - / 2.350 | - / 0.877 | - / - | - / 0.877 | - / 2.446 | - / 2.495 | - / 2.544 | - / 3.593 | Continuing | Continuing | |
| <i>Subtotal: Recurring</i> | - / 235.062 | - / 10.196 | - / 12.483 | - / 6.081 | - / - | - / 6.081 | - / 7.292 | - / 9.700 | - / 17.402 | - / 29.968 | Continuing | Continuing | |
| <i>Subtotal: M142 Mods</i> | - / 235.062 | - / 10.196 | - / 12.483 | - / 6.081 | - / - | - / 6.081 | - / 7.292 | - / 9.700 | - / 17.402 | - / 29.968 | Continuing | Continuing | |
| <i>Subtotal: Procurement, All Modification Items</i> | - / 235.062 | - / 10.196 | - / 12.483 | - / 6.081 | - / - | - / 6.081 | - / 7.292 | - / 9.700 | - / 17.402 | - / 29.968 | Continuing | Continuing | |
| Installation | | | | | | | | | | | | | |
| <i>Subtotal: Installation</i> | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | |
| Total | | | | | | | | | | | | | |
| Total Cost (Procurement + Support + Installation) | 235.062 | 10.196 | 12.483 | 6.081 | - | 6.081 | 7.292 | 9.700 | 17.402 | 29.968 | Continuing | Continuing | |

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| Exhibit P-3a, Individual Modification: PB 2021 Army | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 03 / 10 | | P-1 Line Item Number / Title: 6580C67501 / HIMARS Modifications | | | Modification Number / Title: C67501 / HIMARS Modifications | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | MDAP/MAIS Code: | | | |
| Modification Item 1 of 1: M142 Mods | | | | | | | |
| Manufacturer Information | | | | | | | |
| Manufacturer Name: Strategic and Operational Rocket & Missiles Project Office | | | | Manufacturer Location: Redstone Arsenal, AL | | | |
| 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): Field Artillery Launchers Product Office | | | | | Installation Quantity: 0 | | |
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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 04: Spares and Repair Parts / BSA 10: Spares And Repair Parts | | | | | | | P-1 Line Item Number / Title: 1242CA0250 / Spares And Repair Parts | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: N/A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 329.783 | 27.737 | 26.444 | 5.090 | - | 5.090 | 16.167 | 6.380 | 6.553 | 6.671 | Continuing | Continuing |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 329.783 | 27.737 | 26.444 | 5.090 | - | 5.090 | 16.167 | 6.380 | 6.553 | 6.671 | Continuing | Continuing |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 329.783 | 27.737 | 26.444 | 5.090 | - | 5.090 | 16.167 | 6.380 | 6.553 | 6.671 | Continuing | Continuing |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Description: FY 2021 funds provide for the procurement of spares to support initial fielding of new or modified end items. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | 27.737 | 26.444 | 5.090 | - | 5.090 | 16.167 | 6.380 | 6.553 | 6.671 | | |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | 27.737 | 26.444 | 5.090 | - | 5.090 | 16.167 | 6.380 | 6.553 | 6.671 | | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
|---|--|-------------|-------|---|--|--|--|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 04: Spares and Repair Parts / BSA 10: Spares And Repair Parts | | | | | | P-1 Line Item Number / Title: 1242CA0250 / Spares And Repair Parts | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: N/A | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | |
| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-40a | CA0267 / PATRIOT MODIFICATION INITIAL SPARES | | | | - / 329.783 | - / 27.737 | - / 26.444 | - / 5.090 | - / - | - / 5.090 |
| P-40 | Total Gross/Weapon System Cost | | | | - / 329.783 | - / 27.737 | - / 26.444 | - / 5.090 | - / - | - / 5.090 |
| <small>*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.</small> | | | | | | | | | | |
| <small>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</small> | | | | | | | | | | |

Justification:
 FY2021 procurement dollars in the amount of \$5.090 million support continuing acquisition of Patriot Modification Initial Spares. The funds in this account procure depot level repairable (DLR) secondary items from Supply Management, Army activities of the Army Working Capital Fund and commercial life cycle support vendors. To provide initial issue spares support, funds are required in the same year that end items are fielded.

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.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Army | | | | | | | | | | | | | | | Date: February 2020 | | | | | |
|---|-------|----------------|------------------|------------|-------------------|------------------|------------|---|------------------|------------|-------------------|------------------|------------|-------------------|--|------------|-------------------|------------------|------------|-------------------|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 04 / 10 | | | | | | | | P-1 Line Item Number / Title: 1242CA0250 / Spares And Repair Parts | | | | | | | Aggregated Items Title: CA0267 / PATRIOT MODIFICATION INITIAL SPARES | | | | | |
| Item Number / Title [DODIC] | ID CD | MDAP/MAIS Code | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
| | | | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| PATRIOT MODIFICATION INITIAL SPARES | | | | | | | | | | | | | | | | | | | | |
| CA0267 / PATRIOT MODIFICATION INITIAL SPARES | | | - | - | 329.783 | - | - | 27.737 | - | - | 26.444 | - | - | 5.090 | - | - | - | - | - | 5.090 |
| Secondary Distribution | | | | | | | | | | | | | | | | | | | | |
| Army | | | | - | - | | - | 27.737 | | - | 26.444 | | - | 5.090 | | - | - | | - | 5.090 |
| Subtotal: PATRIOT MODIFICATION INITIAL SPARES | | | - | - | 329.783 | - | - | 27.737 | - | - | 26.444 | - | - | 5.090 | - | - | - | - | - | 5.090 |
| Total | | | - | - | 329.783 | - | - | 27.737 | - | - | 26.444 | - | - | 5.090 | - | - | - | - | - | 5.090 |

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

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | Date: February 2020 |
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| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA 10: Support Equipment & Facilities | P-1 Line Item Number / Title: 1242C93000 / Air Defense Targets |
|---|--|

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

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
|--|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|-------------|---------|
| Procurement Quantity (<i>Units in Each</i>) | - | - | 394 | 538 | - | 538 | 539 | 527 | 530 | 524 | - | 3,052 |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 441.086 | 6.417 | 10.593 | 8.978 | - | 8.978 | 8.987 | 9.190 | 9.377 | 9.593 | - | 504.221 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 441.086 | 6.417 | 10.593 | 8.978 | - | 8.978 | 8.987 | 9.190 | 9.377 | 9.593 | - | 504.221 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 441.086 | 6.417 | 10.593 | 8.978 | - | 8.978 | 8.987 | 9.190 | 9.377 | 9.593 | - | 504.221 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | - | - | 26.886 | 16.688 | - | 16.688 | 16.673 | 17.438 | 17.692 | 18.307 | - | 165.210 |

Description:

Air Defense Artillery (ADA) Targets program procures target hardware and associated training services to include scoring, payload, and ground support equipment to enable Air Defense Artillery Soldiers and units to conduct required training. This training consists of Department of the Army Pamphlet (DA PAM) 350-38 (Standards in Training Commission) required gunnery tables and aerial target tracking, training, and scoring. Target systems are also available to support collective training exercises and Force Development Testing and Experimentation (FDT&E) investigations of engagement techniques for small unmanned aircraft systems.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|--|-----------------------------------|--------------|---------------|--------------|-------------|---------------|--------------|--------------|--------------|--------------|
| Army | Quantity | - | 394 | 538 | - | 538 | 539 | 527 | 530 | 524 |
| | Total Obligation Authority | 6.417 | 10.593 | 8.978 | - | 8.978 | 8.987 | 9.190 | 9.377 | 9.593 |
| Total: Secondary Distribution | Quantity | - | 394 | 538 | - | 538 | 539 | 527 | 530 | 524 |
| | Total Obligation Authority | 6.417 | 10.593 | 8.978 | - | 8.978 | 8.987 | 9.190 | 9.377 | 9.593 |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | Date: February 2020 | | |
|---|---------------------------------------|-------------|-------|---|--|--|--|--|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA 10: Support Equipment & Facilities | | | | | | P-1 Line Item Number / Title: 1242C93000 / Air Defense Targets | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | Other Related Program Elements: N/A | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | |
| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/MAIS Code | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-5 | C93000 / Air Defense Targets | P-5a | | | - / 441.086 | - / 6.417 | 394 / 10.593 | 538 / 8.978 | - / - | 538 / 8.978 |
| P-40 | Total Gross/Weapon System Cost | | | | - / 441.086 | - / 6.417 | 394 / 10.593 | 538 / 8.978 | - / - | 538 / 8.978 |
| <p><small>*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.</small></p> <p><small>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</small></p> | | | | | | | | | | |
| <p>Justification:</p> <p>FY 2021 Base procurement dollars in the amount of \$8.978 million supports Air Defense Artillery Targets and scoring, payload, and ground support equipment for training required in DA PAM 350-38, Standards in Training Commission (STRAC). These items support gunnery tables, aerial target tracking (Captive Flight Trainer (CFT) and Tracking Head Trainer (THT) 5.56) training, Missile Live Fire training when missiles are allocated in accordance with (IAW) the Missile Distribution Plan, and U.S. Army Avenger systems worldwide. Training requirements are generated by Department of the Army Major Field Commands, Training Centers, Division Level Commands, and real world mission rehearsals. These field requirements have been reviewed and validated against ongoing force restructuring and are consistent with the approved training doctrine. These targets are necessary to meet Army Regulation 220-1 (Unit Status Reporting) training requirements, training strategies and gunnery standards, and soldier qualification in support of unit readiness.</p> <p>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.</p> | | | | | | | | | | |

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| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | | | | Date: February 2020 | | | | | | | | |
|--|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---|---------------|----------------------|---------------------|---------------|----------------------|--|---------------|----------------------|---------------------|---------------|----------------------|---------------|--|--|
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10 | | | | | | | P-1 Line Item Number / Title: 1242C93000 / Air Defense Targets | | | | | | Item Number / Title [DODIC]: C93000 / Air Defense Targets | | | | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready) : | | | | | | | | | | MDAP/MAIS Code: | | | | | | | | | | | |
| Resource Summary | | | | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
| Procurement Quantity <i>(Units in Each)</i> | | | | - | | | - | | | 394 | | | 538 | | | - | | | 538 | | |
| Gross/Weapon System Cost <i>(\$ in Millions)</i> | | | | 441.086 | | | 6.417 | | | 10.593 | | | 8.978 | | | - | | | 8.978 | | |
| Less PY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | | - | | | - | | | - | | | - | | | - | | |
| Net Procurement (P-1) <i>(\$ in Millions)</i> | | | | 441.086 | | | 6.417 | | | 10.593 | | | 8.978 | | | - | | | 8.978 | | |
| Plus CY Advance Procurement <i>(\$ in Millions)</i> | | | | - | | | - | | | - | | | - | | | - | | | - | | |
| Total Obligation Authority <i>(\$ in Millions)</i> | | | | 441.086 | | | 6.417 | | | 10.593 | | | 8.978 | | | - | | | 8.978 | | |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) | | | | | | | | | | | | | | | | | | | | | |
| Initial Spares <i>(\$ in Millions)</i> | | | | - | | | - | | | - | | | - | | | - | | | - | | |
| Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i> | | | | - | | | - | | | 26.886 | | | 16.688 | | | - | | | 16.688 | | |
| 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | | | |
| Flyaway Cost | | | | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | | | | |
| Remotely Piloted Vehicle Target (RPVT) ^(†) | 551.380 | 789 | 435.039 | 6.756 | 394 | 2.662 | 6.962 | 394 | 2.743 | 7.171 | 539 | 3.865 | - | - | - | 7.171 | 539 | 3.865 | | | |
| Infrared Kit Payload ^(†) | 0.277 | 788 | 0.218 | 0.322 | 394 | 0.127 | 0.332 | 394 | 0.131 | 0.341 | 539 | 0.184 | - | - | - | 0.341 | 539 | 0.184 | | | |
| Launcher ^(†) | 27.286 | 7 | 0.191 | 30.000 | 4 | 0.120 | 31.000 | 5 | 0.155 | 32.000 | 1 | 0.032 | - | - | - | 32.000 | 1 | 0.032 | | | |
| Manual Navigation GCS ^(†) | 10.429 | 14 | 0.146 | 11.857 | 14 | 0.166 | 12.214 | 14 | 0.171 | 12.600 | 5 | 0.063 | - | - | - | 12.600 | 5 | 0.063 | | | |
| BVR Navigation GCS ^(†) | 27.000 | 4 | 0.108 | 30.750 | 4 | 0.123 | 31.750 | 4 | 0.127 | 32.700 | 10 | 0.327 | - | - | - | 32.700 | 10 | 0.327 | | | |
| BVR Payload ^(†) | 12.063 | 48 | 0.579 | 13.700 | 20 | 0.274 | 14.100 | 20 | 0.282 | 14.519 | 27 | 0.392 | - | - | - | 14.519 | 27 | 0.392 | | | |
| Acoustic Scoring Payload ^(†) | 13.580 | 50 | 0.679 | 13.393 | 28 | 0.375 | 13.786 | 28 | 0.386 | 14.200 | 50 | 0.710 | - | - | - | 14.200 | 50 | 0.710 | | | |
| Acoustic Scoring GCS ^(†) | 43.000 | 8 | 0.344 | 47.778 | 9 | 0.430 | 49.222 | 9 | 0.443 | 51.000 | 2 | 0.102 | - | - | - | 51.000 | 2 | 0.102 | | | |
| Radar Scoring Payload ^(†) | 16.900 | 20 | 0.338 | 18.750 | 20 | 0.375 | 19.300 | 20 | 0.386 | 20.000 | 40 | 0.800 | - | - | - | 20.000 | 40 | 0.800 | | | |
| Radar Scoring GCS ^(†) | - | - | - | 17.000 | 1 | 0.017 | 18.000 | 1 | 0.018 | 18.500 | 2 | 0.037 | - | - | - | 18.500 | 2 | 0.037 | | | |
| RPVT Lighting Kit Payload ^(†) | 0.286 | 56 | 0.016 | 0.323 | 31 | 0.010 | 0.323 | 31 | 0.010 | 0.333 | 45 | 0.015 | - | - | - | 0.333 | 45 | 0.015 | | | |
| Program Management Support | 1,588.000 | 2 | 3.176 | 1,646.000 | 1 | 1.646 | 1,815.000 | 1 | 1.815 | 2,132.000 | 1 | 2.132 | - | - | - | 2,132.000 | 1 | 2.132 | | | |

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|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|
| Exhibit P-5, Cost Analysis: PB 2021 Army | | | | | | | | | | Date: February 2020 | | | | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10 | | | | | P-1 Line Item Number / Title: 1242C93000 / Air Defense Targets | | | | | Item Number / Title [DODIC]: C93000 / Air Defense Targets | | | | | | | |

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

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

| Cost Elements | Prior Years | | | FY 2019 | | | FY 2020 | | | FY 2021 Base | | | FY 2021 OCO | | | FY 2021 Total | | |
|---|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|---------------------|---------------|----------------------|
| | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ K) | Qty (Each) | Total Cost (\$ M) |
| Smoke Generator Payload ^(†) | 0.412 | 34 | 0.014 | 0.474 | 19 | 0.009 | - | - | - | 0.500 | 30 | 0.015 | - | - | - | 0.500 | 30 | 0.015 |
| Over the Horizon BVR Payload ^(†) | 23.900 | 10 | 0.239 | 20.750 | 4 | 0.083 | - | - | - | 20.000 | 15 | 0.300 | - | - | - | 20.000 | 15 | 0.300 |
| <i>Subtotal: Recurring Cost</i> | - | - | 441.087 | - | - | 6.417 | - | - | 6.667 | - | - | 8.974 | - | - | - | - | - | 8.974 |
| <i>Subtotal: Flyaway Cost</i> | - | - | 441.087 | - | - | 6.417 | - | - | 6.667 | - | - | 8.974 | - | - | - | - | - | 8.974 |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Technical Refresh - Windows OS Update | - | - | - | - | - | - | 3,926.000 | 1 | 3.926 | 4.000 | 1 | 0.004 | - | - | - | 4.000 | 1 | 0.004 |
| <i>Subtotal: Recurring Cost</i> | - | - | - | - | - | - | - | - | 3.926 | - | - | 0.004 | - | - | - | - | - | 0.004 |
| <i>Subtotal: Software Cost</i> | - | - | - | - | - | - | - | - | 3.926 | - | - | 0.004 | - | - | - | - | - | 0.004 |
| Gross/Weapon System Cost | - | - | 441.086 | - | - | 6.417 | 26.886 | 394 | 10.593 | 16.688 | 538 | 8.978 | - | - | - | 16.688 | 538 | 8.978 |

Remarks:

FY 2020 increase in unit cost for Windows Operating System upgrade, which is necessary to maintain the system's authority to operate.

| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|--------------------------------------|----------------------------|---------|---------|--------------|-------------|---------------|
| Army | Quantity | - | 394 | 538 | - | 538 |
| | Total Obligation Authority | 6.417 | 10.593 | 8.978 | - | 8.978 |
| Total: Secondary Distribution | Quantity | - | 394 | 538 | - | 538 |
| | Total Obligation Authority | 6.417 | 10.593 | 8.978 | - | 8.978 |

^(†) 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: 2032A / 05 / 10 | | | P-1 Line Item Number / Title: 1242C93000 / Air Defense Targets | | | | | Item Number / Title [DODIC]: C93000 / Air Defense Targets | | | | |
| Cost Elements | O C 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 |
| Remotely Piloted Vehicle Target (RPVT) | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 394 | 5.992 | Y | | |
| Remotely Piloted Vehicle Target (RPVT) | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 394 | 6.756 | Y | | |
| Remotely Piloted Vehicle Target (RPVT) | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 394 | 6.962 | Y | | |
| Remotely Piloted Vehicle Target (RPVT) | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PEO-STRI | Dec 2020 | Apr 2021 | 539 | 7.171 | Y | | |
| Infrared Kit Payload | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 394 | 0.284 | Y | | |
| Infrared Kit Payload | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 394 | 0.322 | Y | | |
| Infrared Kit Payload | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 394 | 0.332 | Y | | |
| Infrared Kit Payload | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PEO-STRI | Dec 2020 | Apr 2021 | 539 | 0.341 | Y | | |
| Launcher | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 4 | 27.250 | Y | | |
| Launcher | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 4 | 30.000 | Y | | |
| Launcher | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 5 | 31.000 | Y | | |
| Launcher | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PEO-STRI | Dec 2020 | Jun 2021 | 1 | 32.000 | Y | | |
| Manual Navigation GCS | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 14 | 10.429 | Y | | |
| Manual Navigation GCS | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 14 | 11.857 | Y | | |
| Manual Navigation GCS | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 14 | 12.214 | Y | | |
| Manual Navigation GCS | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PEO STRI | Dec 2020 | Jun 2021 | 5 | 12.600 | Y | | |
| BVR Navigation GCS | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 4 | 27.000 | Y | | |
| BVR Navigation GCS | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 4 | 30.750 | Y | | |
| BVR Navigation GCS | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 4 | 31.750 | Y | | |
| BVR Navigation GCS | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PEO STRI | Dec 2020 | Jul 2021 | 10 | 32.700 | Y | | |
| BVR Payload | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 16 | 12.063 | Y | | |
| BVR Payload | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 20 | 13.700 | Y | | |
| BVR Payload | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 20 | 14.100 | Y | | |
| BVR Payload | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PEO STRI | Dec 2020 | Jul 2021 | 27 | 14.519 | Y | | |
| Acoustic Scoring Payload | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 24 | 13.792 | Y | | |
| Acoustic Scoring Payload | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 28 | 13.393 | Y | | |
| Acoustic Scoring Payload | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 28 | 13.786 | Y | | |
| Acoustic Scoring Payload | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PE STRI | Dec 2020 | Jul 2021 | 50 | 14.200 | Y | | |
| Acoustic Scoring GCS | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 8 | 43.000 | Y | | |
| Acoustic Scoring GCS | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 9 | 47.778 | Y | | |
| Acoustic Scoring GCS | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 9 | 49.222 | Y | | |

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Army | | | | | | | | Date: February 2020 | | | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A / 05 / 10 | | | | P-1 Line Item Number / Title: 1242C93000 / Air Defense Targets | | | | Item Number / Title [DODIC]: C93000 / Air Defense Targets | | | | |

| Cost Elements | O C 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 |
|------------------------------|-------------|------|--------------------------------------|--------------------------------------|-----------------|---------------|------------------------------|---------------|---------------------|------------------------|-------------------------------|-------------------|
| Acoustic Scoring GCS | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PEO STRI | Dec 2020 | Jul 2021 | 2 | 51.000 | Y | | |
| Radar Scoring Payload | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 20 | 16.900 | Y | | |
| Radar Scoring Payload | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 20 | 18.750 | Y | | |
| Radar Scoring Payload | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Dec 2021 | 20 | 19.300 | Y | | |
| Radar Scoring Payload | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2021 | Dec 2021 | 40 | 20.000 | Y | | |
| Radar Scoring GCS | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 0 | 0.000 | Y | | |
| Radar Scoring GCS | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 1 | 17.000 | Y | | |
| Radar Scoring GCS | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 1 | 18.000 | Y | | |
| Radar Scoring GCS | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PEO STRI | Dec 2020 | Dec 2021 | 2 | 18.500 | Y | | |
| RPVT Lighting Kit Payload | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 22 | 0.273 | Y | | |
| RPVT Lighting Kit Payload | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 31 | 0.323 | Y | | |
| RPVT Lighting Kit Payload | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 31 | 0.323 | Y | | |
| RPVT Lighting Kit Payload | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PEO STRI | Dec 2020 | May 2021 | 45 | 0.333 | Y | | |
| Smoke Generator Payload | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 19 | 0.421 | Y | | |
| Smoke Generator Payload | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 19 | 0.474 | Y | | |
| Smoke Generator Payload | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 0 | 0.000 | Y | | |
| Smoke Generator Payload | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PEO STRI | Dec 2020 | May 2021 | 30 | 0.500 | Y | | |
| Over the Horizon BVR Payload | | 2018 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2018 | Jun 2018 | 4 | 19.000 | Y | | |
| Over the Horizon BVR Payload | | 2019 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2019 | Jun 2019 | 4 | 20.750 | Y | | |
| Over the Horizon BVR Payload | | 2020 | Griffon Aerospace Inc. / Madison, AL | C / FFP | AMCOM | Mar 2020 | Jun 2020 | 0 | 0.000 | Y | | |
| Over the Horizon BVR Payload | | 2021 | Griffon Aerospace Inc. / Madison, AL | C / FFP | PEO STRI | Dec 2020 | Jul 2021 | 15 | 20.000 | Y | | |

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|--|-----------------------------------|----------------|----------------|---|--------------------|----------------------|--|--|----------------|----------------------------|--------------------|----------------|
| Exhibit P-40, Budget Line Item Justification: PB 2021 Army | | | | | | | | | | Date: February 2020 | | |
| Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 05: Support Equipment and Facilities / BSA 10: Support Equipment & Facilities | | | | | | | P-1 Line Item Number / Title: 4662CA0100 / Production Base Support | | | | | |
| ID Code (A=Service Ready, B=Not Service Ready): | | | | Program Elements for Code B Items: N/A | | | | Other Related Program Elements: N/A | | | | |
| Line Item MDAP/MAIS Code: N/A | | | | | | | | | | | | |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (<i>Units in Each</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (<i>\$ in Millions</i>) | 371.216 | 1.202 | - | - | - | - | - | - | - | - | - | 372.418 |
| Less PY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (<i>\$ in Millions</i>) | 371.216 | 1.202 | - | - | - | - | - | - | - | - | - | 372.418 |
| Plus CY Advance Procurement (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (<i>\$ in Millions</i>) | 371.216 | 1.202 | - | - | - | - | - | - | - | - | - | 372.418 |
| <i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i> | | | | | | | | | | | | |
| Initial Spares (<i>\$ in Millions</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>) | - | - | - | - | - | - | - | - | - | - | - | - |
| Description: | | | | | | | | | | | | |
| This program provided funding to the Army Test and Evaluation Command (ATEC), which modernized test facilities used in production testing of missiles and missile components. It sustained Army production test capabilities through upgrade and replacement of instrumentation and equipment that were technologically and/or economically obsolete. Modernization of test instrumentation and equipment provided increased automation and efficiencies, improved data quality and quantity, and cost avoidance to Army Program Managers. Programmed funding was used to upgrade or replace production test instrumentation and equipment at the White Sands Test Center (WSTC), White Sands Missile Range, New Mexico and Redstone Test Center (RTC), Huntsville, Alabama. | | | | | | | | | | | | |
| Secondary Distribution | | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | | |
| Army | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | 1.202 | - | - | - | - | - | - | - | - | - | |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - | - | |
| | Total Obligation Authority | 1.202 | - | - | - | - | - | - | - | - | - | |
| Justification: | | | | | | | | | | | | |
| 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. | | | | | | | | | | | | |