UNCLASSIFIED

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

February 2020

## Navy

*Justification Book Volume 3 of 3*

## *Aircraft Procurement, Navy*

## Budget Activities 06−07

UNCLASSIFIED

The estimated cost of this report for the Department of the Navy (DON) is $10,415.

The estimated total cost for supporting the DON budget justification material is approximately $2,970,459 for the 2020 fiscal year. This includes $82,977 in supplies and $2,887,482 in labor.

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## Aircraft Procurement, Navy

For construction, procurement, production, modification, and modernization of aircraft, 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 thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway, $17,160,619,000, to remain available for obligation until September 30, 2023.

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

- OCO for Direct War Costs ($33,241,000): 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.

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

| Appropriation | FY 2019 (Base + OCO) | FY 2020 Base Enacted | FY 2020 Emergency | FY 2020 OCO Enacted |
|---|---|---|---|---|
| Aircraft Procurement, Navy | 20,264,005 | 19,605,513 | | 95,153 |
| Total Department of the Navy | 20,264,005 | 19,605,513 | | 95,153 |

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

| Appropriation | FY 2020 Total Enacted (Base+Emerg+ OCO) | FY 2021 Base | FY 2021 OCO for Base Requirements | FY 2021 OCO for Direct War and Enduring Costs |
|---|---|---|---|---|
| Aircraft Procurement, Navy | 19,700,666 | 17,127,378 | | 33,241 |
| Total Department of the Navy | 19,700,666 | 17,127,378 | | 33,241 |

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

| Appropriation | FY 2021 Total OCO | FY 2021 Total (Base + OCO) |
|---|---|---|
| Aircraft Procurement, Navy | 33,241 | 17,160,619 |
| Total Department of the Navy | 33,241 | 17,160,619 |

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

Appropriation: Aircraft Procurement, Navy

| Budget Activity | FY 2019 (Base + OCO) | FY 2020 Base Enacted | FY 2020 Emergency | FY 2020 OCO Enacted |
|---|---|---|---|---|
| 01. Combat Aircraft | 13,245,998 | 11,704,149 | | |
| 03. Trainer Aircraft | | 247,265 | | |
| 04. Other Aircraft | 1,640,192 | 1,535,519 | | 61,029 |
| 05. Modification of Aircraft | 3,166,154 | 3,262,529 | | 34,124 |
| 06. Aircraft Spares and Repair Parts | 1,678,794 | 2,168,602 | | |
| 07. Aircraft Support Equip & Facilities | 532,867 | 687,449 | | |
| Total Aircraft Procurement, Navy | 20,264,005 | 19,605,513 | | 95,153 |

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

Appropriation: Aircraft Procurement, Navy

| Budget Activity | FY 2020 Total Enacted (Base+Emerg+ OCO) | FY 2021 Base | FY 2021 OCO for Base Requirements | FY 2021 OCO for Direct War and Enduring Costs |
|---|---|---|---|---|
| 01. Combat Aircraft | 11,704,149 | 8,511,268 | | |
| 03. Trainer Aircraft | 247,265 | 269,867 | | |
| 04. Other Aircraft | 1,596,548 | 1,280,112 | | 7,921 |
| 05. Modification of Aircraft | 3,296,653 | 4,029,300 | | 25,320 |
| 06. Aircraft Spares and Repair Parts | 2,168,602 | 2,198,460 | | |
| 07. Aircraft Support Equip & Facilities | 687,449 | 838,371 | | |
| Total Aircraft Procurement, Navy | 19,700,666 | 17,127,378 | | 33,241 |

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

Appropriation: Aircraft Procurement, Navy

| Budget Activity | FY 2021 Total OCO | FY 2021 Total (Base + OCO) |
|---|---|---|
| 01. Combat Aircraft | | 8,511,268 |
| 03. Trainer Aircraft | | 269,867 |
| 04. Other Aircraft | 7,921 | 1,288,033 |
| 05. Modification of Aircraft | 25,320 | 4,054,620 |
| 06. Aircraft Spares and Repair Parts | | 2,198,460 |
| 07. Aircraft Support Equip & Facilities | | 838,371 |
| Total Aircraft Procurement, Navy | 33,241 | 17,160,619 |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2019 (Base + OCO) Quantity | FY 2019 (Base + OCO) Cost | FY 2020 Base Enacted Quantity | FY 2020 Base Enacted Cost | FY 2020 Emergency Quantity | FY 2020 Emergency Cost | FY 2020 OCO Enacted Quantity | FY 2020 OCO Enacted Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Budget Activity 01: Combat Aircraft** | | | | | | | | | | |
| | Combat Aircraft | | | | | | | | | | |
| 1 | F/A-18E/F (Fighter) Hornet | A | 24 | (1,922,275) | 24 | (1,762,775) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-52,971) | | (-53,977) | | | | | U |
| | | | | 1,869,304 | | 1,708,798 | | | | | |
| 2 | F/A-18E/F (Fighter) Hornet | | | | | | | | | | |
| | Advance Procurement (CY) | | | 53,977 | | 53,154 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | (53,977) | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | (53,154) | | | | | |
| 3 | Joint Strike Fighter CV | A | 15 | (2,254,122) | 20 | (2,321,012) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-196,411) | | (-206,711) | | | | | U |
| | | | | 2,057,711 | | 2,114,301 | | | | | |
| 4 | Joint Strike Fighter CV | | | | | | | | | | |
| | Advance Procurement (CY) | | | 140,010 | | 339,053 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | (140,010) | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | (280,530) | | | | | |
| | C (FY 2020 for FY 2022) (M) | | | | | (30,834) | | | | | |
| | C (FY 2020 for FY 2023) (M) | | | | | (27,689) | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | | | | | | |
| | C (FY 2021 for FY 2023) (M) | | | | | | | | | | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2020 Total Enacted (Base+Emerg+ OCO) Quantity | FY 2020 Total Enacted (Base+Emerg+ OCO) Cost | FY 2021 Base Quantity | FY 2021 Base Cost | FY 2021 OCO for Base Requirements Quantity | FY 2021 OCO for Base Requirements Cost | FY 2021 OCO for Direct War and Enduring Costs Quantity | FY 2021 OCO for Direct War and Enduring Costs Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Budget Activity 01: Combat Aircraft** | | | | | | | | | | |
| | **Combat Aircraft** | | | | | | | | | | |
| 1 | F/A-18E/F (Fighter) Hornet | A | 24 | (1,762,775) | 24 | (1,814,300) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-53,977) | | (-53,154) | | | | | U |
| | | | | 1,708,798 | | 1,761,146 | | | | | |
| 2 | F/A-18E/F (Fighter) Hornet | | | | | | | | | | |
| | Advance Procurement (CY) | | | 53,154 | | | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | (53,154) | | | | | | | |
| 3 | Joint Strike Fighter CV | A | 20 | (2,321,012) | 21 | (2,462,310) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-206,711) | | (-280,530) | | | | | U |
| | | | | 2,114,301 | | 2,181,780 | | | | | |
| 4 | Joint Strike Fighter CV | | | | | | | | | | |
| | Advance Procurement (CY) | | | 339,053 | | 330,386 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | (280,530) | | | | | | | |
| | C (FY 2020 for FY 2022) (M) | | | (30,834) | | | | | | | |
| | C (FY 2020 for FY 2023) (M) | | | (27,689) | | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (253,609) | | | | | |
| | C (FY 2021 for FY 2023) (M) | | | | | (76,777) | | | | | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2021 Total OCO Quantity | FY 2021 Total OCO Cost | FY 2021 Total (Base + OCO) Quantity | FY 2021 Total (Base + OCO) Cost | Sec |
|---|---|---|---|---|---|---|---|
| | **Budget Activity 01: Combat Aircraft** | | | | | | |
| | Combat Aircraft | | | | | | |
| 1 | F/A-18E/F (Fighter) Hornet | A | | | 24 | (1,814,300) | U |
| | Less: Advance Procurement (PY) | | | | | (-53,154) | U |
| | | | | ---------- | | ---------- | |
| | | | | | | 1,761,146 | |
| 2 | F/A-18E/F (Fighter) Hornet | | | | | | |
| | Advance Procurement (CY) | | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | | |
| 3 | Joint Strike Fighter CV | A | | | 21 | (2,462,310) | U |
| | Less: Advance Procurement (PY) | | | | | (-280,530) | U |
| | | | | ---------- | | ---------- | |
| | | | | | | 2,181,780 | |
| 4 | Joint Strike Fighter CV | | | | | | |
| | Advance Procurement (CY) | | | | | 330,386 | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | | |
| | C (FY 2020 for FY 2022) (M) | | | | | | |
| | C (FY 2020 for FY 2023) (M) | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (253,609) | |
| | C (FY 2021 for FY 2023) (M) | | | | | (76,777) | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2019 (Base + OCO) Quantity | FY 2019 (Base + OCO) Cost | FY 2020 Base Enacted Quantity | FY 2020 Base Enacted Cost | FY 2020 Emergency Quantity | FY 2020 Emergency Cost | FY 2020 OCO Enacted Quantity | FY 2020 OCO Enacted Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | JSF STOVL | | 22 | (2,943,711) | 16 | (2,217,079) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-322,264) | | (-319,678) | | | | | U |
| | | | | 2,621,447 | | 1,897,401 | | | | | |
| 6 | JSF STOVL | | | | | | | | | | |
| | Advance Procurement (CY) | | | 228,492 | | 291,804 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | (228,492) | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | (249,554) | | | | | |
| | C (FY 2020 for FY 2022) (M) | | | | | (21,125) | | | | | |
| | C (FY 2020 for FY 2023) (M) | | | | | (21,125) | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | | | | | | |
| | C (FY 2021 for FY 2023) (M) | | | | | | | | | | |
| 7 | CH-53K (Heavy Lift) | A | 7 | (1,134,645) | 6 | (1,008,671) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-127,046) | | (-161,079) | | | | | U |
| | | | | 1,007,599 | | 847,592 | | | | | |
| 8 | CH-53K (Heavy Lift) | | | | | | | | | | |
| | Advance Procurement (CY) | | | 161,079 | | 215,014 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | (161,079) | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | (215,014) | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | | | | | | |
| 9 | V-22 (Medium Lift) | | 13 | (1,157,717) | 14 | (1,266,314) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-23,380) | | (-28,755) | | | | | U |
| | | | | 1,134,337 | | 1,237,559 | | | | | |
| 10 | V-22 (Medium Lift) | | | | | | | | | | |
| | Advance Procurement (CY) | | | 28,755 | | 26,083 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | (28,755) | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | (26,083) | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | | | | | | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2020 Total Enacted (Base+Emerg+ OCO) Quantity | FY 2020 Total Enacted (Base+Emerg+ OCO) Cost | FY 2021 Base Quantity | FY 2021 Base Cost | FY 2021 OCO for Base Requirements Quantity | FY 2021 OCO for Base Requirements Cost | FY 2021 OCO for Direct War and Enduring Costs Quantity | FY 2021 OCO for Direct War and Enduring Costs Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | JSF STOVL | | 16 | (2,217,079) | 10 | (1,358,947) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-319,678) | | (-249,554) | | | | | U |
| | | | | 1,897,401 | | 1,109,393 | | | | | |
| 6 | JSF STOVL | | | | | | | | | | |
| | Advance Procurement (CY) | | | 291,804 | | 303,035 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | (249,554) | | | | | | | |
| | C (FY 2020 for FY 2022) (M) | | | (21,125) | | | | | | | |
| | C (FY 2020 for FY 2023) (M) | | | (21,125) | | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (239,660) | | | | | |
| | C (FY 2021 for FY 2023) (M) | | | | | (63,375) | | | | | |
| 7 | CH-53K (Heavy Lift) | A | 6 | (1,008,671) | 7 | (1,028,338) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-161,079) | | (-215,014) | | | | | U |
| | | | | 847,592 | | 813,324 | | | | | |
| 8 | CH-53K (Heavy Lift) | | | | | | | | | | |
| | Advance Procurement (CY) | | | 215,014 | | 201,188 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | (215,014) | | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (201,188) | | | | | |
| 9 | V-22 (Medium Lift) | | 14 | (1,266,314) | 9 | (960,876) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-28,755) | | (-26,083) | | | | | U |
| | | | | 1,237,559 | | 934,793 | | | | | |
| 10 | V-22 (Medium Lift) | | | | | | | | | | |
| | Advance Procurement (CY) | | | 26,083 | | 39,547 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | (26,083) | | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (39,547) | | | | | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2021 Total OCO Quantity | FY 2021 Total OCO Cost | FY 2021 Total (Base + OCO) Quantity | FY 2021 Total (Base + OCO) Cost | Sec |
|---|---|---|---|---|---|---|---|
| 5 | JSF STOVL | | | | 10 | (1,358,947) | U |
| | Less: Advance Procurement (PY) | | | | | (-249,554) | U |
| | | | | ---------- | | ---------- | |
| | | | | | | 1,109,393 | |
| 6 | JSF STOVL | | | | | | |
| | Advance Procurement (CY) | | | | | 303,035 | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | | |
| | C (FY 2020 for FY 2022) (M) | | | | | | |
| | C (FY 2020 for FY 2023) (M) | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (239,660) | |
| | C (FY 2021 for FY 2023) (M) | | | | | (63,375) | |
| 7 | CH-53K (Heavy Lift) | A | | | 7 | (1,028,338) | U |
| | Less: Advance Procurement (PY) | | | | | (-215,014) | U |
| | | | | ---------- | | ---------- | |
| | | | | | | 813,324 | |
| 8 | CH-53K (Heavy Lift) | | | | | | |
| | Advance Procurement (CY) | | | | | 201,188 | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (201,188) | |
| 9 | V-22 (Medium Lift) | | | | 9 | (960,876) | U |
| | Less: Advance Procurement (PY) | | | | | (-26,083) | U |
| | | | | ---------- | | ---------- | |
| | | | | | | 934,793 | |
| 10 | V-22 (Medium Lift) | | | | | | |
| | Advance Procurement (CY) | | | | | 39,547 | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (39,547) | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2019 (Base + OCO) Quantity | FY 2019 (Base + OCO) Cost | FY 2020 Base Enacted Quantity | FY 2020 Base Enacted Cost | FY 2020 Emergency Quantity | FY 2020 Emergency Cost | FY 2020 OCO Enacted Quantity | FY 2020 OCO Enacted Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | H-1 Upgrades (UH-1Y/AH-1Z) | A | 25 | (782,437) | | (43,982) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-42,082) | | | | | | | U |
| | | | | 740,355 | | 43,982 | | | | | |
| 12 | MH-60R (MYP) | A | | | | 894 | | | | | U |
| 13 | P-8A Poseidon | A | 10 | (1,865,465) | 9 | (1,848,073) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-146,612) | | (-180,000) | | | | | U |
| | | | | 1,718,853 | | 1,668,073 | | | | | |
| 14 | P-8A Poseidon | | | | | | | | | | |
| | Advance Procurement (CY) | | | 180,000 | | | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | (180,000) | | | | | | | |
| 15 | E-2D Adv Hawkeye | A | 6 | (1,143,116) | 6 | (1,201,365) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-99,771) | | (-131,128) | | | | | U |
| | | | | 1,043,345 | | 1,070,237 | | | | | |
| 16 | E-2D Adv Hawkeye | | | | | | | | | | |
| | Advance Procurement (CY) | | | 260,734 | | 190,204 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | (131,128) | | | | | | | |
| | C (FY 2019 for FY 2021) (M) | | | (43,202) | | | | | | | |
| | C (FY 2019 for FY 2022) (M) | | | (43,202) | | | | | | | |
| | C (FY 2019 for FY 2023) (M) | | | (43,202) | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | (122,290) | | | | | |
| | C (FY 2020 for FY 2022) (M) | | | | | (33,957) | | | | | |
| | C (FY 2020 for FY 2023) (M) | | | | | (33,957) | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | | | | | | |
| | C (FY 2021 for FY 2023) (M) | | | | | | | | | | |
| Total Combat Aircraft | | | | 13,245,998 | | 11,704,149 | | | | | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2020 Total Enacted (Base+Emerg+ OCO) Quantity | FY 2020 Total Enacted (Base+Emerg+ OCO) Cost | FY 2021 Base Quantity | FY 2021 Base Cost | FY 2021 OCO for Base Requirements Quantity | FY 2021 OCO for Base Requirements Cost | FY 2021 OCO for Direct War and Enduring Costs Quantity | FY 2021 OCO for Direct War and Enduring Costs Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | H-1 Upgrades (UH-1Y/AH-1Z) | A | | (43,982) | | (7,267) | | | | | U |
| | Less: Advance Procurement (PY) | | | | | | | | | | U |
| | | | | --- | | --- | | --- | | --- | |
| | | | | 43,982 | | 7,267 | | | | | |
| 12 | MH-60R (MYP) | A | | 894 | | | | | | | U |
| 13 | P-8A Poseidon | A | 9 | (1,848,073) | | (80,134) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-180,000) | | | | | | | U |
| | | | | --- | | --- | | --- | | --- | |
| | | | | 1,668,073 | | 80,134 | | | | | |
| 14 | P-8A Poseidon | | | | | | | | | | |
| | Advance Procurement (CY) | | | | | | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | | | | | |
| 15 | E-2D Adv Hawkeye | A | 6 | (1,201,365) | 4 | (791,601) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-131,128) | | (-165,492) | | | | | U |
| | | | | --- | | --- | | --- | | --- | |
| | | | | 1,070,237 | | 626,109 | | | | | |
| 16 | E-2D Adv Hawkeye | | | | | | | | | | |
| | Advance Procurement (CY) | | | 190,204 | | 123,166 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | | | | | |
| | C (FY 2019 for FY 2021) (M) | | | | | | | | | | |
| | C (FY 2019 for FY 2022) (M) | | | | | | | | | | |
| | C (FY 2019 for FY 2023) (M) | | | | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | (122,290) | | | | | | | |
| | C (FY 2020 for FY 2022) (M) | | | (33,957) | | | | | | | |
| | C (FY 2020 for FY 2023) (M) | | | (33,957) | | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (117,697) | | | | | |
| | C (FY 2021 for FY 2023) (M) | | | | | (5,469) | | | | | |
| | | | | --- | | --- | | --- | | --- | |
| Total Combat Aircraft | | | | 11,704,149 | | 8,511,268 | | | | | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2021 Total OCO Quantity | FY 2021 Total OCO Cost | FY 2021 Total (Base + OCO) Quantity | FY 2021 Total (Base + OCO) Cost | Sec |
|---|---|---|---|---|---|---|---|
| 11 | H-1 Upgrades (UH-1Y/AH-1Z) | A | | | | (7,267) | U |
| | Less: Advance Procurement (PY) | | | | | | U |
| | | | | ---------- | | ---------- | |
| | | | | | | 7,267 | |
| 12 | MH-60R (MYP) | A | | | | | U |
| 13 | P-8A Poseidon | A | | | | (80,134) | U |
| | Less: Advance Procurement (PY) | | | | | | U |
| | | | | ---------- | | ---------- | |
| | | | | | | 80,134 | |
| 14 | P-8A Poseidon | | | | | | |
| | Advance Procurement (CY) | | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | |
| 15 | E-2D Adv Hawkeye | A | | | 4 | (791,601) | U |
| | Less: Advance Procurement (PY) | | | | | (-165,492) | U |
| | | | | ---------- | | ---------- | |
| | | | | | | 626,109 | |
| 16 | E-2D Adv Hawkeye | | | | | | |
| | Advance Procurement (CY) | | | | | 123,166 | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | |
| | C (FY 2019 for FY 2021) (M) | | | | | | |
| | C (FY 2019 for FY 2022) (M) | | | | | | |
| | C (FY 2019 for FY 2023) (M) | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | | |
| | C (FY 2020 for FY 2022) (M) | | | | | | |
| | C (FY 2020 for FY 2023) (M) | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (117,697) | |
| | C (FY 2021 for FY 2023) (M) | | | | | (5,469) | |
| | | | | ---------- | | ---------- | |
| Total Combat Aircraft | | | | | | 8,511,268 | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2019 (Base + OCO) Quantity | FY 2019 (Base + OCO) Cost | FY 2020 Base Enacted Quantity | FY 2020 Base Enacted Cost | FY 2020 Emergency Quantity | FY 2020 Emergency Cost | FY 2020 OCO Enacted Quantity | FY 2020 OCO Enacted Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Budget Activity 03: Trainer Aircraft** | | | | | | | | | | |
| | Trainer Aircraft | | | | | | | | | | |
| 17 | Advanced Helicopter Training System | A | | | 32 | 247,265 | | | | | U |
| | Total Trainer Aircraft | | | | | 247,265 | | | | | |
| | **Budget Activity 04: Other Aircraft** | | | | | | | | | | |
| | Other Aircraft | | | | | | | | | | |
| 18 | KC-130J | A | 2 | (175,930) | 3 | (270,853) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-25,497) | | (-30,013) | | | | | U |
| | | | | 150,433 | | 240,840 | | | | | |
| 19 | KC-130J | | | | | | | | | | |
| | Advance Procurement (CY) | | | 102,013 | | 66,061 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | (30,013) | | | | | | | |
| | C (FY 2019 for FY 2021) (M) | | | (20,000) | | | | | | | |
| | C (FY 2019 for FY 2022) (M) | | | (20,000) | | | | | | | |
| | C (FY 2019 for FY 2023) (M) | | | (32,000) | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | (66,061) | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | | | | | | |
| 20 | F-5 | A | | | 22 | 39,676 | | | | | U |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2020 Total Enacted (Base+Emerg+ OCO) Quantity | FY 2020 Total Enacted (Base+Emerg+ OCO) Cost | FY 2021 Base Quantity | FY 2021 Base Cost | FY 2021 OCO for Base Requirements Quantity | FY 2021 OCO for Base Requirements Cost | FY 2021 OCO for Direct War and Enduring Costs Quantity | FY 2021 OCO for Direct War and Enduring Costs Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Budget Activity 03: Trainer Aircraft** | | | | | | | | | | |
| | Trainer Aircraft | | | | | | | | | | |
| 17 | Advanced Helicopter Training System | A | 32 | 247,265 | 36 | 269,867 | | | | | U |
| | Total Trainer Aircraft | | | 247,265 | | 269,867 | | | | | |
| | **Budget Activity 04: Other Aircraft** | | | | | | | | | | |
| | Other Aircraft | | | | | | | | | | |
| 18 | KC-130J | A | 3 | (270,853) | 5 | (467,045) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-30,013) | | (-86,061) | | | | | U |
| | | | | 240,840 | | 380,984 | | | | | |
| 19 | KC-130J | | | | | | | | | | |
| | Advance Procurement (CY) | | | 66,061 | | 67,022 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | | | | | |
| | C (FY 2019 for FY 2021) (M) | | | | | | | | | | |
| | C (FY 2019 for FY 2022) (M) | | | | | | | | | | |
| | C (FY 2019 for FY 2023) (M) | | | | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | (66,061) | | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (67,022) | | | | | |
| 20 | F-5 | A | 22 | 39,676 | | | | | | | U |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2021 Total OCO Quantity | FY 2021 Total OCO Cost | FY 2021 Total (Base + OCO) Quantity | FY 2021 Total (Base + OCO) Cost | Sec |
|---|---|---|---|---|---|---|---|
| | **Budget Activity 03: Trainer Aircraft** | | | | | | |
| | Trainer Aircraft | | | | | | |
| 17 | Advanced Helicopter Training System | A | | | 36 | 269,867 | U |
| | Total Trainer Aircraft | | | | | 269,867 | |
| | **Budget Activity 04: Other Aircraft** | | | | | | |
| | Other Aircraft | | | | | | |
| 18 | KC-130J | A | | | 5 | (467,045) | U |
| | Less: Advance Procurement (PY) | | | | | (-86,061) | U |
| | | | | | | 380,984 | |
| 19 | KC-130J | | | | | | |
| | Advance Procurement (CY) | | | | | 67,022 | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | |
| | C (FY 2019 for FY 2021) (M) | | | | | | |
| | C (FY 2019 for FY 2022) (M) | | | | | | |
| | C (FY 2019 for FY 2023) (M) | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | | |
| | C (FY 2021 for FY 2022) (M) | | | | | (67,022) | |
| 20 | F-5 | A | | | | | U |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2019 (Base + OCO) Quantity | FY 2019 (Base + OCO) Cost | FY 2020 Base Enacted Quantity | FY 2020 Base Enacted Cost | FY 2020 Emergency Quantity | FY 2020 Emergency Cost | FY 2020 OCO Enacted Quantity | FY 2020 OCO Enacted Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | MQ-4 Triton | A | 3 | (596,283) | 2 | (478,288) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-57,266) | | (-42,555) | | | | | U |
| | | | | 539,017 | | 435,733 | | | | | |
| 22 | MQ-4 Triton | | | | | | | | | | |
| | Advance Procurement (CY) | | | 58,522 | | 20,139 | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | (42,555) | | | | | | | |
| | C (FY 2019 for FY 2021) (M) | | | (15,967) | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | (20,139) | | | | | |
| 23 | MQ-8 UAV | B | | 89,061 | | 44,957 | | | | | U |
| 24 | STUASL0 UAV | | | 52,131 | | 32,819 | | | | 7,921 | U |
| 25 | MQ-9A Reaper | A | | | | | | | 2 | 53,108 | U |
| 26 | VH-92A Executive Helo | | 6 | 649,015 | 6 | 640,994 | | | | | U |
| 27 | Other Support Aircraft | | | | 1 | 14,300 | | | | | U |
| Total Other Aircraft | | | | 1,640,192 | | 1,535,519 | | | | 61,029 | |

Budget Activity 05: Modification of Aircraft

Modification of Aircraft

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 28 | F-18 A-D Unique | A | | | | | | | | | U |
| 29 | F-18E/F and EA-18G Modernization and Sustainm | A | | | | | | | | | U |
| 30 | AEA Systems | | | 40,182 | | 33,843 | | | | | U |
| 31 | AV-8 Series | A | | 54,726 | | 38,231 | | | | | U |
| 32 | Infrared Search and Track (IRST) | A | | | | | | | | | U |
| 33 | Adversary | A | | 14,606 | | 3,415 | | | | | U |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2020 Total Enacted (Base+Emerg+ OCO) Quantity | FY 2020 Total Enacted (Base+Emerg+ OCO) Cost | FY 2021 Base Quantity | FY 2021 Base Cost | FY 2021 OCO for Base Requirements Quantity | FY 2021 OCO for Base Requirements Cost | FY 2021 OCO for Direct War and Enduring Costs Quantity | FY 2021 OCO for Direct War and Enduring Costs Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | MQ-4 Triton | A | 2 | (478,288) | | (186,676) | | | | | U |
| | Less: Advance Procurement (PY) | | | (-42,555) | | (-36,106) | | | | | U |
| | | | | 435,733 | | 150,570 | | | | | |
| 22 | MQ-4 Triton | | | | | | | | | | |
| | Advance Procurement (CY) | | | 20,139 | | | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | | | | | |
| | C (FY 2019 for FY 2021) (M) | | | | | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | (20,139) | | | | | | | |
| 23 | MQ-8 UAV | B | | 44,957 | | 40,375 | | | | | U |
| 24 | STUASL0 UAV | | | 40,740 | | 30,930 | | | | 7,921 | U |
| 25 | MQ-9A Reaper | A | 2 | 53,108 | | | | | | | U |
| 26 | VH-92A Executive Helo | | 6 | 640,994 | 5 | 610,231 | | | | | U |
| 27 | Other Support Aircraft | | 1 | 14,300 | | | | | | | U |
| Total Other Aircraft | | | | 1,596,548 | | 1,280,112 | | | | 7,921 | |

Budget Activity 05: Modification of Aircraft

Modification of Aircraft

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 28 | F-18 A-D Unique | A | | | | 208,261 | | | | | U |
| 29 | F-18E/F and EA-18G Modernization and Sustainm | A | | | | 468,954 | | | | | U |
| 30 | AEA Systems | | | 33,843 | | 21,061 | | | | | U |
| 31 | AV-8 Series | A | | 38,231 | | 34,082 | | | | | U |
| 32 | Infrared Search and Track (IRST) | A | | | | 158,055 | | | | | U |
| 33 | Adversary | A | | 3,415 | | 42,946 | | | | | U |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2021 Total OCO Quantity | FY 2021 Total OCO Cost | FY 2021 Total (Base + OCO) Quantity | FY 2021 Total (Base + OCO) Cost | Sec |
|---|---|---|---|---|---|---|---|
| 21 | MQ-4 Triton | A | | | | (186,676) | U |
| | Less: Advance Procurement (PY) | | | | | (-36,106) | U |
| | | | | ---------- | | ---------- | |
| | | | | | | 150,570 | |
| 22 | MQ-4 Triton | | | | | | |
| | Advance Procurement (CY) | | | | | | U |
| | C (FY 2019 for FY 2020) (M) | | | | | | |
| | C (FY 2019 for FY 2021) (M) | | | | | | |
| | C (FY 2020 for FY 2021) (M) | | | | | | |
| 23 | MQ-8 UAV | B | | | | 40,375 | U |
| 24 | STUASL0 UAV | | | 7,921 | | 38,851 | U |
| 25 | MQ-9A Reaper | A | | | | | U |
| 26 | VH-92A Executive Helo | | | | 5 | 610,231 | U |
| 27 | Other Support Aircraft | | | | | | U |
| | | | | ---------- | | ---------- | |
| Total Other Aircraft | | | | 7,921 | | 1,288,033 | |

Budget Activity 05: Modification of Aircraft

Modification of Aircraft

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 28 | F-18 A-D Unique | A | | | | 208,261 | U |
| 29 | F-18E/F and EA-18G Modernization and Sustainm | A | | | | 468,954 | U |
| 30 | AEA Systems | | | | | 21,061 | U |
| 31 | AV-8 Series | A | | | | 34,082 | U |
| 32 | Infrared Search and Track (IRST) | A | | | | 158,055 | U |
| 33 | Adversary | A | | | | 42,946 | U |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2019 (Base + OCO) Quantity | FY 2019 (Base + OCO) Cost | FY 2020 Base Enacted Quantity | FY 2020 Base Enacted Cost | FY 2020 Emergency Quantity | FY 2020 Emergency Cost | FY 2020 OCO Enacted Quantity | FY 2020 OCO Enacted Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | F-18 Series | A | | 1,157,961 | | 1,129,318 | | | | | U |
| 35 | H-53 Series | A | | 66,070 | | 68,385 | | | | | U |
| 36 | MH-60 Series | A | | 128,523 | | 141,612 | | | | | U |
| 37 | H-1 Series | A | | 86,995 | | 114,059 | | | | | U |
| 38 | EP-3 Series | A | | 9,013 | | 8,655 | | | | 5,488 | U |
| 39 | P-3 Series | A | | 803 | | | | | | | U |
| 40 | E-2 Series | A | | 82,902 | | 117,059 | | | | | U |
| 41 | Trainer A/C Series | A | | 11,597 | | 5,616 | | | | | U |
| 42 | C-2A | A | | 8,261 | | 13,747 | | | | | U |
| 43 | C-130 Series | A | | 70,463 | | 91,093 | | | | | U |
| 44 | FEWSG | A | | 597 | | 509 | | | | | U |
| 45 | Cargo/Transport A/C Series | A | | 8,932 | | 8,767 | | | | | U |
| 46 | E-6 Series | A | | 164,511 | | 153,573 | | | | | U |
| 47 | Executive Helicopters Series | A | | 19,566 | | 8,933 | | | | | U |
| 48 | Special Project Aircraft | A | | 9,785 | | | | | | 3,498 | U |
| 49 | T-45 Series | A | | 193,334 | | 174,526 | | | | | U |
| 50 | Power Plant Changes | A | | 25,043 | | 16,136 | | | | | U |
| 51 | JPATS Series | A | | 26,470 | | 21,824 | | | | | U |
| 52 | Aviation Life Support Mods | A | | 15,864 | | 39,762 | | | | | U |
| 53 | Common ECM Equipment | A | | 197,049 | | 155,410 | | | | 3,406 | U |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2020 Total Enacted (Base+Emerg+ OCO) Quantity | FY 2020 Total Enacted (Base+Emerg+ OCO) Cost | FY 2021 Base Quantity | FY 2021 Base Cost | FY 2021 OCO for Base Requirements Quantity | FY 2021 OCO for Base Requirements Cost | FY 2021 OCO for Direct War and Enduring Costs Quantity | FY 2021 OCO for Direct War and Enduring Costs Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | F-18 Series | A | | 1,129,318 | | 379,351 | | | | | U |
| 35 | H-53 Series | A | | 68,385 | | 74,771 | | | | | U |
| 36 | MH-60 Series | A | | 141,612 | | 131,584 | | | | | U |
| 37 | H-1 Series | A | | 114,059 | | 185,140 | | | | | U |
| 38 | EP-3 Series | A | | 14,143 | | 26,602 | | | | | U |
| 39 | P-3 Series | A | | | | | | | | | U |
| 40 | E-2 Series | A | | 117,059 | | 175,540 | | | | | U |
| 41 | Trainer A/C Series | A | | 5,616 | | 7,085 | | | | | U |
| 42 | C-2A | A | | 13,747 | | 9,525 | | | | | U |
| 43 | C-130 Series | A | | 91,093 | | 141,705 | | | | | U |
| 44 | FEWSG | A | | 509 | | 684 | | | | | U |
| 45 | Cargo/Transport A/C Series | A | | 8,767 | | 8,911 | | | | | U |
| 46 | E-6 Series | A | | 153,573 | | 197,206 | | | | | U |
| 47 | Executive Helicopters Series | A | | 8,933 | | 29,086 | | | | | U |
| 48 | Special Project Aircraft | A | | 3,498 | | | | | | | U |
| 49 | T-45 Series | A | | 174,526 | | 155,745 | | | | | U |
| 50 | Power Plant Changes | A | | 16,136 | | 24,633 | | | | | U |
| 51 | JPATS Series | A | | 21,824 | | 22,682 | | | | | U |
| 52 | Aviation Life Support Mods | A | | 39,762 | | 40,401 | | | | | U |
| 53 | Common ECM Equipment | A | | 158,816 | | 138,480 | | | | 3,474 | U |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2021 Total OCO Quantity | FY 2021 Total OCO Cost | FY 2021 Total (Base + OCO) Quantity | FY 2021 Total (Base + OCO) Cost | Sec |
|---|---|---|---|---|---|---|---|
| 34 | F-18 Series | A | | | | 379,351 | U |
| 35 | H-53 Series | A | | | | 74,771 | U |
| 36 | MH-60 Series | A | | | | 131,584 | U |
| 37 | H-1 Series | A | | | | 185,140 | U |
| 38 | EP-3 Series | A | | | | 26,602 | U |
| 39 | P-3 Series | A | | | | | U |
| 40 | E-2 Series | A | | | | 175,540 | U |
| 41 | Trainer A/C Series | A | | | | 7,085 | U |
| 42 | C-2A | A | | | | 9,525 | U |
| 43 | C-130 Series | A | | | | 141,705 | U |
| 44 | FEWSG | A | | | | 684 | U |
| 45 | Cargo/Transport A/C Series | A | | | | 8,911 | U |
| 46 | E-6 Series | A | | | | 197,206 | U |
| 47 | Executive Helicopters Series | A | | | | 29,086 | U |
| 48 | Special Project Aircraft | A | | | | | U |
| 49 | T-45 Series | A | | | | 155,745 | U |
| 50 | Power Plant Changes | A | | | | 24,633 | U |
| 51 | JPATS Series | A | | | | 22,682 | U |
| 52 | Aviation Life Support Mods | A | | | | 40,401 | U |
| 53 | Common ECM Equipment | A | | 3,474 | | 141,954 | U |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2019 (Base + OCO) Quantity | FY 2019 (Base + OCO) Cost | FY 2020 Base Enacted Quantity | FY 2020 Base Enacted Cost | FY 2020 Emergency Quantity | FY 2020 Emergency Cost | FY 2020 OCO Enacted Quantity | FY 2020 OCO Enacted Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | Common Avionics Changes | A | | 117,487 | | 82,978 | | | | | U |
| 55 | Common Defensive Weapon System | A | | 5,200 | | 2,100 | | | | 3,274 | U |
| 56 | ID Systems | A | | 39,133 | | 41,437 | | | | | U |
| 57 | P-8 Series | | | 67,352 | | 74,610 | | | | | U |
| 58 | MAGTF EW for Aviation | A | | 11,590 | | 26,536 | | | | | U |
| 59 | MQ-8 Series | | | 37,907 | | 31,686 | | | | | U |
| 60 | V-22 (Tilt/Rotor ACFT) Osprey | B | | 197,838 | | 325,367 | | | | | U |
| 61 | Next Generation Jammer (NGJ) | A | | | | | | | | | U |
| 62 | F-35 STOVL Series | A | | 41,218 | | 65,585 | | | | | U |
| 63 | F-35 CV Series | A | | 25,483 | | 15,358 | | | | | U |
| 64 | QRC | A | | 103,909 | | 163,373 | | | | 18,458 | U |
| 65 | MQ-4 Series | A | | 53,278 | | 27,994 | | | | | U |
| 66 | RQ-21 Series | A | | 21,019 | | 61,032 | | | | | U |
| 67 | DON Other 3 (TTNT) | A | | 1,337 | | | | | | | U |
| 68 | DON Other 4 (TTNT) | A | | 37,150 | | | | | | | U |
| 69 | DON Other 6 (TTNT) | A | | 13,000 | | | | | | | U |
| Total Modification of Aircraft | | | | 3,166,154 | | 3,262,529 | | | | 34,124 | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2020 Total Enacted (Base+Emerg+ OCO) Quantity | FY 2020 Total Enacted (Base+Emerg+ OCO) Cost | FY 2021 Base Quantity | FY 2021 Base Cost | FY 2021 OCO for Base Requirements Quantity | FY 2021 OCO for Base Requirements Cost | FY 2021 OCO for Direct War and Enduring Costs Quantity | FY 2021 OCO for Direct War and Enduring Costs Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | Common Avionics Changes | A | | 82,978 | | 143,322 | | | | | U |
| 55 | Common Defensive Weapon System | A | | 5,374 | | 2,142 | | | | 3,339 | U |
| 56 | ID Systems | A | | 41,437 | | 35,999 | | | | | U |
| 57 | P-8 Series | | | 74,610 | | 180,530 | | | | | U |
| 58 | MAGTF EW for Aviation | A | | 26,536 | | 27,794 | | | | | U |
| 59 | MQ-8 Series | | | 31,686 | | 28,774 | | | | | U |
| 60 | V-22 (Tilt/Rotor ACFT) Osprey | B | | 325,367 | | 334,405 | | | | | U |
| 61 | Next Generation Jammer (NGJ) | A | | | | 176,638 | | | | | U |
| 62 | F-35 STOVL Series | A | | 65,585 | | 153,588 | | | | | U |
| 63 | F-35 CV Series | A | | 15,358 | | 105,452 | | | | | U |
| 64 | QRC | A | | 181,831 | | 126,618 | | | | 18,507 | U |
| 65 | MQ-4 Series | A | | 27,994 | | 12,998 | | | | | U |
| 66 | RQ-21 Series | A | | 61,032 | | 18,550 | | | | | U |
| 67 | DON Other 3 (TTNT) | A | | | | | | | | | U |
| 68 | DON Other 4 (TTNT) | A | | | | | | | | | U |
| 69 | DON Other 6 (TTNT) | A | | | | | | | | | U |
| Total Modification of Aircraft | | | | 3,296,653 | | 4,029,300 | | | | 25,320 | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2021 Total OCO Quantity | FY 2021 Total OCO Cost | FY 2021 Total (Base + OCO) Quantity | FY 2021 Total (Base + OCO) Cost | Sec |
|---|---|---|---|---|---|---|---|
| 54 | Common Avionics Changes | A | | | | 143,322 | U |
| 55 | Common Defensive Weapon System | A | | 3,339 | | 5,481 | U |
| 56 | ID Systems | A | | | | 35,999 | U |
| 57 | P-8 Series | | | | | 180,530 | U |
| 58 | MAGTF EW for Aviation | A | | | | 27,794 | U |
| 59 | MQ-8 Series | | | | | 28,774 | U |
| 60 | V-22 (Tilt/Rotor ACFT) Osprey | B | | | | 334,405 | U |
| 61 | Next Generation Jammer (NGJ) | A | | | | 176,638 | U |
| 62 | F-35 STOVL Series | A | | | | 153,588 | U |
| 63 | F-35 CV Series | A | | | | 105,452 | U |
| 64 | QRC | A | | 18,507 | | 145,125 | U |
| 65 | MQ-4 Series | A | | | | 12,998 | U |
| 66 | RQ-21 Series | A | | | | 18,550 | U |
| 67 | DON Other 3 (TTNT) | A | | | | | U |
| 68 | DON Other 4 (TTNT) | A | | | | | U |
| 69 | DON Other 6 (TTNT) | A | | | | | U |
| Total Modification of Aircraft | | | | 25,320 | | 4,054,620 | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2019 (Base + OCO) Quantity | FY 2019 (Base + OCO) Cost | FY 2020 Base Enacted Quantity | FY 2020 Base Enacted Cost | FY 2020 Emergency Quantity | FY 2020 Emergency Cost | FY 2020 OCO Enacted Quantity | FY 2020 OCO Enacted Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Budget Activity 06: Aircraft Spares and Repair Parts | | | | | | | | | | | |
| | Aircraft Spares and Repair Parts | | | | | | | | | | |
| 70 | Spares and Repair Parts | A | | 1,678,794 | | 2,168,602 | | | | | U |
| Total Aircraft Spares and Repair Parts | | | | 1,678,794 | | 2,168,602 | | | | | |
| Budget Activity 07: Aircraft Support Equip & Facilities | | | | | | | | | | | |
| | Aircraft Support Equip & Facilities | | | | | | | | | | |
| 71 | Common Ground Equipment | A | | 413,150 | | 448,288 | | | | | U |
| 72 | Aircraft Industrial Facilities | A | | 24,496 | | 71,335 | | | | | U |
| 73 | War Consumables | A | | 42,035 | | 32,086 | | | | | U |
| 74 | Other Production Charges | A | | 1,444 | | | | | | | U |
| 75 | Special Support Equipment | A | | 49,489 | | 135,740 | | | | | U |
| 76 | First Destination Transportation | A | | 1,951 | | | | | | | U |
| 77 | Cancelled Account Adjustments | A | | 302 | | | | | | | U |
| Total Aircraft Support Equip & Facilities | | | | 532,867 | | 687,449 | | | | | |
| Total Aircraft Procurement, Navy | | | | 20,264,005 | | 19,605,513 | | | | 95,153 | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2020 Total Enacted (Base+Emerg+ OCO) Quantity | FY 2020 Total Enacted (Base+Emerg+ OCO) Cost | FY 2021 Base Quantity | FY 2021 Base Cost | FY 2021 OCO for Base Requirements Quantity | FY 2021 OCO for Base Requirements Cost | FY 2021 OCO for Direct War and Enduring Costs Quantity | FY 2021 OCO for Direct War and Enduring Costs Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Budget Activity 06: Aircraft Spares and Repair Parts | | | | | | | | | | | |
| | Aircraft Spares and Repair Parts | | | | | | | | | | |
| 70 | Spares and Repair Parts | A | | 2,168,602 | | 2,198,460 | | | | | U |
| Total Aircraft Spares and Repair Parts | | | | 2,168,602 | | 2,198,460 | | | | | |
| Budget Activity 07: Aircraft Support Equip & Facilities | | | | | | | | | | | |
| | Aircraft Support Equip & Facilities | | | | | | | | | | |
| 71 | Common Ground Equipment | A | | 448,288 | | 543,559 | | | | | U |
| 72 | Aircraft Industrial Facilities | A | | 71,335 | | 75,685 | | | | | U |
| 73 | War Consumables | A | | 32,086 | | 40,633 | | | | | U |
| 74 | Other Production Charges | A | | | | 21,194 | | | | | U |
| 75 | Special Support Equipment | A | | 135,740 | | 155,179 | | | | | U |
| 76 | First Destination Transportation | A | | | | 2,121 | | | | | U |
| 77 | Cancelled Account Adjustments | A | | | | | | | | | U |
| Total Aircraft Support Equip & Facilities | | | | 687,449 | | 838,371 | | | | | |
| Total Aircraft Procurement, Navy | | | | 19,700,666 | | 17,127,378 | | | | 33,241 | |

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

Appropriation: 1506N Aircraft Procurement, Navy

| Line No | Item Nomenclature | Ident Code | FY 2021 Total OCO Quantity | FY 2021 Total OCO Cost | FY 2021 Total (Base + OCO) Quantity | FY 2021 Total (Base + OCO) Cost | Sec |
|---|---|---|---|---|---|---|---|
| | **Budget Activity 06: Aircraft Spares and Repair Parts** | | | | | | |
| | Aircraft Spares and Repair Parts | | | | | | |
| 70 | Spares and Repair Parts | A | | | | 2,198,460 | U |
| | Total Aircraft Spares and Repair Parts | | | | | 2,198,460 | |
| | **Budget Activity 07: Aircraft Support Equip & Facilities** | | | | | | |
| | Aircraft Support Equip & Facilities | | | | | | |
| 71 | Common Ground Equipment | A | | | | 543,559 | U |
| 72 | Aircraft Industrial Facilities | A | | | | 75,685 | U |
| 73 | War Consumables | A | | | | 40,633 | U |
| 74 | Other Production Charges | A | | | | 21,194 | U |
| 75 | Special Support Equipment | A | | | | 155,179 | U |
| 76 | First Destination Transportation | A | | | | 2,121 | U |
| 77 | Cancelled Account Adjustments | A | | | | | U |
| | Total Aircraft Support Equip & Facilities | | | | | 838,371 | |
| | Total Aircraft Procurement, Navy | | | 33,241 | | 17,160,619 | |

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

***Appropriation 1506N: Aircraft Procurement, Navy***


| Line # | BA | BSA | Line Item Number | Line Item Title | Page |
|---|---|---|---|---|---|
| 1 | 01 | 01 | 0145 | FA-18E/F | Volume 1 - 1 |
| 2 | 01 | 01 | 0145 | FA-18E/F, Advance Procurement | Volume 1 - 11 |
| 3 | 01 | 01 | 0147 | Joint Strike Fighter CV | Volume 1 - 15 |
| 4 | 01 | 01 | 0147 | Joint Strike Fighter CV, Advance Procurement | Volume 1 - 27 |
| 5 | 01 | 01 | 0152 | JSF STOVL | Volume 1 - 31 |
| 6 | 01 | 01 | 0152 | JSF STOVL, Advance Procurement | Volume 1 - 41 |
| 7 | 01 | 01 | 0158 | CH-53K (Heavy Lift) | Volume 1 - 45 |
| 8 | 01 | 01 | 0158 | CH-53K (Heavy Lift), Advance Procurement | Volume 1 - 57 |
| 9 | 01 | 01 | 0164 | V-22 (Medium Lift) | Volume 1 - 61 |
| 10 | 01 | 01 | 0164 | V-22 (Medium Lift), Advance Procurement | Volume 1 - 79 |
| 11 | 01 | 01 | 0178 | UH-1Y/AH-1Z | Volume 1 - 85 |
| 12 | 01 | 01 | 0182 | MH-60R | Volume 1 - 97 |
| 13 | 01 | 01 | 0193 | P-8A Poseidon | Volume 1 - 103 |
| 14 | 01 | 01 | 0193 | P-8A Poseidon, Advance Procurement | Volume 1 - 113 |
| 15 | 01 | 01 | 0195 | E-2D AHE | Volume 1 - 117 |
| 16 | 01 | 01 | 0195 | E-2D AHE, Advance Procurement | Volume 1 - 129 |

***Appropriation 1506N: Aircraft Procurement, Navy***


| Line # | BA | BSA | Line Item Number | Line Item Title | Page |
|---|---|---|---|---|---|
| 17 | 03 | 01 | 0344 | Advanced Helicopter Training System | Volume 1 - 133 |


***Appropriation 1506N: Aircraft Procurement, Navy***


| Line # | BA | BSA | Line Item Number | Line Item Title | Page |
|---|---|---|---|---|---|
| 18 | 04 | 01 | 0416 | KC-130J | Volume 1 - 141 |
| 19 | 04 | 01 | 0416 | KC-130J, Advance Procurement | Volume 1 - 153 |
| 20 | 04 | 01 | 0417 | F-5 | Volume 1 - 157 |
| 21 | 04 | 01 | 0442 | MQ-4 TRITON | Volume 1 - 163 |
| 22 | 04 | 01 | 0442 | MQ-4 TRITON, Advance Procurement | Volume 1 - 175 |
| 23 | 04 | 01 | 0443 | MQ-8 UAV | Volume 1 - 179 |
| 24 | 04 | 01 | 0444 | STUASLO | Volume 1 - 189 |
| 25 | 04 | 01 | 0451 | MQ-9A Reaper | Volume 1 - 203 |
| 26 | 04 | 01 | 0455 | VH-92A Executive Helo | Volume 1 - 211 |
| 27 | 04 | 01 | 0465 | Other Support Aircraft | Volume 1 - 221 |

***Appropriation 1506N: Aircraft Procurement, Navy***


| Line # | BA | BSA | Line Item Number | Line Item Title | Page |
|---|---|---|---|---|---|
| 28 | 05 | 01 | 0502 | F-18 A-D Unique | Volume 2 - 1 |
| 29 | 05 | 01 | 0505 | F-18E/F and EA-18G Modernization and Sustainment | Volume 2 - 31 |
| 30 | 05 | 01 | 0513 | AEA Systems | Volume 2 - 67 |
| 31 | 05 | 01 | 0514 | AV-8 Series | Volume 2 - 75 |
| 32 | 05 | 01 | 0515 | Infrared Search and Track (IRST) | Volume 2 - 97 |
| 33 | 05 | 01 | 0522 | Adversary | Volume 2 - 101 |
| 34 | 05 | 01 | 0525 | F-18 Series | Volume 2 - 119 |
| 35 | 05 | 01 | 0528 | H-53 Series | Volume 2 - 257 |
| 36 | 05 | 01 | 0530 | MH-60 Series | Volume 2 - 303 |
| 37 | 05 | 01 | 0532 | H-1 Series | Volume 2 - 337 |
| 38 | 05 | 01 | 0537 | EP-3 Series | Volume 2 - 367 |
| 39 | 05 | 01 | 0538 | P-3 Series | Volume 2 - 381 |
| 40 | 05 | 01 | 0544 | E-2 Series | Volume 2 - 389 |
| 41 | 05 | 01 | 0549 | Trainer Acft Series | Volume 2 - 457 |
| 42 | 05 | 01 | 0556 | C-2A | Volume 2 - 473 |
| 43 | 05 | 01 | 0560 | C-130 Series | Volume 2 - 487 |

***Appropriation 1506N: Aircraft Procurement, Navy***


| Line # | BA | BSA | Line Item Number | Line Item Title | Page |
|---|---|---|---|---|---|
| 44 | 05 | 01 | 0561 | Flt Elect Wrfr Supt Grp (FEWSG) | Volume 2 - 515 |
| 45 | 05 | 01 | 0562 | Cargo/Transport Acft Series | Volume 2 - 521 |
| 46 | 05 | 01 | 0564 | E-6 Series | Volume 2 - 545 |
| 47 | 05 | 01 | 0566 | Executive Helicopters Series | Volume 2 - 601 |
| 48 | 05 | 01 | 0567 | Special Project Acft | Volume 2 - 631 |
| 49 | 05 | 01 | 0569 | T-45 Series | Volume 2 - 639 |
| 50 | 05 | 01 | 0570 | Power Plant Changes | Volume 2 - 685 |
| 51 | 05 | 01 | 0571 | JT Primary Acft Trnr Sys (JPATS) | Volume 2 - 691 |
| 52 | 05 | 01 | 0575 | Aviation Life Support Mods | Volume 2 - 709 |
| 53 | 05 | 01 | 0576 | Common ECM Equipment | Volume 2 - 723 |
| 54 | 05 | 01 | 0577 | Common Avionics Changes | Volume 2 - 749 |
| 55 | 05 | 01 | 0581 | Common Defensive Weapon System | Volume 2 - 789 |
| 56 | 05 | 01 | 0582 | ID Sys | Volume 2 - 797 |
| 57 | 05 | 01 | 0586 | P-8 Series | Volume 2 - 803 |
| 58 | 05 | 01 | 0587 | MAGTF EW for Aviation | Volume 2 - 833 |
| 59 | 05 | 01 | 0588 | MQ-8 Series | Volume 2 - 841 |
| 60 | 05 | 01 | 0590 | V-22 (Tilt/Rotor Acft) Osprey | Volume 2 - 861 |
| 61 | 05 | 01 | 0591 | Next Generation Jammer (NGJ) | Volume 2 - 911 |

***Appropriation 1506N: Aircraft Procurement, Navy***


| Line # | BA | BSA | Line Item Number | Line Item Title | Page |
|---|---|---|---|---|---|
| 62 | 05 | 01 | 0592 | F-35 STOVL Series | Volume 2 - 917 |
| 63 | 05 | 01 | 0593 | F-35 CV Series | Volume 2 - 951 |
| 64 | 05 | 01 | 0595 | QRC | Volume 2 - 979 |
| 65 | 05 | 01 | 0596 | MQ-4 Series | Volume 2 - 981 |
| 66 | 05 | 01 | 0598 | RQ-21 Series | Volume 2 - 1003 |


***Appropriation 1506N: Aircraft Procurement, Navy***


| Line # | BA | BSA | Line Item Number | Line Item Title | Page |
|---|---|---|---|---|---|
| 70 | 06 | 01 | 0605 | Spares and Repair Parts | Volume 3 - 1 |


***Appropriation 1506N: Aircraft Procurement, Navy***


| Line # | BA | BSA | Line Item Number | Line Item Title | Page |
|---|---|---|---|---|---|
| 71 | 07 | 01 | 0705 | Common Ground Equipment | Volume 3 - 11 |
| 72 | 07 | 01 | 0715 | Aircraft Industrial Facilities | Volume 3 - 73 |

***Appropriation 1506N: Aircraft Procurement, Navy***


| Line # | BA | BSA | Line Item Number | Line Item Title | Page |
|---|---|---|---|---|---|
| 73 | 07 | 01 | 0720 | War Consumables | Volume 3 - 81 |
| 74 | 07 | 01 | 0725 | Other Production Charges | Volume 3 - 91 |
| 75 | 07 | 01 | 0735 | Special Support Equipment | Volume 3 - 99 |
| 76 | 07 | 01 | 0740 | First Destination Transportation | Volume 3 - 101 |
| 77 | 07 | 01 | 0790 | Cancelled Account Adjustments | Volume 3 - 103 |

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| Line Item Title | Line Item Number | Line # | BA | BSA | Page |
|---|---|---|---|---|---|
| AEA Systems | 0513 | 30 | 05 | 01 | Volume 2 - 67 |
| AV-8 Series | 0514 | 31 | 05 | 01 | Volume 2 - 75 |
| Advanced Helicopter Training System | 0344 | 17 | 03 | 01 | Volume 1 - 133 |
| Adversary | 0522 | 33 | 05 | 01 | Volume 2 - 101 |
| Aircraft Industrial Facilities | 0715 | 72 | 07 | 01 | Volume 3 - 73 |
| Aviation Life Support Mods | 0575 | 52 | 05 | 01 | Volume 2 - 709 |
| C-130 Series | 0560 | 43 | 05 | 01 | Volume 2 - 487 |
| C-2A | 0556 | 42 | 05 | 01 | Volume 2 - 473 |
| CH-53K (Heavy Lift) | 0158 | 7 | 01 | 01 | Volume 1 - 45 |
| CH-53K (Heavy Lift), Advance Procurement | 0158 | 8 | 01 | 01 | Volume 1 - 57 |
| Cancelled Account Adjustments | 0790 | 77 | 07 | 01 | Volume 3 - 103 |
| Cargo/Transport Acft Series | 0562 | 45 | 05 | 01 | Volume 2 - 521 |
| Common Avionics Changes | 0577 | 54 | 05 | 01 | Volume 2 - 749 |
| Common Defensive Weapon System | 0581 | 55 | 05 | 01 | Volume 2 - 789 |
| Common ECM Equipment | 0576 | 53 | 05 | 01 | Volume 2 - 723 |
| Common Ground Equipment | 0705 | 71 | 07 | 01 | Volume 3 - 11 |
| E-2 Series | 0544 | 40 | 05 | 01 | Volume 2 - 389 |

| Line Item Title | Line Item Number | Line # | BA | BSA | Page |
|---|---|---|---|---|---|
| E-2D AHE | 0195 | 15 | 01 | 01 | Volume 1 - 117 |
| E-2D AHE, Advance Procurement | 0195 | 16 | 01 | 01 | Volume 1 - 129 |
| E-6 Series | 0564 | 46 | 05 | 01 | Volume 2 - 545 |
| EP-3 Series | 0537 | 38 | 05 | 01 | Volume 2 - 367 |
| Executive Helicopters Series | 0566 | 47 | 05 | 01 | Volume 2 - 601 |
| F-18 A-D Unique | 0502 | 28 | 05 | 01 | Volume 2 - 1 |
| F-18 Series | 0525 | 34 | 05 | 01 | Volume 2 - 119 |
| F-18E/F and EA-18G Modernization and Sustainment | 0505 | 29 | 05 | 01 | Volume 2 - 31 |
| F-35 CV Series | 0593 | 63 | 05 | 01 | Volume 2 - 951 |
| F-35 STOVL Series | 0592 | 62 | 05 | 01 | Volume 2 - 917 |
| F-5 | 0417 | 20 | 04 | 01 | Volume 1 - 157 |
| FA-18E/F | 0145 | 1 | 01 | 01 | Volume 1 - 1 |
| FA-18E/F, Advance Procurement | 0145 | 2 | 01 | 01 | Volume 1 - 11 |
| First Destination Transportation | 0740 | 76 | 07 | 01 | Volume 3 - 101 |
| Flt Elect Wrfr Supt Grp (FEWSG) | 0561 | 44 | 05 | 01 | Volume 2 - 515 |
| H-1 Series | 0532 | 37 | 05 | 01 | Volume 2 - 337 |
| H-53 Series | 0528 | 35 | 05 | 01 | Volume 2 - 257 |
| ID Sys | 0582 | 56 | 05 | 01 | Volume 2 - 797 |
| Infrared Search and Track (IRST) | 0515 | 32 | 05 | 01 | Volume 2 - 97 |
| JSF STOVL | 0152 | 5 | 01 | 01 | Volume 1 - 31 |

| Line Item Title | Line Item Number | Line # | BA | BSA | Page |
|---|---|---|---|---|---|
| JSF STOVL, Advance Procurement | 0152 | 6 | 01 | 01 | Volume 1 - 41 |
| JT Primary Acft Trnr Sys (JPATS) | 0571 | 51 | 05 | 01 | Volume 2 - 691 |
| Joint Strike Fighter CV | 0147 | 3 | 01 | 01 | Volume 1 - 15 |
| Joint Strike Fighter CV, Advance Procurement | 0147 | 4 | 01 | 01 | Volume 1 - 27 |
| KC-130J | 0416 | 18 | 04 | 01 | Volume 1 - 141 |
| KC-130J, Advance Procurement | 0416 | 19 | 04 | 01 | Volume 1 - 153 |
| MAGTF EW for Aviation | 0587 | 58 | 05 | 01 | Volume 2 - 833 |
| MH-60 Series | 0530 | 36 | 05 | 01 | Volume 2 - 303 |
| MH-60R | 0182 | 12 | 01 | 01 | Volume 1 - 97 |
| MQ-4 Series | 0596 | 65 | 05 | 01 | Volume 2 - 981 |
| MQ-4 TRITON | 0442 | 21 | 04 | 01 | Volume 1 - 163 |
| MQ-4 TRITON, Advance Procurement | 0442 | 22 | 04 | 01 | Volume 1 - 175 |
| MQ-8 Series | 0588 | 59 | 05 | 01 | Volume 2 - 841 |
| MQ-8 UAV | 0443 | 23 | 04 | 01 | Volume 1 - 179 |
| MQ-9A Reaper | 0451 | 25 | 04 | 01 | Volume 1 - 203 |
| Next Generation Jammer (NGJ) | 0591 | 61 | 05 | 01 | Volume 2 - 911 |
| Other Production Charges | 0725 | 74 | 07 | 01 | Volume 3 - 91 |
| Other Support Aircraft | 0465 | 27 | 04 | 01 | Volume 1 - 221 |
| P-3 Series | 0538 | 39 | 05 | 01 | Volume 2 - 381 |
| P-8 Series | 0586 | 57 | 05 | 01 | Volume 2 - 803 |

| Line Item Title | Line Item Number | Line # | BA | BSA | Page |
|---|---|---|---|---|---|
| P-8A Poseidon | 0193 | 13 | 01 | 01 | Volume 1 - 103 |
| P-8A Poseidon, Advance Procurement | 0193 | 14 | 01 | 01 | Volume 1 - 113 |
| Power Plant Changes | 0570 | 50 | 05 | 01 | Volume 2 - 685 |
| QRC | 0595 | 64 | 05 | 01 | Volume 2 - 979 |
| RQ-21 Series | 0598 | 66 | 05 | 01 | Volume 2 - 1003 |
| STUASLO | 0444 | 24 | 04 | 01 | Volume 1 - 189 |
| Spares and Repair Parts | 0605 | 70 | 06 | 01 | Volume 3 - 1 |
| Special Project Acft | 0567 | 48 | 05 | 01 | Volume 2 - 631 |
| Special Support Equipment | 0735 | 75 | 07 | 01 | Volume 3 - 99 |
| T-45 Series | 0569 | 49 | 05 | 01 | Volume 2 - 639 |
| Trainer Acft Series | 0549 | 41 | 05 | 01 | Volume 2 - 457 |
| UH-1Y/AH-1Z | 0178 | 11 | 01 | 01 | Volume 1 - 85 |
| V-22 (Medium Lift) | 0164 | 9 | 01 | 01 | Volume 1 - 61 |
| V-22 (Medium Lift), Advance Procurement | 0164 | 10 | 01 | 01 | Volume 1 - 79 |
| V-22 (Tilt/Rotor Acft) Osprey | 0590 | 60 | 05 | 01 | Volume 2 - 861 |
| VH-92A Executive Helo | 0455 | 26 | 04 | 01 | Volume 1 - 211 |
| War Consumables | 0720 | 73 | 07 | 01 | Volume 3 - 81 |

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | Date: February 2020 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N: Aircraft Procurement, Navy / BA 06: Aircraft Spares and Repair Parts / BSA 1: Aircraft Spares and Repair Parts | **P-1 Line Item Number / Title:** 0605 / Spares and Repair Parts |

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

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

| 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)* | 0.000 | 1,678.794 | 2,168.602 | 2,198.460 | 0.000 | 2,198.460 | 2,015.181 | 1,711.888 | 1,595.726 | 1,658.474 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 0.000 | 1,678.794 | 2,168.602 | 2,198.460 | 0.000 | 2,198.460 | 2,015.181 | 1,711.888 | 1,595.726 | 1,658.474 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **0.000** | **1,678.794** | **2,168.602** | **2,198.460** | **0.000** | **2,198.460** | **2,015.181** | **1,711.888** | **1,595.726** | **1,658.474** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

All aviation spares requirements are developed using accredited sparing models. Funding requirements for major avionics are calculated on an item-by-item basis where possible. APN-6 is a "follower" account providing spares for end-items and modifications procured under APN Budget Activity (BA)'s 1-5 and 7, and follows program changes in end-item quantities, basing scenarios, and maintenance data.

The Initial spares category includes all repairable and consumable allowances to support the quantity and Type/Model/Series (T/M/S) of aircraft in new procurement, during Interim Contractor Support (ICS) to support the Repair of Repairables (ROR) prior to Material Support Date (MSD) and to support aircraft modifications.

Initial spares supporting aircraft procured under APN BA-1 through BA-4 are based on the number of aircraft being procured, basing plans, flying hours, maintenance data, and a number of other data elements derived from the Weapon System Planning Documents and Aircraft Program Data File that are fed into the Readiness Based Sparing model and the Retail Inventory Model for Aviation for the determination of spare engine requirements. Spare engines and engine modules are procured under initial spares during the production of the aircraft and do not transition to Navy Working Capital Funds (NWCF).

The Initial spares category funds the ROR (9401) via contractor support, prior to the MSD, at which time repairs are turned over to the organic depots.

Modification spares (9504) follow the APN BA-5 Modification budget for all T/M/S supporting various Engineering Change Proposals (ECPs) and Operational Safety Improvement Program (OSIP) initiatives.

Spares for Aircraft Support Equipment and Facilities follow the APN BA-7 budget for all T/M/S providing spares for training devices and support equipment (0720 and 9705-9709).

Replenishment spares provides initial sparing for 6K cognizance material (Cog) containers (9710), Adversary (9711) and Headquarters Replenishment for various programs (9712). Due to the nature of Adversary and Headquarters Replenishment programs, initial spares requirements are supported for the life of the program by APN-6 funding and are not transferred to the Navy Supply System.

The Replenishment category also funds the Aviation Outfitting Account for Repairables (AOA) (9713) and Aviation Outfitting Account for Consumables (ACA)(9714) for initial sparing and range/depth increases.

The Outfitting spares element of the budget is comprised of the Aviation Outfitting Account (AOA), which sources spares utilizing Defense Working Capital Fund and NWCF subsequent to MSD, as well as a limited number of Headquarters Replenishment Accounts for spares procured at Naval Air Systems Command headquarters to support Executive Mission helicopters, inter-service support requirements, and

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 06: Aircraft Spares and Repair Parts / BSA 1: Aircraft Spares and Repair Parts | **P-1 Line Item Number / Title:**<br>0605 / Spares and Repair Parts | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

miscellaneous aircraft systems. Successful execution of AOA and meeting Fleet requirements depends heavily on the synchronization between NWCF Buy-In and APN-6 Buy-Out which requires stability of funding levels for both accounts. AOA fills Aviation and Shore Consolidated Allowances (AVCAL/SHORCAL). AVCALs support carriers and L-decks conducting deployed operations.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | Date: February 2020 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 06: Aircraft Spares and Repair Parts / BSA 1: Aircraft Spares and Repair Parts | **P-1 Line Item Number / Title:**<br>0605 / Spares and Repair Parts |

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

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

| 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-18 | APN spares | | | | - / - | - / 1,678.793 | - / 2,168.602 | - / 2,198.460 | - / - | - / 2,198.460 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 0.000** | **- / 1,678.794** | **- / 2,168.602** | **- / 2,198.460** | **- / 0.000** | **- / 2,198.460** |

Title represents the P-18 Title for Spares.

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

**Justification:**
Aviation sparing supports the Chief of Naval Operations' (CNO's) strategy to strengthen naval power at and from sea by maintaining and modernizing a Navy and Marine Corps partnered fleet that is trained and ready to operate and fight decisively in an information domain. Aviation sparing provides the initial plane-side sparing to fill allowances for authorized allowance listings to better meet today's force demands, to meet naval platform support in a highly data-driven, informational environment, and to meet combatant commander needs.

AVCAL/SHORCAL requirements enable carriers/L-decks to conduct deployed operations. Initial contractor spares and engine spares are major cost drivers as new Type/Model/Series (T/M/S) continue to be introduced, procured, and modified for technological improvements in FY21. To field new aircraft, aviation spares support the stand-up of new basing plans and additional support packages. The aviation spares budget further supports the Secretary of Defense's strategy to improve warfighting readiness by addressing urgent warfighting readiness shortfalls.

(1) Initial Spares:
FY2021 Initial spares funding is required for Joint Strike Fighter (JSF) Short Takeoff and Vertical Landing (STOVL) (0152) and increased funding for JSF Carrier Variant (CV) (0147) to support Initial Operational Capability, meet parts availability, resupply response times, and maintenance requirements, and to continue to progress toward Full Operational Capability. The increased funding will ensure procurement of proper spares levels for the spares Afloat Spares Packages, Deployment Spares Packages, Base Spares Packages, and the Navy and Marine Corps share of the JSF Global Spares Pool (GSP). The GSP is a foundational tenet of this joint program, whereby the Air Force, Navy, Marine Corps, and seven international countries share the cost of spares, eliminating need for individual entities to procure full depth and range of spares. These initial spares and repair parts are critical to establishing depot maintenance capability and meeting sustainment milestones for all partners.

In FY2021, the F-35 Joint Program Office is planning the acquisition of provisioning and cataloguing data from prime contractors. The discrete cost for this data will be provided as part of prime contractor proposals which is due to be delivered in CY2020.

FY2021 Initial spares funding increases include required support of the following aircraft platforms:
CH-53K (0158) - Initial Spares increase from FY20-FY21 is required to build range and depth of stock on hand to support Operational Test and Fleet Operations. The initial spares procured in FY21 will enable the program to remain on track to fully support flight operations until material support date.
V-22 (0164) - FY21 funding increase is required for spare engines & components as well as contractor spares requirements aligned to the APN-1 aircraft buys, much of which is due to the Navy variant, CMV-22.
P-8 (0193) - FY21 funding increase supports Peculiar Support Equipment (PSE).
E-2D AHE (0195) - FY21 funding increase is required for spare engines & components as well as contractor spares requirements aligned to the APN-1 aircraft buys.
JT Primary Aircraft Training System/JPATS (0339) - FY21 funding is required for additional engine spares due to projected flight hours for the T-6 trainer aircraft.
Advanced Helicopter Training System (0344) - FY21 funding increase to align engine and contractor spares to the APN-3 procurement for the training system.
MQ-8 UAV (0443) - FY21 funding increase is required for engine and PSE spares related to the UAV APN-4 budget.
VH-92A (0455) - FY21 funding increase supports procurement of Contractor spares, Engines, and PSE aligned to the APN-4 aircraft buys.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 06: Aircraft Spares and Repair Parts / BSA 1: Aircraft Spares and Repair Parts | **P-1 Line Item Number / Title:**<br>0605 / Spares and Repair Parts | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

FY2021 funding is required for Repair of Repairables (ROR) (9401). ROR increase is due to anticipated additional repairs on new parts based on increased number of aircraft in the fleet for platforms such as for MQ-4 TRITON,
F/A-18E/F, VH-92, E-2, P-8, Common Avionics, and CH-53K.

FY2021 funding increase for Spares for Modification (9504) supports increased modification requirements for AV-8B, E-2 Series, F-18 series, JPATS, Next Generation Jammer (NGJ), Trainer Aircraft Series, C-130 Series, E-6 Series, VH-92A, H-1 Series, Manned Reconnaissance Systems, P-8 Series, V-22, and Common Avionics.

FY2021 funding increase required for Aircraft Support Equipment and Facilities provides initial spares for Training Devices (9705), Common Support Equipment (CSE) (9707), and Tactical Combat Training System (TCTS) (9709). Increases support additional training requirements across Naval Aviation. War Consumables (0720) - FY21 funding is associated with contractor spares for bomb rack requirements to support the small diameter bomb II (SDB) on F-35B and F-35C.

(2) Replenishment:
FY2021 funding increase for 6K (Cog) (9710) due to correlation of container requirement increase as the spares being procured increases.

FY2021 funding is required for replenishment of the AOA and ACA (9713/9714) spares. The AOA Repairable account is integral in providing sustainment requirements that maintain current operational and wartime readiness for legacy systems such as F/A-18, AV-8B, EA-6B, H-1, MH-53E, MV-22, Common Avionics and Special Programs. Specifically, Aviation Outfitting procures critical initial spare parts to fill AVCAL and SHORCAL requirements in support of the CNO's strategy. Through Outfitting; AOA/ACA funding supports improved aviation operational readiness across the Fleet, fulfilling carrier/amphibious landing deck as well as Naval Air Station allowance growth and supporting repair of AOA assets. Outfitting ACA FY21 funding increase due to Order and Shipping Time (OST) parameters increasing to include a more realistic retail stocking level aligned with DoD Supply Chain regulations and OST standards for all T/M/S.

| Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 06 / 1 | **P-1 Line Item Number / Title:** 0605 / Spares and Repair Parts | **Title:** APN spares |

| End Item Line Item Number / Name [MDAP/MAIS] | Prior Years ($ M) | FY 2019 ($ M) | FY 2020 ($ M) | FY 2021 Base ($ M) | FY 2021 OCO ($ M) | FY 2021 Total ($ M) |
|---|---|---|---|---|---|---|
| **Initial** | | | | | | |
| BA 01 - Combat Aircraft | | | | | | |
| 0143 / EA-18G | - | 0.370 | - | 0.000 | - | 0.000 |
| 0145 / FA-18E/F | - | 3.800 | 52.000 | 0.000 | - | 0.000 |
| 0147 / Joint Strike Fighter CV | - | 68.106 | 97.612 | 112.265 | - | 112.265 |
| 0152 / JSF STOVL | - | 129.853 | 258.779 | 194.608 | - | 194.608 |
| 0158 / CH-53K (Heavy Lift) | - | 63.551 | 83.824 | 141.691 | - | 141.691 |
| 0164 / V-22 (Medium Lift) | - | 3.914 | 2.523 | 3.328 | - | 3.328 |
| 0178 / UH-1Y/AH-1Z | - | 3.557 | - | 0.000 | - | 0.000 |
| 0182 / MH-60R | - | 0.060 | - | 0.000 | - | 0.000 |
| 0193 / P-8A Poseidon | - | 3.066 | 0.010 | 0.295 | - | 0.295 |
| 0195 / E-2D AHE | - | 12.296 | 6.926 | 36.472 | - | 36.472 |
| BA 03 - Trainer Aircraft | | | | | | |
| 0339 / JT Primary Acft Trnr Sys (JPATS) | - | - | - | 2.803 | - | 2.803 |
| 0344 / Advanced Helicopter Training System | - | - | 9.005 | 15.312 | - | 15.312 |
| BA 04 - Other Aircraft | | | | | | |
| 0416 / KC-130J | - | 3.385 | 2.074 | 0.584 | - | 0.584 |
| 0442 / MQ-4 TRITON | - | 68.926 | 107.888 | 3.228 | - | 3.228 |
| 0443 / MQ-8 UAV | - | 0.077 | 0.099 | 1.608 | - | 1.608 |
| 0455 / VH-92A Executive Helo | - | 80.939 | 87.983 | 160.320 | - | 160.320 |
| 9401 / Spares for Repair of Repairables | - | 26.973 | 97.102 | 127.701 | - | 127.701 |
| BA 05 - Modification of Aircraft | | | | | | |
| 9504 / Spares for Modifications | - | 204.073 | 172.905 | 268.015 | - | 268.015 |
| BA 07 - Aircraft Support Equip & Facilities | | | | | | |
| 0720 / War Consumables | - | - | - | 0.512 | - | 0.512 |
| 9705 / Spares for Training Devices | - | 19.533 | 27.343 | 25.903 | - | 25.903 |
| 9707 / Spares for CSE Parts | - | 0.506 | 0.464 | 1.416 | - | 1.416 |
| 9708 / Spares for CASS Spares | - | 6.362 | 0.172 | 0.000 | - | 0.000 |
| 9709 / Spares for TCTS Spares | - | 0.092 | - | 2.541 | - | 2.541 |
| ***Subtotal: Initial*** | ***-*** | ***699.439*** | ***1,006.709*** | ***1,098.602*** | ***-*** | ***1,098.602*** |
| **Replenishment** | | | | | | |
| BA 07 - Aircraft Support Equip & Facilities | | | | | | |

| Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 06 / 1 | **P-1 Line Item Number / Title:** 0605 / Spares and Repair Parts | **Title:** APN spares |

| End Item Line Item Number / Name [MDAP/MAIS] | Prior Years ($ M) | FY 2019 ($ M) | FY 2020 ($ M) | FY 2021 Base ($ M) | FY 2021 OCO ($ M) | FY 2021 Total ($ M) |
|---|---|---|---|---|---|---|
| 9710 / Spares for 6K Cog | - | 20.352 | 16.605 | 24.752 | - | 24.752 |
| 9711 / Spares for Adversary | - | 0.479 | 0.493 | 0.508 | - | 0.508 |
| 9712 / Spares for HQ Replenishment | - | 35.236 | 39.981 | 25.290 | - | 25.290 |
| 9713 / Spares for AOA Repairables | - | 832.093 | 1,019.879 | 924.287 | - | 924.287 |
| 9714 / Spares for AOA Consumables | - | 91.194 | 84.935 | 125.021 | - | 125.021 |
| ***Subtotal: Replenishment*** | ***-*** | ***979.354*** | ***1,161.893*** | ***1,099.858*** | ***-*** | ***1,099.858*** |
| **Total Cost (Initial + Replenishment)** | **-** | **1,678.793** | **2,168.602** | **2,198.460** | **-** | **2,198.460** |

**Remarks:**

FY21 INITIAL SPARES BREAKDOWN($M):

JSF-F-35C CV (J0147): $112.265
Joint Strike Fighter CV Contractor Spares: $89.153
Joint Strike Fighter CV Engine Spares: $20.411
Joint Strike Fighter Peculiar Support Equipment (PSE): $2.701

JSF F-35B STOVL (J0152): $194.608
JSF STOVL Contractor Spares: $145.110
JSF STOVL Engine spares: $42.749
JSF STOVL Peculiar Support Equipment (PSE): $6.749

CH-53K (Heavy Lift) (J0158): $141.691
CH-53K (Heavy Lift) Contractor Spares: $69.323
CH-53K (Heavy Lift) PSE Spares: $72.368

V-22 (Medium Lift) (J0164): $3.328
V-22 (Medium Lift) Contractor Spares: $1.345
V-22 (Medium Lift) Engine Spares: $1.766
V-22 (Medium Lift) PSE Spares: $0.217

P-8A Poseidon (J0193): $0.295
P-8A Poseidon PSE Spares: $0.295

E-2D (J0195): $36.472
E-2D AHE Contractor Spares: $16.971
E-2D AHE Engine Spares: $19.136
E-2D AHE PSE Spares: $0.365

JT Primary Aircraft Trainer (J0339): $2.803
JPATS PSE Spares $2.803

Advanced Helicopter Training System (J0344): $15.312

| Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 06 / 1 | P-1 Line Item Number / Title: 0605 / Spares and Repair Parts | Title: APN spares |

AHTS Contractor Spares: $4.301
AHTS Engine Spares: $11.011

KC-130J-Marines (J0416): $.584
KC-130J-Marines Engine Spares: $0.584

MQ-4 TRITON (J0442): $3.228
MQ-4 TRITON Engine Spares: $2.973
MQ-4 TRITON PSE: $0.255

MQ-8 UAV (J0443): $1.608
MQ-8 UAV Engine: $1.517
MQ-8 PSE: $0.091

VH-92 Executive Helo (J0455): $160.320
VH-92 Contractor Spares: $152.099
VH-92 Engine Spares: $8.062
VH-92 Peculiar Support Equipment: $0.159

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FY21 SPARES FOR REPAIR OF REPAIRABLES (ROR) BREAKDOWN (J9401) ($M): $127.701
AV-8B: $0.063
C-130: $0.717
CH-53K: $18.766
CMV-22: $0.065
COM AVC: $31.050
CSE Avionics: $0.018
CSE Non-Avionics: $0.009
E-2 Series: $1.080
EP-3: $0.085
FA-18 E/F: $18.967
H-1: $0.229
MQ-4C Triton: $28.517
P-8 MMA: $9.855
VH-92A TDS: $18.280

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FY21 MODIFICATION SPARES BREAKDOWN (J9504)($M): $268.015
AV-8B: $1.662

Common ECM Equipment: $28.859
E-2 Series: $21.978
F-18 Series/IRST: $84.045
JPATS: $1.086
NGJ: $29.232
T-45TS (Trainer) Goshawk: $15.941
Trainer Aircraft Series: $6.220
C-130 Series: $7.273
E-6 SERIES: $6.211
VH: $1.099
H-1 Series: $10.293
H-60 Series: $8.803
MANNED RECONNAISSANCE SYSTEMS: $5.082
P-3 Series: $0.004
P-8 Series: $21.628
POWER PLANT CHANGES: $0.293
V-22 (TILT/ROTOR ACFT) OSPREY: $13.032
Common Avionics: $3.872
CASS E03 MOD KITS: $1.402

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War Consumables (J0720): $0.512
War Consumables Contractor Spares: $0.512

FY21 SPARES FOR TRAINING DEVICES (J9705) ($M): $25.903
TRAINING DEVICES - JSF $3.020
TRAINING DEVICES - VH92 $2.691
TRAINING DEVICES: $20.192
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FY21 HQ REPLENISHMENT SPARES BREAKDOWN (J9712)($M): $25.290
EXECUTIVE HELICOPTERS SERIES $7.546
DIRECT SUPPT SQDN $1.500
Project Bear trap $3.777
Manned Reconnaissance Systems: $7.005
E-6 $5.462

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FY21 AVIATION OUTFITTING ACCOUNT (AOA) SPARES BREAKDOWN (J9713)($M): $924.287
H-1 Series: $23.497
AV-8B: $9.994
MQ-4C: $12.404
CMV-22: $143.574

| Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 06 / 1 | P-1 Line Item Number / Title: 0605 / Spares and Repair Parts | Title: APN spares |

Common Avionics: $165.939
E-2 Series: $96.072
EA-6B: $0.669
F/A-18 Series: $131.909
H-53: $12.289
KC-130J: $4.597
MH-60R: $66.124
MH-60S: $42.049
P-3C: $0.657
P-8: $120.381
RQ-21 UAS (Blackjack): $9.716
Support Equipment: $35.378
V-22: $7.664
MQ-8: $41.374

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FY21 AVIATION OUTFITTING ACCOUNT CONSUMABLES (ACA)SPARES BREAKDOWN (J9714) ($M): $125.021
H-1 Series: $3.783
AV-8: $1.606
MQ-4C: $1.279
CMV-22: $14.797
Common Avionics: $19.938
E-2 Series: $9.876
EA-6B: $0.087
F/A-18 Series: $37.168
H-53: $1.981
KC-130J: $0.598
MH-60R: $6.815
MH-60S: $4.334
P-3C: $0.068
P-8: $12.407
RQ-21 UAS (Blackjack): $1.147
Support Equipment II: $3.646
V-22: $1.227
MQ-8: $4.264

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | Date: February 2020 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0705 / Common Ground Equipment |

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

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

| Resource Summary | Prior 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)* | 3,411.226 | 413.150 | 448.288 | 543.559 | 0.000 | 543.559 | 501.760 | 527.619 | 471.554 | 494.888 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 3,411.226 | 413.150 | 448.288 | 543.559 | 0.000 | 543.559 | 501.760 | 527.619 | 471.554 | 494.888 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **3,411.226** | **413.150** | **448.288** | **543.559** | **0.000** | **543.559** | **501.760** | **527.619** | **471.554** | **494.888** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Common Ground Equipment line funds procurement of Automatic Test Equipment (ATE), various aircraft systems trainers and training aids, the Consolidated Automated Support System Family of Testers (CASS FOT), support equipment for the Rapid Deployment Force, mobile maintenance facilities for Marine expeditionary forces, and other aircraft ground support equipment that is either peculiar to out-of-production aircraft or common in applicability to more than one aircraft. The requiring managers responsible for these procurements and the funds presently assigned to them are as follows: Ground Support Equipment, Mobile Maint Facilities, General Skills Training, Topscene, and Other Flight Training.

[P40A / AUTOMATIC TEST EQUIPMENT]: This sub-line provides for the transition of current Automated Test Equipment (ATE) Test Program Sets (TPSs) to AN/USM-636 Consolidated Automated Support System (CASS), AN/USM-702 Reconfigurable Transportable CASS (RTCASS) and AN/USM-730 electronic CASS (eCASS), the acquisition/modification of associated test routines of common ATE to meet operational requirements identified in the Fleet-concurred Common Support Equipment Operational List and the acquisition/modification of associated ancillary assets for CASS/RTCASS/eCASS to extend testing capability to meet these requirements.

TEST PROGRAM SETS (TPSs) TRANSITION TO CASS, RECONFIGURABLE TRANSPORTABLE CASS (RTCASS) AND eCASS: TPSs are support equipment consisting of hardware, software and documentation required to automatically fault isolate defective weapon system components and qualify them Ready-For-Issue (RFI). The budget requests funds for the procurement of TPSs to offload support from existing legacy ATE to CASS, RTCASS and eCASS as well as support of GFE requirements and CASS Family of Testers (FOT) stations at designated test integration facilities.

COMMON ATE ACQUISITION, MODIFICATION AND TEST ROUTINES: System acquisition and modification is necessary to replace obsolete and unsupportable equipment, support current technology, incorporate necessary reliability and maintainability improvements and correct Fleet-reported problems as a result of engineering investigations/Quality Deficiency Reports. Without these modifications, replacement parts will not be available and common ATE will not remain operational.

ASSOCIATED ANCILLARY ASSETS: CASS Family Ancillary assets extend the capabilities of CASS, RTCASS and eCASS to meet Unit Under Test (UUT) testing requirements where it is not feasible to upgrade the entire inventory of CASS Family testers. The budget requests funds for the acquisition and modification of these CASS ancillary assets. Without these modifications, these assets and the associated UUTs they support will not remain operational.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0705 / Common Ground Equipment | |
| **ID Code** (A=Service Ready, B=Not Service Ready): B | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

[P40A - 2 / A/C COMMON SUPPORT EQUIPMENT]: This budget sub-line provides for the acquisition of Support Equipment (SE) end items under the inventory and technical management of NAVAIR. These SE end items are required for ground testing handling, and maintenance of aircraft and their systems. Examples of SE items acquired under this budget line item include aircraft propulsion test systems, mobile air conditioners and generators and aircraft handling equipment.

Also included are common avionics support equipment (ASE) items which are too complex technically to be transitioned to the inventory control point for acquisition. The ASE included is managed by NAVAIR and supported through the Navy Inventory Control Point.

[P40A - 3 / ICP/HEADQUARTERS MANAGED SUPPORT EQUIPMENT]: This budget sub-line funds the procurement of end items of out of production weapon systems and Common Support Equipment (CSE) Deficits under the budget, procurement and inventory control of NAVICP. CSE end items are normally introduced into the fleet through NAVAIR development and initial procurement. When design stabilized and procurement packages are available, these items migrate to NAVICP management and are funded under this sub-line. NAVICP currently manages over 11,000 individual repairable support equipment end items.

Additionally, this sub-line funds Replacement of CSE that is not logistically cost effective to continue use and requires replacement, and modification of existing CSE to extend service life.

[P40A - 4 / PECULIAR SUPPORT EQUIPMENT (PSE)]: This budget sub-line funds the procurement of Peculiar Support Equipment (PSE) for out of production aircraft under the budget, procurement and inventory control of NAVAIR. Replacement of out-of-production aircraft in-use PSE items that are now marginally effective, due to obsolescence, or unavailability of associated logistics support. Design and production of PSE items that were not funded during the production phase of the weapon system, and modifications to out-of-production aircraft PSE to extend its useful service life. The PSE will support Fleet squadrons and Intermediate Level of Maintenance at both afloat and shore sites.

[P40A - 5 / CONSOLIDATED AUTOMATED SUPPORT SYSTEM]: The electronic Consolidated Automated Support System (eCASS) program is chartered to replace CASS MainFrame (MF) test stations in the Navy's inventory. CASS, RTCASS, and eCASS continue to replace 30+ different types of computer-based Automatic Test Equipment (ATE) with a single modern family of testers (FOT), which are cost effective COTS/NDI-based ATE systems designated as the Navy's Standard Family of ATE. There are four configurations of eCASS that will be fielded, which support the entire spectrum of electronics testing requirements from direct current to light: Hybrid [tests digital and analog], Radio Frequency (RF) [tests radars and electronic warfare systems], Electro-Optics (EO3) [tests FLIRs and LASERs], and High Power [high energy radar systems]. Reconfigurable Transportable Consolidated Automated Support System (RTCASS) [a man-transportable version of RF CASS] is currently used for USMC rotary/fixed wing aircraft maintenance. eCASS, with its advanced capability to support legacy and emerging platforms, and reduced logistics footprint, will replace the existing configurations of both CASS and CASS FOT obsolete systems. The CASS FOT supports intermediate and depot level repair of aircraft, ship, submarine and other weapon system electronics. The CASS FOT performs fault detection and diagnostic testing of almost 3,000 different "black boxes" and associated circuit cards from F/A-18A/B/C/D/E/F, T-45, AV-8B, EA-6B, H-60, H-3, E-2, C-2, and V-22 as well as several NAVSEA/SPAWAR weapon systems. eCASS, which is now in full-rate production, reached IOC in in 4QFY17.

CASS FOT replaces older, legacy ATE systems that have become obsolete (parts are no longer available) and too expensive to maintain. CASS FOT reduces afloat CVN ATE manning from 104 to 54 billets and reduces the size of the AVCAL (spare parts) from 30,000 to 3,500. CASS FOT also reduces technician Naval Enlisted Classifications (NECs) types, along with their training courses, from 32 to only 5. Each CVN will deploy with 14 eCASS stations and each LHD/LHA will deploy with two (2) stations. CASS FOT is utilized at intermediate and depot level maintenance facilities afloat and ashore to include Marine Aviation Logistics Squadrons (MALS), and Navy Fleet Readiness Centers (FRCs). RTCASS supports USMC V-22, rotary wing aircraft, and fixed wing aircraft.

Current and budget year requirements are needed for CASS FOT support of new and transitioning weapon systems. New Requirements: F/A-18E/F/G (multiple), P-8 (multiple), E-2C/D (multiple), MIDS (multiple), V-22, ATFLIR (F/A-18), MH-60R/S (multiple systems), UH-1Y and AH-1Z, EGI (multiple aircraft). Transitioning Legacy Testers: 30 legacy automatic testers that support Navy and USMC tactical aircraft.

In addition to production costs for the newest member of the CASS FOT (eCASS), program costs include: (1) incorporation of ECPs to permit systematic insertion of new technology to meet requirements of new weapon system avionics, (2) incorporation of test technologies required to offload Test Program Sets (TPSs) from legacy ATE, (3) efforts to ameliorate obsolescence and improve system reliability, maintainability and supportability, (4) rehosting existing TPSs to leverage increased capabilities of new software technology, (5) providing support of CASS FOT installations at fleet sites afloat and ashore, (6) maintaining items contractually required to be provided to contractors as Government Furnished Equipment, (7) maintaining supporting equipment used at CASS FOT laboratory and testing facilities, and (8) providing ancillary equipment necessary for functionality of CASS FOT.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0705 / Common Ground Equipment | |
| **ID Code** (A=Service Ready, B=Not Service Ready): B | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

The purpose of the Fourth-Generation Electro-Optics (EO4) program is to replace aging and obsolete third-generation electro-optic (EO3) consoles with a modernized variant. There are 65 existing Third-Generation Electro-Optics (EO3) systems located at both shore-based and afloat activities. The EO3 systems are hosted by the Consolidated Automated Support System (CASS/eCASS) family of test systems and are used to provide for maintenance, diagnosis, and repair of the H-60R/S Multi-spectral Targeting System (MTS) and the F/A-18C/D/E/F Advanced Targeting Forward Looking Infrared (ATFLIR) weapon systems. The fielded EO3 systems are experiencing increased failure rates and reduced weapon system availability due to obsolescence issues. The EO4 program will replace the existing EO3 systems with a modernized next-generation electro-optics system that is designed and developed as either a new design or an Engineering Change Proposal (ECP) to the existing system, as determined by the competitive procurement process. The EO4 system will meet all existing weapons system requirements, as well as the anticipated emerging requirements of new or upgraded FLIR, laser and optical weapons systems. Full Rate Production (FRP) is planned in FY24.

In addition to production costs, the EO4 program costs also include: (1) Incorporation of ECPs to permit systematic insertion of new technology to meet requirements of emerging electro-optic weapon system avionics. (2) Incorporation of test technologies required to support emerging Test Program Sets (TPSs). (3) Efforts to mitigate future obsolescence and improve system reliability, maintainability and supportability. (4) Migration of existing TPSs from EO3 to EO4 to leverage increased capabilities of new software and technology. (5) Providing support for EO4 installations at fleet sites afloat and ashore, (6) maintaining any contractually provided Government Furnished Equipment.

The EO3 obsolescence issues and increased failure rates are causing degradation to H-60 MTS and F/A-18 ATFLIR weapons system readiness, which results in a Non-Mission Capable (NMC) aircraft status. Without resolution of these issues, availability of these critical weapons systems will continue to degrade. The Center for Naval Analyses (CNA) released a report in March 2016 that strongly recommended proceeding with a next-generation EO4 variant and presented a cost benefit analysis that projected significant (potentially > 60%) EO4 life-cycle cost savings. Historical data depicts that this fielded EO test capability results in $140M of annual cost avoidance for H-60 MTS and F/A-18 ATFLIR weapons system support costs.

[P40A - 6 / MOBILE MAINTENANCE FACILITIES]: The Mobile Facility (MF) Program provides the overarching management construct to ensure configuration management and life cycle logistics for the Fleet MF inventory. The program provides engineering design solutions, production efforts and life cycle logistics in support of Navy and Marine Corps logistics requirements.

The primary component is the MF, a 20'x8'x8' tactical shelter that meets structural and dimensional requirements of the International Organization for Standardization (ISO), the American National Standards Institute (ANSI), and the American Society for Testing and Material (ASTM). Designed for a 20-year service life, MF's are heated and cooled by Environmental Control Units, which the program procures and logistically supports. In tactical environments, electrical power required to support MF complexes is provided by DOD standard generator sets. The Naval Air Systems Command (NAVAIR) acts as the Primary Inventory Control Activity (PICA) for multi-service procurement of NAVAIR MFs and related ancillary equipment.

MF's are an Air Combat Element (ACE) Aviation Logistics (AVLOG) integration enabler, which make the Marine Air Ground Task Force (MAGTF) more responsive, agile, flexible and lethal via support and sustain operations in austere expeditionary environments. This supports the Naval Air Enterprise (NAE) Strategic Plan, Marine Corps Vision & Strategy 2025, and the USMC Long War Concept. MFs provide containerized aviation logistics support to the operational commander that can be rapidly deployed by all transportation modes to any location in the world. Operationally, MFs provide the Navy and Marine Corps with a quick response stand-alone capability to meet worldwide operational commitments. Economically, MFs reduce the need for MILCON and allow for worldwide transportability.

Key Attributes:
- Fully integrated and expeditionary logistics capability deployable via ship, airlift or truck. Operationally deployable aboard Transport-Aviation Logistics Support Ship (TAVB) And Maritime Prepositioning Ships (MPS).
- Provides an effective, reliable and affordable self-contained aircraft maintenance capability (avionics, airframes, et. al.)
- Provides for supply support functions (work space, parts storage & parts transport)

[P40A - 7 / GENERAL SKILLS TRAINING]: General Skill Training provides for the procurement of aviation training systems, including training devices and associated courseware, which are not associated with a specific aircraft platform. As required, includes modifications and updates to reflect changes in technology or operating environment.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0705 / Common Ground Equipment | |
| **ID Code** (A=Service Ready, B=Not Service Ready): B | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

Major Programs: The 'A' School Program's function is to provide initial foundational and theoretical skills training to all Navy/Marine Corps Officer and Enlisted personnel. It provides training for 20 aviation ratings, supporting 196 Navy Enlisted Classifications (NEC), 96 USMC Military Occupational Specialties (MOS) and 17 USN/USMC Officer Designators/MOS's. Advance Skills Management System (ASM) is a software application designed to identify job task requirements, assist in determining proficiencies, document qualification/certifications, track completed technical training and aviation maintenance personnel progress across an individual's career within their respective Maintenance Personnel Readiness (MPR)/Marine Corp Training & Readiness (T&R) in support of the Naval Aviation Enterprise (NAE). The Air Traffic Control (ATC) program provides the necessary simulated training and learning opportunities for shore and sea based air traffic control operations to Navy and Marine Corp personnel. The Landing Signal Officer (LSO) Program provides realistic simulation for shipboard fixed-wing aircraft recovery for training, certification and proficiency at visual aircraft recoveries while at sea, through the use of an aircraft carrier landing area trainer. The Naval Aviation Survival Training Program (NASTP) provides mission critical survival training systems and systems support for Navy and Marine Corps Aircrew and selected DoD personnel. The Air Combat Training Continuum (ACTC) Program provides the framework for post-Fleet Replacement Squadron (FRS) tactical aircrew training. The mission of ACTC is to provide Fleet, Joint, and Allied Force Commanders with quality combat-ready Naval Aviators capable of effectively executing in all mission areas. The Air Combat Training System (ACTS) is a Training Management System (TMS) that operates in a secure environment, ashore, and afloat, to deliver training content to the aviator as well as track and report his/her progress through the ACTC curriculum. Common ASW (CASW) produces airborne ASW training systems for officer and enlisted Aircrew for all ASW platforms (including P-3, H-60, P-8 and Triton) teaching critical analysis skills using computer courseware, table top trainers and ONI analysis products.

[P40A - 8 / TOPSCENE]: TOPSCENE is a mission planning requirement that provides realistic 3D mission rehearsal, training, and reusable visual terrain databases to the Navy Fleet, Fleet Marine Forces, major war fighting commands, and unified commanders. TOPSCENE/Tactical Terrain Visualization System (TTVS) includes a range of programs including mission rehearsal tools, part simulation, and target database production tools. TOPSCENE/TTVS provides time critical mission rehearsal visual database of sensitive target areas for effective preparation of the battlefield. TOPSCENE/TTVS is a standalone application that may also be integrated with mission planning systems (JMPS) and contributes to satisfying the mission rehearsal requirement in the JMPS Operational Requirements Document.

[P40A - 9 / OTHER FLIGHT TRAINING]: Other Flight Training procures upgrades/modernization to operational trainers not driven by retrofit changes to aircraft driven by an Operational Safety and Improvement Program (OSIP) or forward-fit changes made during the production of the aircraft classified as an investment cost. Also, trainer procurements to replace obsolete/beyond capability of repair trainers if classified as an investment cost are included.

Navy Aviation Simulation Master Plan (NASMP) investments modernize multiple Navy platform training systems through obsolescence mitigation, fidelity improvements, and distributed mission training (DMT) connectivity across all Navy Aviation T/M/S trainers. NASMP procures expanded Integrated Training capabilities for the Fleet at the Naval Aviation Warfighting Development Center (NAWDC) at Fallon, NV, through the Integrated Training Facility (ITF), Air Wing Training Facility (AWTF), and Air Defense Strike Group Facility (ADSGF). Expansion of the Navy Aviation Distributed Training Center (NADTC) will provide multi-level security and capability to conduct two distributed mission training events in parallel. FY 2021 will focus on distributed high-end fight capability for Carrier Strike Group training.

The Headquarters, Marine Corps (HQMC) Federation will invest in modernization of USMC KC-130, H-1, CH-53, V-22, F/A-18C/D, AV-8B, Presidential Helicopters, Marine Air Ground Task Force (MAGTF) Integration, Aviation Command and Control, Close Air Support/Joint Terminal Attack Controller (CAS/JTAC), and common systems training devices as planned in the HQMC Aviation Plan (AVPLAN). The Aviation Distributed Virtual Training Environment (ADVTE) infrastructure, along with the Tactical Environment (TEn) software will be modernized for existing 2nd and 3rd Marine Air Wing (MAW) sites; while ADVTE capability will be procured and installed for the 1st MAW site. Live Virtual Constructive (LVC) requirements will establish persistent integrated training between Naval Forces (Navy and Marine Corps); Joint, Interagency, International, Multinational (JIIM) partners; AEGIS; Carrier Air Wing; Maritime; and Unmanned Aerial Systems (UAS) aircraft, equipment, platforms, systems, and their respective training assets by enabling an LVC capability with live aircraft on various Department of Defense range facilities. To facilitate LVC integration into the USMC training systems, Marine Virtual Warfare Center (MVWC), and Common Virtual Training Environment (CVAT) will be required. Training courseware and curriculums will be procured for transformational Marine Corps Aircraft.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | Date: February 2020 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment |

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

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

| Exhibits Schedule | | | | | Prior Years | FY 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 | AUTOMATIC TEST EQUIPMENT | | | | - / 420.654 | - / 25.451 | - / 23.645 | - / 24.443 | - / - | - / 24.443 |
| P-40a | A/C COMMON SUPPORT EQUIPMENT | P-5a, P-21 | | | - / 420.923 | - / 58.379 | - / 55.801 | - / 56.928 | - / - | - / 56.928 |
| P-40a | ICP/HEADQUARTERS MANAGED SUPPORT EQUIPMENT | | | | - / 231.130 | - / 27.334 | - / 23.263 | - / 25.736 | - / - | - / 25.736 |
| P-40a | PECULIAR SUPPORT EQUIPMENT (PSE) | | | | - / 0.000 | - / 29.106 | - / 1.600 | - / 21.447 | - / - | - / 21.447 |
| P-40a | CONSOLIDATED AUTOMATED SUPPORT SYSTEM | P-5a, P-21 | | | - / 1,041.410 | - / 86.365 | - / 85.954 | - / 93.614 | - / - | - / 93.614 |
| P-40a | MOBILE MAINTENANCE FACILITIES | P-5a | | | - / 136.128 | - / 6.841 | - / 6.947 | - / 7.027 | - / - | - / 7.027 |
| P-40a | GENERAL SKILLS TRAINING | P-5a | | | - / 64.932 | - / 10.460 | - / 10.275 | - / 13.914 | - / - | - / 13.914 |
| P-40a | TOPSCENE | | | | - / 10.623 | - / - | - / - | - / - | - / - | - / - |
| P-40a | OTHER FLIGHT TRAINING | P-5a, P-21 | | | - / 1,085.426 | - / 169.214 | - / 240.803 | - / 300.450 | - / - | - / 300.450 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 3,411.226** | **- / 413.150** | **- / 448.288** | **- / 543.559** | **- / 0.000** | **- / 543.559** |

*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**

AUTOMATIC TEST EQUIPMENT:
FY21 provides funding to offload multiple weapon system Operation Test Program Sets (OTPSs) to CASS, RTCASS, eCASS and funds production of several High Speed Subsystem (HSS) ancillary assets.

A/C COMMON SUPPORT EQUIPMENT:
FY21 provides funding to procure CRAFT Radio Test Set ECP, Shore 1000/2000 Gallon Lox Tanks, Particle Counter, SD2 Replacement, CVN Class Ship Crash Crane, Diesel & Electric Servicing Platform, L-Class Ship Crash Crane, First Destination Transportation Cost for hardware, Engineering Change Proposals to address minor CSE performance and obsolescence issues and associated support cost.

ICP/HEADQUARTERS MANAGED SUPPORT EQUIPMENT:
FY21 provides funding for the procurement of end items of out of production weapon systems and Common Support Equipment (CSE) Deficits/Replacements under the budget, procurement and inventory control of Naval Inventory Control Point (NAVICP).

PECULIAR SUPPORT EQUIPMENT:
FY21 provides funding to procure PSE for the MH-60S/R, E-2C/D and various out of production aircraft to fill Fleet site inventory deficits and replace PSE that has parts obsolescence issues and no longer cost effective to use. In addition, FY21 provides funding for COMFRC Equipment Reconstitution and USMC Adaptive Manufacturing efforts.

CONSOLIDATED AUTOMATED SUPPORT SYSTEM:
FY21 provides funding to procure (32) eCASS systems and associated ancillary equipment.

MOBILE MAINTENANCE FACILITIES:
Investment in the MF Program ensures a fully deployable logistics capability that can be deployed in a building block fashion across the battle space, whether at sea or on land, in support of aircraft maintenance and supply support operations. The Program of Record inventory objective is 3,531 MFs. This objective is based on the Marine Corps Table of Basic Allowance (TBA) and Weapon System Planning Documents (WSPD), which find their roots in the various operational plans supporting the National Defense Strategy. Current active inventory is 3,119 MFs.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0705 / Common Ground Equipment | |
| **ID Code** (A=Service Ready, B=Not Service Ready): B | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

GENERAL SKILLS TRAINING:
Increase in FY21 from previous submission is for the ATC 15G31 Shore Based RADAR Bay upgrade.

ACTS: Upgrades 50 Air Combat Training System (ACTS) expeditionary Laptops that provide a mobile ACTC training capability to deploying Aircrew.

ATC: Provides for the upgrade of the USMC ATNAVICS simulator which provides deployable realistic training and proficiency to USMC Field Air Traffic Control Units. The 15G31 Shore based RADAR Bay Upgrade will provide realistic shore based RADAR operations training to entry level Air Traffic Controllers at Naval Air Technical Training Center Pensacola Florida.

NASTP: Upgrades the 9H1 Helo Hoist Trainer (Helo dunker) and 9F9A Parachute Over Water Survival Trainer (POST) to eliminate obsolescence issues and provide safe survival training for Aircrew.

CASW: Upgrades the Interactive Multi-Sensors Analysis Trainer (IMAT) trainer courseware to incorporate the latest learning technology and ASW threat analysis.

OTHER FLIGHT TRAINING:
Increase in FY21 from previous submission represents a significant investment in the LVC 2025 vision for high-end fight training capability. Funds trainer updates to further align simulator and aircraft capabilities and to provide network upgrades to establish a secure Virtual-Constructive (VC) battlespace, necessary to replicate near-peer threats and provide Carrier Strike Group training for missions that cannot be conducted live due to range and OPSEC limitations.

NASMP/LVC Programs:
CNATRA: Upgrade Chief of Naval Aviation Training (CNATRA) Simulators and Ground Based Training Systems (GBTS)Investment is necessary to address obsolescence issues and keep CNATRA simulators operable for a continuous 16 hours a day, 252 days per year to meet pilot and Naval Flight Officer production goals. FY21 efforts include procurement and integration of commercial Virtual Reality (VR) displays for rapid insertion of low cost visual system upgrades, tech refresh of the T-45C aft cockpit Virtual Mission Training System (VMTS) OFT and T-45C Virtual Mission Training System (VMTS) Instructor Ground Station (IGS) at Pensacola.

Common Simulation Products: Procures annual upgrades to common software products, including new models, increased model complexity, and to meet Information Assurance (IA) requirements. Next Generation Threat System (NGTS) models threat and friendly aircraft, ground units, ships, submarines, associated weapons, sensors, and subsystems. Weapons Server Common Environment (WSCE) provides Own Ship weapon models for fair fight capability across differing virtual and constructive devices interacting in a synthetic environment. NAVAIR Portable Source Initiative (NPSI) provides maximum visual database reuse across multiple simulator platforms to lower the life cycle cost of out the window visual terrain, 3D models, and sensor databases. Common Acoustic Simulation Environment (CASE) simulates sound propagation and reverberation for Anti-Submarine Warfare (ASW) training in a high fidelity ocean environment.

NADTC and Distributed Mission Training: Procure Strike Distributed Mission Training (DMT) capability upgrades to ensure electronic warfare/threat simulation is common across all mission participants, resolve simulator network discrepancies, address platform trainer limitations that prevent repeatable distributed training capability, voice communications upgrades, and jamming. Includes updated hardware and software for Navy Aviation
Distributed Training Center (NADTC) to provide simultaneous operations, expanded training support, and multi-level security architecture. Includes upgrades to approximately 130 F/A-18 E/F, EA-18-G, E-2D, and F-35C simulators at multiple Fleet sites across the FYDP in order to enable a realistic, relevant, and recordable secure virtual environment. Critical to achieving the LVC 2025 vision to ensure high-end fight capability for the Warfighter without the limitations of training range operations.

NCTE: Procurement of Navy Continuous Training Environment (NCTE) nodes to increase training system connectivity to deliver Fleet Live, Virtual and Constructive training capabilities.

Cross Domain Solutions: Upgrade to Cross Domain Solution (CDS) to meet multi-level security requirements for unit level and DMT events.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0705 / Common Ground Equipment | |
| **ID Code** (A=Service Ready, B=Not Service Ready): B | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

Naval Aviation Warfighting Development Center (NAWDC)/LVC/Air Defense Strike Group Facility (ADSGF): Procure Low Cost Trainers (LCTs) for fielding and integration within the Integrated Training Facility (ITF) Fallon, NV, and integrate training system architectures at both the ITF and ADSGF.

FA/EA-18: Procure F/A-18 cockpit hardware upgrades, aero model upgrades, own ship upgrades, console and display upgrades, and audio control upgrades necessary to meet NASMP end-state requirements for simulation fidelity, allowing more training and readiness to be conducted in simulators and reducing costs in the flying hour program. Procure F/A-18 LCTs to address simulator training capacity limitations for high end fight Naval Integrated Fire Control (NIFC) distributed training and meet NASMP end-state requirements at East and West coast sites. LCTs will be integrated with common NCTE network infrastructure.

P-8A: Upgrade P-8A training devices at NAS Jacksonville, FL and NAS Whidbey Island, WA to Windows 10 to meet cybersecurity requirements necessary to retain Authority to Operate (ATO) and Authority to Connect (ATC) to the NCTE.

E-2D: Upgrade E-2D Hawkeye Integrated Training System (HITS) to Windows 10 to meet cybersecurity requirements necessary to retain Authority to Operate (ATO) and Authority to Connect (ATC) to the NCTE. Upgrade is required to enable DMT and support Fleet NIFC and LVC training requirements. Upgrade obsolete E-2D Simulated Maintenance Trainer (SMT). Upgrade common NGTS Synthetic Environment Generator to most up-to-date version to model friendly and adversary aircraft, ground units, ships, submarines, associated weapons, sensors and subsystems. Upgrade image projectors for three Operational Flight Trainers (OFT).

E-6B: Modernize the E-6 Operational Flight Trainer (OFT) to increase maintainability and availability for Fleet training requirements which include maneuvers and flight situations that cannot be performed safely in the aircraft.

H-60: Procure tech refresh H-60 maintenance trainer. Procure visual database upgrade. Upgrade H-60 training devices to meet cybersecurity requirements necessary to retain Authority to Operate (ATO) and Authority to Connect (ATC) to the NCTE. Upgrade Mine Warfare (MIW) training capability.

HQMC Federation Programs:
Aviation Distributed Virtual Training Environment (ADVTE): Expansion and modernization of ADVTE, to include implementation of a Common Virtual Training Area (CVTA), upgrading of the Tactical Environment network (Ten), Marine Virtual Warfare Center (MVWC) and Common Virtual Training Environment (CVAT).

KC-130J OCONUS Weapon System Trainer (WST) Modernization will upgrade obsolete components and improve trainer availability (less down time). Over 50% of Aircrew flight training is conducted in the WST directly reducing flying hour costs and improving mission readiness of aircraft.

AH-1Z and UH1Y Flight Training Device (FTD) Modernization to reduce trainer hardware obsolescence, improve visual displays, increase software reliability and enhance cyber security. Over 50% of Aircrew flight training is conducted in simulators directly reducing flying hour costs and improving mission readiness of aircraft.

MV-22: MV-22 Containerized Flight Training Device (CFTD) modernization to 4 of 23 simulation devices will upgrade obsolete components and improve trainer availability (less down time). Over 50% of Aircrew flight training is conducted in the CFTD directly reducing flying hour costs and improving mission readiness of aircraft.

AV-8B Maintenance Trainer (MT) Modernization to improve trainer availability (less down time). AV-8B maintenance personnel learn initial and reoccurring troubleshooting and repair skills which contribute to lowering the maintenance troubleshooting & repair time resulting in higher fleet readiness.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items Title:** AUTOMATIC TEST EQUIPMENT |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | |
| 1.1) TPS Transition to CASS | A | | - | - | 291.938 | - | - | 18.830 | - | - | 17.325 | - | - | 17.906 | - | - | - | - | - | 17.906 |
| ***Subtotal: 1) Hardware*** | | | **-** | **-** | ***291.938*** | **-** | **-** | ***18.830*** | **-** | **-** | ***17.325*** | **-** | **-** | ***17.906*** | **-** | **-** | **-** | **-** | **-** | ***17.906*** |
| **2) Non-Recurring** | | | | | | | | | | | | | | | | | | | | |
| 2.1) TPS Transition to CASS | A | | - | - | 8.777 | - | - | 0.973 | - | - | 1.009 | - | - | 1.039 | - | - | - | - | - | 1.039 |
| ***Subtotal: 2) Non-Recurring*** | | | **-** | **-** | ***8.777*** | **-** | **-** | ***0.973*** | **-** | **-** | ***1.009*** | **-** | **-** | ***1.039*** | **-** | **-** | **-** | **-** | **-** | ***1.039*** |
| **3) ILS** | | | | | | | | | | | | | | | | | | | | |
| 3.1) TPS Transition to CASS | A | | - | - | 29.619 | - | - | 1.797 | - | - | 1.817 | - | - | 1.958 | - | - | - | - | - | 1.958 |
| ***Subtotal: 3) ILS*** | | | **-** | **-** | ***29.619*** | **-** | **-** | ***1.797*** | **-** | **-** | ***1.817*** | **-** | **-** | ***1.958*** | **-** | **-** | **-** | **-** | **-** | ***1.958*** |
| **4) Production Engineering** | | | | | | | | | | | | | | | | | | | | |
| 4.1) TPS Transition to CASS | A | | - | - | 90.320 | - | - | 3.851 | - | - | 3.494 | - | - | 3.540 | - | - | - | - | - | 3.540 |
| ***Subtotal: 4) Production Engineering*** | | | **-** | **-** | ***90.320*** | **-** | **-** | ***3.851*** | **-** | **-** | ***3.494*** | **-** | **-** | ***3.540*** | **-** | **-** | **-** | **-** | **-** | ***3.540*** |
| **Total** | | | **-** | **-** | **420.654** | **-** | **-** | **25.451** | **-** | **-** | **23.645** | **-** | **-** | **24.443** | **-** | **-** | **-** | **-** | **-** | **24.443** |

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

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: A/C COMMON SUPPORT EQUIPMENT |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | |
| 1.1) Weapons Control - Cralts Replacement (CAATS)(†) | A | | 129,718.75 | 192 | 24.906 | 128,125.00 | 26 | 3.331 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.2) Vibration - Vibration Analyzer(†) | B | | 17,583.33 | 108 | 1.899 | 10,000.00 | 100 | 1.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.3) Shipboard Fire Trucks - A/S32-P-25A Fire Truck CILOP | A | | 161,200.00 | 65 | 10.478 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5) COMM/NAV I/D - CRAFT Radio Test Set ECP(†) | B | | - | - | - | - | - | - | - | - | - | 40,000.00 | 5 | 0.200 | - | - | - | 40,000.00 | 5 | 0.200 |
| 1.6) S/W Loader - Next Generation Software Loader(†) | A | | 38,690.29 | 649 | 25.110 | 30,975.00 | 40 | 1.239 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.8) Cryogenics - Shore 1000/2000 Gallon Lox Tanks (1)(†) | B | | - | - | - | 200,000.00 | 7 | 1.400 | 200,000.00 | 7 | 1.400 | 200,000.00 | 20 | 4.000 | - | - | - | 200,000.00 | 20 | 4.000 |
| 1.9) Hydraulics - Hydraulic Test Stand I Level | A | | 161,081.08 | 74 | 11.920 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.10) Hydraulics - Particle Counter(†) | B | | - | - | - | 15,000.00 | 10 | 0.150 | - | - | - | 15,130.00 | 196 | 2.965 | - | - | - | 15,130.00 | 196 | 2.965 |
| 1.12) Propulsion - V35 Dynamometer Replacement(†) | B | | - | - | - | - | - | - | 917,000.00 | 1 | 0.917 | - | - | - | - | - | - | - | - | - |
| 1.13) Platform Support - Air Conditioner Ship Shore(†) | A | | 136,418.33 | 251 | 34.241 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.14) Platform Support - SD2 Replacement(†) | B | | 155,000.00 | 5 | 0.775 | - | - | - | 155,000.00 | 60 | 9.300 | 155,000.00 | 48 | 7.440 | - | - | - | 155,000.00 | 48 | 7.440 |
| 1.15) Platform Support - CVN Class Ship Crash Crane (2)(†) | B | | - | - | - | - | - | - | - | - | - | 1,700K | 1 | 1.700 | - | - | - | 1,700K | 1 | 1.700 |
| 1.16) Platform Support - 1500lb Utility Maintenance Crane(†) | B | | - | - | - | - | - | - | 65,000.00 | 5 | 0.325 | - | - | - | - | - | - | - | - | - |
| 1.17) Platform Support - Diesel & | B | | - | - | - | - | - | - | 100,000.00 | 6 | 0.600 | 100,000.00 | 94 | 9.400 | - | - | - | 100,000.00 | 94 | 9.400 |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: A/C COMMON SUPPORT EQUIPMENT |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| Electric Servicing Platform (3)(†) | | | | | | | | | | | | | | | | | | | | |
| 1.18) Platform Support - L Class Ship Crash Crane(†) | B | | - | - | - | - | - | - | - | - | - | 1,500K | 1 | 1.500 | - | - | - | 1,500K | 1 | 1.500 |
| 1.19) Electrical - Large Capacity MEPP | A | | 70,341.77 | 395 | 27.785 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.20) Electrical - Small Capacity MEPP (Shipboard)(†) | A | | 168,736.84 | 38 | 6.412 | 169,250.00 | 35 | 5.924 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.21) Electrical - Medium Capacity MEPP(†) | B | | - | - | - | - | - | - | 86,500.00 | 4 | 0.346 | - | - | - | - | - | - | - | - | - |
| 1.22) Electrical - AECTS Replacement/ Modification (4)(†) | B | | - | - | - | 950,000.00 | 5 | 4.750 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.23) Electriconic Warfare- JSECST Upgrade | A | | 49,103.66 | 164 | 8.053 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.24) First Destination Transportation Costs (5) | A | | - | - | 1.600 | - | - | 0.800 | - | - | 0.700 | - | - | 0.700 | - | - | - | - | - | 0.700 |
| 1.25) Engineering Change Proposal (ECP) (6) | A | | - | - | - | - | - | 0.475 | - | - | 0.500 | - | - | 0.500 | - | - | - | - | - | 0.500 |
| ***Subtotal: 1) Hardware*** | | | **-** | **-** | ***153.179*** | **-** | **-** | ***19.069*** | **-** | **-** | ***14.088*** | **-** | **-** | ***28.405*** | **-** | **-** | **-** | **-** | **-** | ***28.405*** |
| **2) Non Recurring** | | | | | | | | | | | | | | | | | | | | |
| 2.1) Weapons Control | A | | - | - | 5.742 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.2) Vibration | A | | - | - | 3.306 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.6) COMM/NAV I/D | A | | - | - | 0.692 | - | - | 3.800 | - | - | - | - | - | 2.500 | - | - | - | - | - | 2.500 |
| 2.7) Software Load | A | | - | - | 6.766 | - | - | 1.109 | - | - | 0.620 | - | - | - | - | - | - | - | - | - |
| 2.8) Non Destruct Inspection (NDI) | A | | - | - | 0.017 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.9) Cryogenics | A | | - | - | - | - | - | 0.200 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.10) Hydraulics | A | | - | - | 3.071 | - | - | 2.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.11) Propulsion | A | | - | - | 2.782 | - | - | - | - | - | 2.050 | - | - | - | - | - | - | - | - | - |
| 2.12) Platform Support | A | | - | - | 7.393 | - | - | - | - | - | 6.957 | - | - | - | - | - | - | - | - | - |
| 2.13) Electrical | A | | - | - | 5.162 | - | - | 5.675 | - | - | 4.800 | - | - | - | - | - | - | - | - | - |
| 2.14) Electronic Warfare | A | | - | - | 0.859 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 2) Non Recurring*** | | | **-** | **-** | ***35.790*** | **-** | **-** | ***12.784*** | **-** | **-** | ***14.427*** | **-** | **-** | ***2.500*** | **-** | **-** | **-** | **-** | **-** | ***2.500*** |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: A/C COMMON SUPPORT EQUIPMENT |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **3) ILS** | | | | | | | | | | | | | | | | | | | | |
| 3.1) Weapons Control | A | | - | - | 2.235 | - | - | 0.295 | - | - | 0.297 | - | - | 0.269 | - | - | - | - | - | 0.269 |
| 3.2) Vibration | A | | - | - | 0.904 | - | - | 0.101 | - | - | 0.080 | - | - | 0.082 | - | - | - | - | - | 0.082 |
| 3.3) Corrosion | A | | - | - | 0.636 | - | - | 0.050 | - | - | 0.040 | - | - | 0.033 | - | - | - | - | - | 0.033 |
| 3.4) Aircraft Wiring | A | | - | - | 1.104 | - | - | 0.147 | - | - | 0.145 | - | - | 0.126 | - | - | - | - | - | 0.126 |
| 3.5) Shipboard Fire Trucks | A | | - | - | 1.026 | - | - | 0.080 | - | - | 0.075 | - | - | 0.061 | - | - | - | - | - | 0.061 |
| 3.6) COMM/NAV I/D | A | | - | - | 1.854 | - | - | 0.100 | - | - | 0.085 | - | - | 0.080 | - | - | - | - | - | 0.080 |
| 3.7) Software Load | A | | - | - | 0.692 | - | - | 0.095 | - | - | 0.096 | - | - | 0.075 | - | - | - | - | - | 0.075 |
| 3.8) Non Destruct Inspection (NDI) | A | | - | - | 3.708 | - | - | 0.295 | - | - | 0.275 | - | - | 0.269 | - | - | - | - | - | 0.269 |
| 3.9) Cryogenics | A | | - | - | 1.717 | - | - | 0.200 | - | - | 0.195 | - | - | 0.177 | - | - | - | - | - | 0.177 |
| 3.10) Hydraulics | A | | - | - | 1.339 | - | - | 0.200 | - | - | 0.260 | - | - | 0.204 | - | - | - | - | - | 0.204 |
| 3.11) Propulsion | A | | - | - | 5.903 | - | - | 0.730 | - | - | 0.750 | - | - | 0.688 | - | - | - | - | - | 0.688 |
| 3.12) Platform Support | A | | - | - | 10.834 | - | - | 1.390 | - | - | 1.395 | - | - | 1.323 | - | - | - | - | - | 1.323 |
| 3.13) Electrical | A | | - | - | 5.787 | - | - | 0.840 | - | - | 0.840 | - | - | 0.795 | - | - | - | - | - | 0.795 |
| 3.14) Electronic Warfare | A | | - | - | 0.925 | - | - | 0.090 | - | - | 0.087 | - | - | 0.071 | - | - | - | - | - | 0.071 |
| ***Subtotal: 3) ILS*** | | | ***-*** | ***-*** | ***38.664*** | ***-*** | ***-*** | ***4.613*** | ***-*** | ***-*** | ***4.620*** | ***-*** | ***-*** | ***4.253*** | ***-*** | ***-*** | ***-*** | ***-*** | ***-*** | ***4.253*** |
| **4) Production Engineering Support** | | | | | | | | | | | | | | | | | | | | |
| 4.1) Weapons Control | A | | - | - | 11.367 | - | - | 1.416 | - | - | 1.420 | - | - | 1.349 | - | - | - | - | - | 1.349 |
| 4.2) Vibration | A | | - | - | 4.607 | - | - | 0.437 | - | - | 0.380 | - | - | 0.406 | - | - | - | - | - | 0.406 |
| 4.3) Corrosion | A | | - | - | 1.018 | - | - | 0.079 | - | - | 0.078 | - | - | 0.060 | - | - | - | - | - | 0.060 |
| 4.4) Aircraft Wiring | A | | - | - | 5.395 | - | - | 0.606 | - | - | 0.600 | - | - | 0.569 | - | - | - | - | - | 0.569 |
| 4.5) Shipboard Fire Trucks | A | | - | - | 7.780 | - | - | 0.924 | - | - | 0.928 | - | - | 0.875 | - | - | - | - | - | 0.875 |
| 4.6) COMM/NAV I/D | A | | - | - | 10.133 | - | - | 1.182 | - | - | 1.188 | - | - | 1.124 | - | - | - | - | - | 1.124 |
| 4.7) Software Load | A | | - | - | 5.940 | - | - | 0.720 | - | - | 0.723 | - | - | 0.679 | - | - | - | - | - | 0.679 |
| 4.8) Non Destruct Inspection (NDI) | A | | - | - | 12.714 | - | - | 1.424 | - | - | 1.436 | - | - | 1.357 | - | - | - | - | - | 1.357 |
| 4.9) Cryogenics | A | | - | - | 11.920 | - | - | 1.402 | - | - | 1.415 | - | - | 1.336 | - | - | - | - | - | 1.336 |
| 4.10) Hydraulics | A | | - | - | 7.690 | - | - | 0.919 | - | - | 1.023 | - | - | 0.874 | - | - | - | - | - | 0.874 |
| 4.11) Propulsion | A | | - | - | 22.378 | - | - | 2.528 | - | - | 2.475 | - | - | 2.421 | - | - | - | - | - | 2.421 |
| 4.12) Platform Support | A | | - | - | 27.877 | - | - | 3.099 | - | - | 3.090 | - | - | 2.971 | - | - | - | - | - | 2.971 |
| 4.13) Electrical | A | | - | - | 9.836 | - | - | 1.242 | - | - | 1.311 | - | - | 1.181 | - | - | - | - | - | 1.181 |
| 4.14) Electronic Warfare | A | | - | - | 10.682 | - | - | 1.301 | - | - | 1.325 | - | - | 1.238 | - | - | - | - | - | 1.238 |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items Title:** A/C COMMON SUPPORT EQUIPMENT |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| ***Subtotal: 4) Production Engineering Support*** | | | **-** | **-** | ***149.337*** | **-** | **-** | ***17.279*** | **-** | **-** | ***17.392*** | **-** | **-** | ***16.440*** | **-** | **-** | **-** | **-** | **-** | ***16.440*** |
| **5) Installations** | | | | | | | | | | | | | | | | | | | | |
| 5.1) Non FMP Installations | A | | - | - | 22.072 | - | - | 2.016 | - | - | 2.074 | - | - | 2.230 | - | - | - | - | - | 2.230 |
| 5.2) FMP Installations | A | | - | - | 21.881 | - | - | 2.618 | - | - | 3.200 | - | - | 3.100 | - | - | - | - | - | 3.100 |
| ***Subtotal: 5) Installations*** | | | **-** | **-** | ***43.953*** | **-** | **-** | ***4.634*** | **-** | **-** | ***5.274*** | **-** | **-** | ***5.330*** | **-** | **-** | **-** | **-** | **-** | ***5.330*** |
| **Total** | | | **-** | **-** | **420.923** | **-** | **-** | **58.379** | **-** | **-** | **55.801** | **-** | **-** | **56.928** | **-** | **-** | **-** | **-** | **-** | **56.928** |

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

(†) indicates the presence of a P-5a

**Footnotes:**

(1) Cryogenics - Shore 1000/2000 Gallon Lox Tanks, Commercial item requires minimal testing, skip year is not needed.

(2) Platform Support - CVN Class Ship Crash Crane, Commercial item requires minimal testing, skip year is not needed

(3) Diesel & Electric Servicing Platform has accelerated testing planned, no skip year required. Utilizing DLA Heavy Equipment Program.

(4) The next-generation AECTS must support 13 specific generators across 7 aircraft configurations. The schedule for integrating the test programs for each Unit Under Test (UUT) part number is largely dependent on the availability of Government Furnished Equipment (GFE) for each aircraft platform. The highest-priority generator UUTs are the F/A-18 Generator Control Unit (GCU), the V-22 Constant Frequency Generator (CFG), and the V-22 Variable Frequency Generator (VFG). The sparse availability of these units has led to a longer integration and testing schedule for the AECTS Replacement program.

(5) Transportation Code in prior years was budgeted under Production Engineering Support. Transportation Cost are not included in Unit Price in prior years or within the Future Year Defense Plan (FYDP).

(6) Engineering Change Proposal (ECP) line created to address CSE emerging obsolescence issues identified requiring immediate support to maintain fleet capability.

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items: A/C COMMON SUPPORT EQUIPMENT |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1) Hardware** | | | | | | | | | | | | |
| 1.1) Weapons Control - Cralts Replacement (CAATS)(†) | | 2018 | BEHLMAN ELECTRONICS INC / HAUPPAUGE NY | C / FFP | NAWCAD LKE | Nov 2017 | Sep 2019 | 37 | 120,810.81 | Y | | |
| 1.1) Weapons Control - Cralts Replacement (CAATS)(†) | | 2019 | BEHLMAN ELECTRONICS INC / HAUPPAUGE NY | C / FFP | NAWCAD LKE | Dec 2018 | Apr 2020 | 26 | 128,125.00 | Y | | |
| 1.2) Vibration - Vibration Analyzer(†) | | 2018 | ACES SYSTEMS / KNOXVILLE TN | SS / FFP | NAWCAD LKE | Feb 2020 | Aug 2020 | 100 | 14,490.00 | Y | | |
| 1.2) Vibration - Vibration Analyzer(†) | | 2019 (7) | ACES SYSTEMS / KNOXVILLE TN | SS / FFP | NAWCAD LKE | Sep 2020 | Mar 2021 | 100 | 10,000.00 | Y | | |
| 1.5) COMM/NAV I/D - CRAFT Radio Test Set ECP(†) | | 2021 | TEL-INSTRUMENT / CARLSTADT, NJ | SS / FFP | NAWCAD LKE | Dec 2020 | Apr 2021 | 5 | 40,000.00 | Y | | |
| 1.6) S/W Loader - Next Generation Software Loader(†) | | 2019 | NSWC CRANE / IN | PO | NSWC CRANE | Oct 2018 | Nov 2019 | 40 | 30,975.00 | Y | | |
| 1.8) Cryogenics - Shore 1000/2000 Gallon Lox Tanks (1)(†) | | 2019 | Kelvin Inernational Inc. / Newport News, VA | C / FFP | NAWCAD LKE | Dec 2019 | Dec 2020 | 7 | 200,000.00 | Y | | May 2019 |
| 1.8) Cryogenics - Shore 1000/2000 Gallon Lox Tanks (1)(†) | | 2020 | Kelvin Inernational Inc. / Newport News, VA | C / FFP | NAWCAD LKE | Jun 2020 | Mar 2021 | 7 | 200,000.00 | Y | | |
| 1.8) Cryogenics - Shore 1000/2000 Gallon Lox Tanks (1)(†) | | 2021 | Kelvin Inernational Inc. / Newport News, VA | C / FFP | NAWCAD LKE | Nov 2020 | Jun 2021 | 20 | 200,000.00 | Y | | |
| 1.10) Hydraulics - Particle Counter(†) | | 2019 | TBD / TBD | C / FFP | NAWCAD LKE | Mar 2020 | Oct 2020 | 10 | 15,000.00 | Y | | Jun 2019 |
| 1.10) Hydraulics - Particle Counter(†) | | 2021 | TBD / TBD | C / FFP | NAWCAD LKE | Oct 2020 | Aug 2021 | 196 | 15,130.00 | Y | | |
| 1.12) Propulsion - V35 Dynamometer Replacement(†) | | 2020 | Concepts ETI Inc. / White River Junction, VT | SS / FFP | NAWCAD LKE | Mar 2020 | Feb 2021 | 1 | 917,000.00 | Y | | Oct 2019 |
| 1.13) Platform Support - Air Conditioner Ship Shore(†) | | 2016 | DRS TECHOLOGIES (1) / FLORENCE, KY | C / FFP | NAWCAD LKE | Jun 2017 | May 2020 | 55 | 131,680.85 | Y | | Dec 2009 |
| 1.13) Platform Support - Air Conditioner Ship Shore(†) | | 2017 | DRS TECHOLOGIES (1) / FLORENCE, KY | C / FFP | NAWCAD LKE | Jun 2017 | Dec 2020 | 74 | 107,135.14 | Y | | Dec 2009 |
| 1.13) Platform Support - Air Conditioner Ship Shore(†) | | 2018 (8) | HDT Global / FLORENCE, KY | SS / FFP | NAWCAD LKE | Mar 2020 | Nov 2021 | 20 | 260,000.00 | Y | | Dec 2009 |
| 1.14) Platform Support - SD2 Replacement(†) | | 2020 | Hydraulics International Inc. (1) / CHATSWORTH CA | C / FFP | NAWCAD LKE | Jun 2020 | May 2021 | 60 | 155,000.00 | Y | | Nov 2016 |
| 1.14) Platform Support - SD2 Replacement(†) | | 2021 | Hydraulics International Inc. (1) / CHATSWORTH CA | C / TBD | NAWCAD LKE | Dec 2020 | Nov 2021 | 48 | 155,000.00 | Y | | Nov 2016 |

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items: A/C COMMON SUPPORT EQUIPMENT |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.15) Platform Support - CVN Class Ship Crash Crane (2)(†) | | 2021 | Allied Systems Corp. / Sherwood, OR | C / FFP | NAWCAD LKE | Nov 2020 | Aug 2021 | 1 | 1,700K | Y | | Jul 2019 |
| 1.16) Platform Support - 1500lb Utility Maintenance Crane(†) | | 2020 | TBD / TBD | C / FFP | NAWCAD LKE | May 2020 | Feb 2021 | 5 | 65,000.00 | Y | | Mar 2020 |
| 1.17) Platform Support - Diesel & Electric Servicing Platform (3)(†) | | 2020 | TBD / TBD | C / FFP | NAWCAD LKE | Mar 2020 | Feb 2021 | 6 | 100,000.00 | Y | | |
| 1.17) Platform Support - Diesel & Electric Servicing Platform (3)(†) | | 2021 | TBD / TBD | C / FFP | NAWCAD LKE | Mar 2021 | Feb 2022 | 94 | 100,000.00 | Y | | |
| 1.18) Platform Support - L Class Ship Crash Crane(†) | | 2021 | Allied Systems Corp. / Sherwood, OR | C / FFP | NAWCAD LKE | Nov 2020 | Jul 2021 | 1 | 1,500K | Y | | Jul 2019 |
| 1.20) Electrical - Small Capacity MEPP (Shipboard)(†) | | 2019 | JBT CORP / OGDEN, UT | C / FFP | NAWCAD LKE | Dec 2018 | Sep 2019 | 35 | 169,250.00 | Y | | Nov 2013 |
| 1.21) Electrical - Medium Capacity MEPP(†) | | 2020 | TBD / TBD | C / FFP | NAWCAD LKE | Mar 2020 | Feb 2021 | 4 | 86,500.00 | Y | | Sep 2019 |
| 1.22) Electrical - AECTS Replacement/Modification (4)(†) | | 2019 | TBD / TBD | C / FFP | NAWCAD LKE | Feb 2020 | Aug 2021 | 5 | 950,000.00 | Y | | Jul 2019 |

(†) indicates the presence of a P-21

**Footnotes:**

(7) The Vibration Analyzer program change to implement an ECP to remove obsolete parts resulted in a contract method change to award a sole source contract to the Original Equipment Manufacturer, ACES Systems. The test set is proprietary to ACES Systems who is the only source capable of implementing the required changes.

(8) The OEM stopped production deliveries due to financial issues and submitted a Request for Economic Adjustment (REA) which significantly increased production costs of air conditioner units. Delivery restart and the award of the follow-on procurement are delayed pending adjudication and resolution of the OEM's REA.

| Exhibit P-21, Production Schedule: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** A/C COMMON SUPPORT EQUIPMENT |

| Items (Units in Each) | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2017 | | | | | | | | | | | | Calendar Year 2018 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2016 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1) Weapons Control - Cralts Replacement (CAATS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 155 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2018 | NAVY | 37 | 0 | 37 | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | 37 |
| | 1 | 2019 | NAVY | 26 | 0 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | 26 |
| 1.2) Vibration - Vibration Analyzer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2018 | NAVY | 100 | 0 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | 100 |
| | 2 | 2019 | NAVY | 100 | 0 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | 100 |
| 1.5) COMM/NAV I/D - CRAFT Radio Test Set ECP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2021 | NAVY | 5 | 0 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| 1.6) S/W Loader - Next Generation Software Loader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 649 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 2019 | NAVY | 40 | 0 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | 40 |
| 1.8) Cryogenics - Shore 1000/2000 Gallon Lox Tanks (1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 2019 | NAVY | 7 | 0 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| | 5 | 2020 | NAVY | 7 | 0 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| | 5 | 2021 | NAVY | 20 | 0 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| 1.10) Hydraulics - Particle Counter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 2019 | NAVY | 10 | 0 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| | 6 | 2021 | NAVY | 196 | 0 | 196 | | | | | | | | | | | | | | | | | | | | | | | | | 196 |
| 1.12) Propulsion - V35 Dynamometer Replacement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | 2020 | NAVY | 1 | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 1.13) Platform Support - Air Conditioner Ship Shore | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | 2016 | NAVY | 55 | 0 | 55 | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 55 |
| | 8 | 2017 | NAVY | 74 | 0 | 74 | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 74 |
| | 9 | 2018 | NAVY | 20 (9) | 0 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| 1.14) Platform Support - SD2 Replacement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 2020 | NAVY | 60 | 0 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | 60 |
| | 10 | 2021 | NAVY | 48 | 0 | 48 | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| 1.15) Platform Support - CVN Class Ship Crash Crane (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| Exhibit P-21, Production Schedule: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items: A/C COMMON SUPPORT EQUIPMENT |

| Items (Units in Each) | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2017 | | | | | | | | | | | | Calendar Year 2018 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2016 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| | 11 | 2021 | NAVY | 1 | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 1.16) Platform Support - 1500lb Utility Maintenance Crane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 2020 | NAVY | 5 | 0 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| 1.17) Platform Support - Diesel & Electric Servicing Platform (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 2020 | NAVY | 6 | 0 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| | 13 | 2021 | NAVY | 94 | 0 | 94 | | | | | | | | | | | | | | | | | | | | | | | | | 94 |
| 1.18) Platform Support - L Class Ship Crash Crane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 2021 | NAVY | 1 | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 1.20) Electrical - Small Capacity MEPP (Shipboard) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 2019 | NAVY | 35 (10) | 0 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | 35 |
| 1.21) Electrical - Medium Capacity MEPP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 2020 | NAVY | 4 | 0 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| 1.22) Electrical - AECTS Replacement/Modification (4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 2019 | NAVY | 5 | 0 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** PB 2021 Navy | **Date:** February 2020

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** A/C COMMON SUPPORT EQUIPMENT

| Items (Units in Each) | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2019 | | | | | | | | | | | | | | | Calendar Year 2020 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1) Weapons Control - Cralts Replacement (CAATS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 155 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2018 | NAVY | 37 | 0 | 37 | - | - | - | - | - | - | - | - | - | - | - | 5 | 7 | 7 | 7 | 7 | 4 | | | | | | | | 0 |
| | 1 | 2019 | NAVY | 26 | 0 | 26 | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 7 | 7 | 7 | 2 | | 0 |
| 1.2) Vibration - Vibration Analyzer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2018 | NAVY | 100 | 0 | 100 | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | 10 | 10 | 80 |
| | 2 | 2019 | NAVY | 100 | 0 | 100 | | | | | | | | | | | | | | | | | | | | | | | | A - | 100 |
| 1.5) COMM/NAV I/D - CRAFT Radio Test Set ECP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2021 | NAVY | 5 | 0 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| 1.6) S/W Loader - Next Generation Software Loader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 649 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 2019 | NAVY | 40 | 0 | 40 | A - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 10 | 10 | 10 | 6 | | | | | | | 0 |
| 1.8) Cryogenics - Shore 1000/2000 Gallon Lox Tanks (1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 2019 | NAVY | 7 | 0 | 7 | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | 7 |
| | 5 | 2020 | NAVY | 7 | 0 | 7 | | | | | | | | | | | | | | | | | | | | | A - | - | - | - | 7 |
| | 5 | 2021 | NAVY | 20 | 0 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| 1.10) Hydraulics - Particle Counter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 2019 | NAVY | 10 | 0 | 10 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 10 |
| | 6 | 2021 | NAVY | 196 | 0 | 196 | | | | | | | | | | | | | | | | | | | | | | | | | 196 |
| 1.12) Propulsion - V35 Dynamometer Replacement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | 2020 | NAVY | 1 | 0 | 1 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 1 |
| 1.13) Platform Support - Air Conditioner Ship Shore | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | 2016 | NAVY | 55 | 0 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | 7 | 7 | 7 | 7 | 20 |
| | 8 | 2017 | NAVY | 74 | 0 | 74 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 74 |
| | 9 | 2018 | NAVY | 20 (9) | 0 | 20 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 20 |
| 1.14) Platform Support - SD2 Replacement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 2020 | NAVY | 60 | 0 | 60 | | | | | | | | | | | | | | | | | | | | | A - | - | - | - | 60 |
| | 10 | 2021 | NAVY | 48 | 0 | 48 | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| 1.15) Platform Support - CVN Class Ship Crash Crane (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** PB 2021 Navy | **Date:** February 2020

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** A/C COMMON SUPPORT EQUIPMENT

| Items (Units in Each) | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | Calendar Year 2020 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| | 11 | 2021 | NAVY | 1 | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 1.16) Platform Support - 1500lb Utility Maintenance Crane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 2020 | NAVY | 5 | 0 | 5 | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | | 5 |
| 1.17) Platform Support - Diesel & Electric Servicing Platform (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 2020 | NAVY | 6 | 0 | 6 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 6 |
| | 13 | 2021 | NAVY | 94 | 0 | 94 | | | | | | | | | | | | | | | | | | | | | | | | | 94 |
| 1.18) Platform Support - L Class Ship Crash Crane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 2021 | NAVY | 1 | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 1.20) Electrical - Small Capacity MEPP (Shipboard) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 2019 | NAVY | 35 (10) | 0 | 35 | | | A - | - | - | - | - | - | - | - | - | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | | | | 0 |
| 1.21) Electrical - Medium Capacity MEPP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 2020 | NAVY | 4 | 0 | 4 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 4 |
| 1.22) Electrical - AECTS Replacement/Modification (4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 2019 | NAVY | 5 | 0 | 5 | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | 5 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** PB 2021 Navy | **Date:** February 2020

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** A/C COMMON SUPPORT EQUIPMENT

| Items (Units in Each) | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2021 | | | | | | | | | | | | | | | Calendar Year 2022 | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1) Weapons Control - Cralts Replacement (CAATS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 155 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2018 | NAVY | 37 | 37 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2019 | NAVY | 26 | 26 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.2) Vibration - Vibration Analyzer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2018 | NAVY | 100 | 20 | 80 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | | | | | 0 |
| | 2 | 2019 | NAVY | 100 | 0 | 100 | - | - | - | - | - | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | 0 |
| 1.5) COMM/NAV I/D - CRAFT Radio Test Set ECP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2021 | NAVY | 5 | 0 | 5 | | | A - | - | - | - | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | 0 |
| 1.6) S/W Loader - Next Generation Software Loader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 649 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 2019 | NAVY | 40 | 40 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.8) Cryogenics - Shore 1000/2000 Gallon Lox Tanks (1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 2019 | NAVY | 7 | 0 | 7 | - | - | 2 | 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | 0 |
| | 5 | 2020 | NAVY | 7 | 0 | 7 | - | - | - | - | - | 1 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | 0 |
| | 5 | 2021 | NAVY | 20 | 0 | 20 | | A - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | 0 |
| 1.10) Hydraulics - Particle Counter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 2019 | NAVY | 10 | 0 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 6 | 2021 | NAVY | 196 | 0 | 196 | A - | - | - | - | - | - | - | - | - | - | 11 | 15 | 15 | 15 | 15 | 20 | 20 | 20 | 20 | 15 | 15 | 15 | | | | 0 |
| 1.12) Propulsion - V35 Dynamometer Replacement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | 2020 | NAVY | 1 | 0 | 1 | - | - | - | - | 1 | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.13) Platform Support - Air Conditioner Ship Shore | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | 2016 | NAVY | 55 | 35 | 20 | 7 | 7 | 6 | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 8 | 2017 | NAVY | 74 | 0 | 74 | - | - | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | | | | | | | | | | | | 0 |
| | 9 | 2018 | NAVY | 20 (9) | 0 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 7 | 7 | 2 | | | | | | | | | 0 |
| 1.14) Platform Support - SD2 Replacement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 2020 | NAVY | 60 | 0 | 60 | - | - | - | - | - | - | - | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | | | | 0 |
| | 10 | 2021 | NAVY | 48 | 0 | 48 | | | A - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1.15) Platform Support - CVN Class Ship Crash Crane (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** PB 2021 Navy | **Date:** February 2020

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1

**P-1 Line Item Number / Title:** 0705 / Common Ground Equipment

**Aggregated Items:** A/C COMMON SUPPORT EQUIPMENT

| Items (Units in Each) | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2021 | | | | | | | | | | | | Calendar Year 2022 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| | 11 | 2021 | NAVY | 1 | 0 | 1 | | A - | - | - | - | - | - | - | - | - | 1 | | | | | | | | | | | | | | 0 |
| 1.16) Platform Support - 1500lb Utility Maintenance Crane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 2020 | NAVY | 5 | 0 | 5 | - | - | - | - | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | 0 |
| 1.17) Platform Support - Diesel & Electric Servicing Platform (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 2020 | NAVY | 6 | 0 | 6 | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | 0 |
| | 13 | 2021 | NAVY | 94 | 0 | 94 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | 7 | 7 | 7 | 7 | 7 | 10 | 10 | 10 | 29 |
| 1.18) Platform Support - L Class Ship Crash Crane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 2021 | NAVY | 1 | 0 | 1 | | A - | - | - | - | - | - | - | - | 1 | | | | | | | | | | | | | | | 0 |
| 1.20) Electrical - Small Capacity MEPP (Shipboard) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 2019 | NAVY | 35 (10) | 35 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.21) Electrical - Medium Capacity MEPP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 2020 | NAVY | 4 | 0 | 4 | - | - | - | - | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | 0 |
| 1.22) Electrical - AECTS Replacement/Modification (4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 2019 | NAVY | 5 | 0 | 5 | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | 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 | |

| Exhibit P-21, Production Schedule: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items: A/C COMMON SUPPORT EQUIPMENT |

| Items (Units in Each) | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2023 | | | | | | | | | | | | Calendar Year 2024 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1) Weapons Control - Cralts Replacement (CAATS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 155 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2018 | NAVY | 37 | 37 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2019 | NAVY | 26 | 26 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.2) Vibration - Vibration Analyzer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2018 | NAVY | 100 | 100 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 2 | 2019 | NAVY | 100 | 100 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.5) COMM/NAV I/D - CRAFT Radio Test Set ECP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2021 | NAVY | 5 | 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.6) S/W Loader - Next Generation Software Loader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 649 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 2019 | NAVY | 40 | 40 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.8) Cryogenics - Shore 1000/2000 Gallon Lox Tanks (1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 2019 | NAVY | 7 | 7 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 5 | 2020 | NAVY | 7 | 7 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 5 | 2021 | NAVY | 20 | 20 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.10) Hydraulics - Particle Counter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 2019 | NAVY | 10 | 10 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 6 | 2021 | NAVY | 196 | 196 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.12) Propulsion - V35 Dynamometer Replacement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | 2020 | NAVY | 1 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.13) Platform Support - Air Conditioner Ship Shore | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | 2016 | NAVY | 55 | 55 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 8 | 2017 | NAVY | 74 | 74 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 9 | 2018 | NAVY | 20 (9) | 20 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.14) Platform Support - SD2 Replacement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 2020 | NAVY | 60 | 60 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 10 | 2021 | NAVY | 48 | 44 | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.15) Platform Support - CVN Class Ship Crash Crane (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| Exhibit P-21, Production Schedule: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items: A/C COMMON SUPPORT EQUIPMENT |

| Items (Units in Each) | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2023 | | | | | | | | | | | | Calendar Year 2024 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| | 11 | 2021 | NAVY | 1 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.16) Platform Support - 1500lb Utility Maintenance Crane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 2020 | NAVY | 5 | 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.17) Platform Support - Diesel & Electric Servicing Platform (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 2020 | NAVY | 6 | 6 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 13 | 2021 | NAVY | 94 | 65 | 29 | 8 | 7 | 7 | 7 | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.18) Platform Support - L Class Ship Crash Crane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 2021 | NAVY | 1 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.20) Electrical - Small Capacity MEPP (Shipboard) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 2019 | NAVY | 35 (10) | 35 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.21) Electrical - Medium Capacity MEPP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 2020 | NAVY | 4 | 4 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.22) Electrical - AECTS Replacement/Modification (4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 2019 | NAVY | 5 | 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 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 | |

| Exhibit P-21, Production Schedule: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** A/C COMMON SUPPORT EQUIPMENT |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | 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 | BEHLMAN ELECTRONICS INC - HAUPPAUGE NY | 2 | 84 | 168 | 0 | 2 | 7 | 9 | 0 | 0 | 0 | 0 |
| 2 | ACES SYSTEMS - KNOXVILLE TN | 1 | 96 | 192 | 0 | 9 | 4 | 13 | 0 | 3 | 3 | 6 |
| 3 | TEL-INSTRUMENT - CARLSTADT, NJ | 1 | 12 | 16 | 0 | 3 | 8 | 11 | 0 | 7 | 4 | 11 |
| 4 | NSWC CRANE - IN | 2 | 116 | 120 | 0 | 4 | 6 | 10 | 0 | 0 | 0 | 0 |
| 5 | Kelvin Inernational Inc. - Newport News, VA | 1 | 5 | 20 | 0 | 5 | 9 | 14 | 1 | 5 | 6 | 11 |
| 6 | TBD - TBD | 1 | 10 | 196 | 0 | 5 | 7 | 12 | 1 | 5 | 10 | 15 |
| 7 | Concepts ETI Inc. - White River Junction, VT | 1 | 1 | 2 | 0 | 11 | 11 | 22 | 0 | 0 | 0 | 0 |
| 8 | DRS TECHOLOGIES (1) - FLORENCE, KY | 2 | 120 | 240 | 0 | 4 | 6 | 10 | 0 | 4 | 19 | 23 |
| 9 | HDT Global - FLORENCE, KY | | | TBD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | Hydraulics International Inc. (1) - CHATSWORTH CA | 1 | 5 | 60 | 0 | 1 | 14 | 15 | 0 | 3 | 11 | 14 |
| 11 | Allied Systems Corp. - Sherwood, OR | 10 | 12 | 16 | 0 | 2 | 9 | 11 | 0 | 2 | 9 | 11 |
| 12 | TBD - TBD | | 1 | 63 | 0 | 1 | 9 | 10 | 0 | 0 | 0 | 0 |
| 13 | TBD - TBD | | 1 | 94 | 0 | 1 | 11 | 12 | 0 | 0 | 0 | 0 |
| 14 | Allied Systems Corp. - Sherwood, OR | | 12 | 16 | 0 | 2 | 8 | 10 | 0 | 2 | 8 | 10 |
| 15 | JBT CORP - OGDEN, UT | 1 | 60 | 120 | 0 | 1 | 6 | 7 | 0 | 1 | 5 | 6 |
| 16 | TBD - TBD | 1 | 1 | 80 | 0 | 1 | 11 | 12 | 0 | 0 | 0 | 0 |
| 17 | TBD - TBD | 1 | 5 | 11 | 0 | 3 | 18 | 21 | 0 | 3 | 17 | 20 |

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

**Footnotes:**
(9) The OEM stopped production deliveries due to financial issues and submitted a Request for Economic Adjustment (REA) which significantly increased production costs of air conditioner units. Delivery restart and the award of the follow-on procurement are delayed pending adjudication and resolution of the OEM's REA.
(10) Delivery start was delayed due to a component availability issue.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items Title:** ICP/HEADQUARTERS MANAGED SUPPORT EQUIPMENT |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | |
| 1.1) CSE Deficits (11) | A | | - | - | 32.655 | - | - | 12.461 | - | - | 9.570 | - | - | 14.576 | - | - | - | - | - | 14.576 |
| 1.2) PSE Initial Outfitting (12) | A | | - | - | 58.581 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.3) CSE Replacement Equipment (13) | A | | - | - | 84.506 | - | - | 9.404 | - | - | 8.244 | - | - | 5.500 | - | - | - | - | - | 5.500 |
| ***Subtotal: 1) Hardware*** | | | **-** | **-** | ***175.742*** | **-** | **-** | ***21.865*** | **-** | **-** | ***17.814*** | **-** | **-** | ***20.076*** | **-** | **-** | **-** | **-** | **-** | ***20.076*** |
| **2) Production Engineering** | | | | | | | | | | | | | | | | | | | | |
| 2.1) CSE Deficits | A | | - | - | 1.870 | - | - | 1.088 | - | - | 1.094 | - | - | 1.252 | - | - | - | - | - | 1.252 |
| 2.2) PSE Initial Outfitting (14) | A | | - | - | 11.033 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.3) CSE Replacement Equipment | A | | - | - | 31.830 | - | - | 4.381 | - | - | 4.355 | - | - | 4.408 | - | - | - | - | - | 4.408 |
| ***Subtotal: 2) Production Engineering*** | | | **-** | **-** | ***44.733*** | **-** | **-** | ***5.469*** | **-** | **-** | ***5.449*** | **-** | **-** | ***5.660*** | **-** | **-** | **-** | **-** | **-** | ***5.660*** |
| **3) OCO** | | | | | | | | | | | | | | | | | | | | |
| 3.1) Individual Material Readiness List (IMRL) OCO | A | | - | - | 10.655 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 3) OCO*** | | | **-** | **-** | ***10.655*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Total** | | | **-** | **-** | **231.130** | **-** | **-** | **27.334** | **-** | **-** | **23.263** | **-** | **-** | **25.736** | **-** | **-** | **-** | **-** | **-** | **25.736** |

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

**Footnotes:**

(11) CSE Deficits: Includes procurement of additional CSE quantities to address inventory deficits to satisfy outfitting requirements or modification of existing CSE to extend service life.

(12) Beginning in FY2019, all PSE procurements are reflected in the Peculiar Support Equipment P-40a Exhibit.

(13) CSE Replacement Equipment: Includes replacement of CSE that is not logistically cost effective to continue use and requires replacement.

(14) Beginning in FY2019, all PSE procurements are reflected in the Peculiar Support Equipment P-40a Exhibit.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items Title:** PECULIAR SUPPORT EQUIPMENT (PSE) |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) AIRCRAFT T/M/S** | | | | | | | | | | | | | | | | | | | | |
| 1.1) E-2 C/D PSE [15] | A | | - | - | - | - | - | - | - | - | - | - | - | 10.944 | - | - | - | - | - | 10.944 |
| 1.2) H-60 R/S PSE | A | | - | - | - | - | - | - | - | - | - | - | - | 1.871 | - | - | - | - | - | 1.871 |
| 1.3) J-85 PSE | A | | - | - | - | - | - | - | - | - | - | - | - | 0.423 | - | - | - | - | - | 0.423 |
| 1.4) T-45 PSE | A | | - | - | - | - | - | 0.200 | - | - | 1.360 | - | - | 1.627 | - | - | - | - | - | 1.627 |
| 1.5) AV-8B PSE | A | | - | - | - | - | - | 3.771 | - | - | - | - | - | 3.100 | - | - | - | - | - | 3.100 |
| 1.6) E-6 PSE | A | | - | - | - | - | - | 0.135 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.7) H-53 PSE | A | | - | - | - | - | - | - | - | - | 0.240 | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 1) AIRCRAFT T/M/S*** | | | **-** | **-** | ***0.000*** | **-** | **-** | ***4.106*** | **-** | **-** | ***1.600*** | **-** | **-** | ***17.965*** | **-** | **-** | **-** | **-** | **-** | ***17.965*** |
| **2) FLEET READINESS CENTER (FRC)** | | | | | | | | | | | | | | | | | | | | |
| 2.1) Equipment Reconstitution | A | | - | - | - | - | - | - | - | - | - | - | - | 1.492 | - | - | - | - | - | 1.492 |
| 2.2) Adaptive Manufacturing USMC | A | | - | - | - | - | - | - | - | - | - | - | - | 1.990 | - | - | - | - | - | 1.990 |
| 2.3) Ready Based Aircraft (RBA) Investment | A | | - | - | - | - | - | 25.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 2) FLEET READINESS CENTER (FRC)*** | | | **-** | **-** | ***0.000*** | **-** | **-** | ***25.000*** | **-** | **-** | **-** | **-** | **-** | ***3.482*** | **-** | **-** | **-** | **-** | **-** | ***3.482*** |
| **Total** | | | **-** | **-** | **0.000** | **-** | **-** | **29.106** | **-** | **-** | **1.600** | **-** | **-** | **21.447** | **-** | **-** | **-** | **-** | **-** | **21.447** |

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

**Footnotes:**

[15] Procure sets of E2/C2 O and I level deficit SE needed to service the E-2C/C2 and E-2D aircraft for shore base and shipboard locations.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items Title:** CONSOLIDATED AUTOMATED SUPPORT SYSTEM |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | |
| 1.1) RT CASS | A | | 1,740K | 149 | 259.280 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.2) eCASS [16][†] | B | | 2,542K | 153 | 388.952 | 2,748K | 27 | 74.191 | 2,581K | 28 | 72.268 | 2,512K | 32 | 80.384 | - | - | - | 2,512K | 32 | 80.384 |
| ***Subtotal: 1) Hardware*** | | | **-** | **-** | ***648.232*** | **-** | **-** | ***74.191*** | **-** | **-** | ***72.268*** | **-** | **-** | ***80.384*** | **-** | **-** | **-** | **-** | **-** | ***80.384*** |
| **2) ECP** | | | | | | | | | | | | | | | | | | | | |
| 2.1) RT CASS | A | | - | - | 108.352 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.2) eCASS [17] | B | | - | - | 3.522 | - | - | 1.068 | - | - | 0.023 | - | - | 1.877 | - | - | - | - | - | 1.877 |
| ***Subtotal: 2) ECP*** | | | **-** | **-** | ***111.874*** | **-** | **-** | ***1.068*** | **-** | **-** | ***0.023*** | **-** | **-** | ***1.877*** | **-** | **-** | **-** | **-** | **-** | ***1.877*** |
| **3) ILS** | | | | | | | | | | | | | | | | | | | | |
| 3.1) RT CASS | A | | - | - | 44.920 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.2) eCASS | B | | - | - | 36.275 | - | - | 3.651 | - | - | 4.420 | - | - | 2.710 | - | - | - | - | - | 2.710 |
| ***Subtotal: 3) ILS*** | | | **-** | **-** | ***81.195*** | **-** | **-** | ***3.651*** | **-** | **-** | ***4.420*** | **-** | **-** | ***2.710*** | **-** | **-** | **-** | **-** | **-** | ***2.710*** |
| **4) Production Engineering** | | | | | | | | | | | | | | | | | | | | |
| 4.1) RT CASS | A | | - | - | 93.745 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.2) eCASS | B | | - | - | 31.189 | - | - | 3.874 | - | - | 3.256 | - | - | 3.125 | - | - | - | - | - | 3.125 |
| ***Subtotal: 4) Production Engineering*** | | | **-** | **-** | ***124.934*** | **-** | **-** | ***3.874*** | **-** | **-** | ***3.256*** | **-** | **-** | ***3.125*** | **-** | **-** | **-** | **-** | **-** | ***3.125*** |
| **5) Non FMP Installations** | | | | | | | | | | | | | | | | | | | | |
| 5.1) RT CASS | A | | - | - | 29.076 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5.2) eCASS | B | | - | - | 11.462 | - | - | 2.341 | - | - | 3.126 | - | - | 3.073 | - | - | - | - | - | 3.073 |
| ***Subtotal: 5) Non FMP Installations*** | | | **-** | **-** | ***40.538*** | **-** | **-** | ***2.341*** | **-** | **-** | ***3.126*** | **-** | **-** | ***3.073*** | **-** | **-** | **-** | **-** | **-** | ***3.073*** |
| **6) FMP Installations** | | | | | | | | | | | | | | | | | | | | |
| 6.1) RT CASS | A | | - | - | 31.275 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6.2) eCASS | B | | - | - | 3.362 | - | - | 1.240 | - | - | 2.861 | - | - | 2.445 | - | - | - | - | - | 2.445 |
| ***Subtotal: 6) FMP Installations*** | | | **-** | **-** | ***34.637*** | **-** | **-** | ***1.240*** | **-** | **-** | ***2.861*** | **-** | **-** | ***2.445*** | **-** | **-** | **-** | **-** | **-** | ***2.445*** |
| **Total** | | | **-** | **-** | **1,041.410** | **-** | **-** | **86.365** | **-** | **-** | **85.954** | **-** | **-** | **93.614** | **-** | **-** | **-** | **-** | **-** | **93.614** |

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

[†] indicates the presence of a P-5a

**Footnotes:**

[16] There are four (4) different configurations of eCASS with the RF configuration being the costliest.

[17] eCASS ECP increase is driven by increased production obsolescence ECPs and those ECPs associated with common eCASS solutions for emerging platforms, to now include F-35.

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items: CONSOLIDATED AUTOMATED SUPPORT SYSTEM |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1) Hardware** | | | | | | | | | | | | |
| 1.2) eCASS (16)(†) | | 2017 | Lockheed Martin (FRP 1) / Orlando, FL | SS / FFP | NAWCAD LKE | Feb 2017 | Dec 2018 | 28 | 2,618K | Y | | May 2016 |
| 1.2) eCASS (16)(†) | | 2018 | Lockheed Martin (FRP 2) / Orlando, FL | C / FFP | NAWCAD LKE | Jul 2018 | Jan 2020 | 26 | 2,483K | Y | | Apr 2017 |
| 1.2) eCASS (16)(†) | | 2019 | Lockheed Martin (FRP 2) / Orlando, FL | C / FFP | NAWCAD LKE | Dec 2018 | Jun 2020 | 27 | 2,748K | Y | | Apr 2017 |
| 1.2) eCASS (16)(†) | | 2020 | Lockheed Martin (FRP 2) / Orlando, FL | C / FFP | NAWCAD LKE | Dec 2019 | Jun 2021 | 28 | 2,581K | Y | | Apr 2019 |
| 1.2) eCASS (16)(†) | | 2021 | Lockheed Martin (FRP 2) / Orlando, FL | C / FFP | NAWCAD LKE | Dec 2020 | Jun 2022 | 32 | 2,512K | Y | | Apr 2020 |

(†) indicates the presence of a P-21

| **Exhibit P-21, Production Schedule:** PB 2021 Navy | | **Date:** February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** CONSOLIDATED AUTOMATED SUPPORT SYSTEM |

| Items (Units in Each) | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2017 | | | | | | | | | | | | Calendar Year 2018 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2016 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2) eCASS (16) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 2017 | NAVY | 28 | 0 | 28 | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 28 |
| | 19 | 2018 | NAVY | 26 | 0 | 26 | | | | | | | | | | | | | | | | | | | | | | A - | - | - | 26 |
| | 19 | 2019 | NAVY | 27 | 0 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | 27 |
| | 19 | 2020 | NAVY | 28 | 0 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | 28 |
| | 19 | 2021 | NAVY | 32 | 0 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | 32 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| Exhibit P-21, Production Schedule: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** CONSOLIDATED AUTOMATED SUPPORT SYSTEM |

| Items (Units in Each) | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | Calendar Year 2020 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2) eCASS (16) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 2017 | NAVY | 28 | 0 | 28 | - | - | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | | | | | | | | | | | 0 |
| | 19 | 2018 | NAVY | 26 | 0 | 26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 |
| | 19 | 2019 | NAVY | 27 | 0 | 27 | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 3 | 2 | 2 | | 18 |
| | 19 | 2020 | NAVY | 28 | 0 | 28 | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | | 28 |
| | 19 | 2021 | NAVY | 32 | 0 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | 32 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** PB 2021 Navy | | **Date:** February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** CONSOLIDATED AUTOMATED SUPPORT SYSTEM |

| Items (Units in Each) | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2021 | | | | | | | | | | | | Calendar Year 2022 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2) eCASS (16) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 2017 | NAVY | 28 | 28 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 19 | 2018 | NAVY | 26 | 26 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 19 | 2019 | NAVY | 27 | 9 | 18 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | 0 |
| | 19 | 2020 | NAVY | 28 | 0 | 28 | - | - | - | - | - | - | - | - | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | | | | | 0 |
| | 19 | 2021 | NAVY | 32 | 0 | 32 | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | 3 | 2 | 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 | |

| **Exhibit P-21, Production Schedule:** PB 2021 Navy | | **Date:** February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** CONSOLIDATED AUTOMATED SUPPORT SYSTEM |

| Items (Units in Each) | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2023 | | | | | | | | | | | | Calendar Year 2024 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2) eCASS (16) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 2017 | NAVY | 28 | 28 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 19 | 2018 | NAVY | 26 | 26 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 19 | 2019 | NAVY | 27 | 27 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 19 | 2020 | NAVY | 28 | 28 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 19 | 2021 | NAVY | 32 | 10 | 22 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | | | | | | | | | | | | | | | | | 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 | |

| **Exhibit P-21, Production Schedule:** PB 2021 Navy | | **Date:** February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N / 07 / 1 | **P-1 Line Item Number / Title:**<br>0705 / Common Ground Equipment | **Aggregated Items:**<br>CONSOLIDATED AUTOMATED SUPPORT SYSTEM |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | 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 (FRP 1) - Orlando, FL | 24 | 36 | 48 | 0 | 3 | 13 | 16 | 0 | 3 | 18 | 21 |
| 2 | Lockheed Martin (FRP 2) - Orlando, FL | 24 | 36 | 48 | 0 | 9 | 16 | 25 | 0 | 3 | 18 | 21 |

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

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items Title:** MOBILE MAINTENANCE FACILITIES |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) HARDWARE** | | | | | | | | | | | | | | | | | | | | |
| 1.1) Mobile Facility Vans(†) | A | | 99,218.10 | 431 | 42.763 | 61,200.00 | 55 | 3.366 | 61,500.00 | 55 | 3.383 | 61,856.00 | 55 | 3.402 | - | - | - | 61,856.00 | 55 | 3.402 |
| 1.2) Complex Decomplex Tool | A | | - | - | 0.702 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.3) Environmental Control Units(†) | A | | 7,321.71 | 631 | 4.620 | 5,125.00 | 40 | 0.205 | 5,175.00 | 40 | 0.207 | 3,784.00 | 42 | 0.159 | - | - | - | 3,784.00 | 42 | 0.159 |
| 1.4) Frequency Converters | A | | - | - | 0.520 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5) Static Mobile Frequency Converters | A | | 125,000.00 | 17 | 2.125 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.6) Tactical Quite Generator | A | | - | - | 28.473 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 1) HARDWARE*** | | | **-** | **-** | ***79.203*** | **-** | **-** | ***3.571*** | **-** | **-** | ***3.590*** | **-** | **-** | ***3.561*** | **-** | **-** | **-** | **-** | **-** | ***3.561*** |
| **2) ILS** | | | | | | | | | | | | | | | | | | | | |
| 2.1) Non-FMP Installations | A | | - | - | 21.170 | - | - | 1.284 | - | - | 1.317 | - | - | 1.354 | - | - | - | - | - | 1.354 |
| ***Subtotal: 2) ILS*** | | | **-** | **-** | ***21.170*** | **-** | **-** | ***1.284*** | **-** | **-** | ***1.317*** | **-** | **-** | ***1.354*** | **-** | **-** | **-** | **-** | **-** | ***1.354*** |
| **3) Production Engineering** | | | | | | | | | | | | | | | | | | | | |
| 3.1) Mobile Facility Vans | A | | - | - | 33.683 | - | - | 1.986 | - | - | 2.040 | - | - | 2.112 | - | - | - | - | - | 2.112 |
| ***Subtotal: 3) Production Engineering*** | | | **-** | **-** | ***33.683*** | **-** | **-** | ***1.986*** | **-** | **-** | ***2.040*** | **-** | **-** | ***2.112*** | **-** | **-** | **-** | **-** | **-** | ***2.112*** |
| **4) Miscellaneous Support** | | | | | | | | | | | | | | | | | | | | |
| 4.1) Publications | A | | - | - | 2.072 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 4) Miscellaneous Support*** | | | **-** | **-** | ***2.072*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Total** | | | **-** | **-** | **136.128** | **-** | **-** | **6.841** | **-** | **-** | **6.947** | **-** | **-** | **7.027** | **-** | **-** | **-** | **-** | **-** | **7.027** |

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

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items: MOBILE MAINTENANCE FACILITIES |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1) HARDWARE** | | | | | | | | | | | | |
| 1.1) Mobile Facility Vans | | 2019 | Gichner Shelter / Dallastown, PA | C / IDDQ | NAWCAD LKE | Oct 2018 | Apr 2019 | 55 | 61,200.00 | Y | | May 2012 |
| 1.1) Mobile Facility Vans | | 2020 | Gichner Shelter / Dallastown, PA | C / IDDQ | NAWCAD LKE | Oct 2019 | Apr 2020 | 55 | 61,500.00 | Y | | Nov 2018 |
| 1.1) Mobile Facility Vans | | 2021 | Gichner Shelter / Dallastown, PA | C / IDIQ | NAWCAD LKE | Oct 2020 | Apr 2021 | 55 | 61,856.00 | Y | | Nov 2018 |
| 1.3) Environmental Control Units | | 2019 | Env. Sys. / Jacksonville, FL | C / FFP | NAWCAD LKE | Oct 2018 | Mar 2019 | 40 | 5,125.00 | Y | | Nov 2011 |
| 1.3) Environmental Control Units | | 2020 | Env. Sys. / Jacksonville, FL | C / FFP | NAWCAD LKE | Oct 2019 | Mar 2020 | 40 | 5,175.00 | Y | | Jun 2017 |
| 1.3) Environmental Control Units | | 2021 | Env. Sys. / Jacksonville, FL | C / FFP | NAWCAD LKE | Oct 2020 | Mar 2021 | 42 | 3,784.00 | Y | | Jun 2017 |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: GENERAL SKILLS TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | |
| 1.1) A School - Catapult Launch Trainer | A | | - | - | 1.125 | - | - | 0.110 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.2) A School - AME Environmental Control Systems (ECS) Trainers | A | | - | - | 0.139 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.3) A School - AE Electronic Classroom (ECR) Upgrades | A | | - | - | 0.442 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.4) A School - ATO/ATI Electronic Classroom (ECR) Upgrades | A | | - | - | 1.224 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5) A School - ATO/ ATI/ AE Electronic Classroom Tech Refresh | A | | - | - | 1.103 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.6) A School - AE Curriculum/PC Simulation Upgrades | A | | - | - | 2.580 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.7) A School - Mobile Electric Power Plant (MEPP) Trainer | A | | - | - | 0.650 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.8) ACTS - Expeditionary Laptop Upgrades(†) | A | | - | - | 0.674 | 2,600.00 | 50 | 0.130 | 2,780.00 | 50 | 0.139 | 2,860.00 | 50 | 0.143 | - | - | - | 2,860.00 | 50 | 0.143 |
| 1.9) ACTS - MS Windows Server Standard Licenses | A | | - | - | 0.070 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.10) ACTS - MS SQL 2016 Standard Licenses | A | | - | - | 0.066 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.11) ACTS - Rustici Software Upgrade | A | | - | - | 0.030 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.12) ACTS - MS Window 10 Enterprise Licenses | A | | - | - | 0.039 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.13) ACTS - CONUS/ CVN Server Upgrades | A | | - | - | 0.045 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.14) ATC - 15G34 Tower Simulation System (TSS) Procurement | A | | - | - | 6.763 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.15) ATC - 15G30 Integrated Shipboard | A | | - | - | 0.207 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: GENERAL SKILLS TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| Information System (ISIS) HW Upgrades | | | | | | | | | | | | | | | | | | | | |
| 1.16) ATC - 15G30 Integrated Shipboard Information System (ISIS) SW Upgrades | A | | - | - | 0.163 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.17) ATC - Air Traffic Nav, Integ & Coordination Sys (ATNAVICS) Blk Upg (18) | A | | - | - | 0.683 | - | - | - | - | - | - | - | - | 4.973 | - | - | - | - | - | 4.973 |
| 1.18) ATC - 15G31 SATS Radar Labs 2&3 w/ VIDS Upgrades | A | | - | - | 3.568 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.19) ATC - STARS in ARATC 15G31 Upgrades (19) | A | | - | - | 1.210 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.20) ATC - 15G33A Improved Precision Approach Trainer (IPART) Upgrades | A | | - | - | 1.200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.21) ATC - 15G30 Joint Precision Approach & Landing System (JPALS) Upgrades | A | | - | - | - | - | - | 4.923 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.22) ATC - Courseware | A | | - | - | 2.137 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.24) ATC - 15G34 Block Upgrades | A | | - | - | - | - | - | - | - | - | 4.723 | - | - | - | - | - | - | - | - | - |
| 1.25) ATC - Tower Simulation System (TSS) 15G34 Voice Command Upgrade | A | | - | - | - | - | - | 0.030 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.28) ATC - Naval Air Traffic Trng Center (NATTC) RADAR Bay Upgrade (20) | A | | - | - | - | - | - | - | - | - | - | - | - | 3.000 | - | - | - | - | - | 3.000 |
| 1.29) ATC - Terminal Instrument Procedures (TERPS) Laptops | A | | - | - | 0.030 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.30) ATC - Naval Air Traffic Trng Center (NATTC) Static Lab Upgs | A | | - | - | 0.650 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: GENERAL SKILLS TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 1.32) NASTP - Normobaric Hypoxia Chambers(†) | A | | 525,250.00 | 8 | 4.202 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.33) NASTP - Normobaric Hypoxia Chamber Upgrades | A | | - | - | 0.472 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.34) NASTP - NHT Facility Upgrades(†) | A | | - | - | - | 653,000.00 | 1 | 0.653 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.35) NASTP - Multi-Station Spatial Disorientation Demonstrator (MSDD) Upgs | A | | - | - | 0.017 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.36) NASTP - Advanced Spatial Disorientation Curricula (ASD) | A | | - | - | 0.300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.37) NASTP - Reduced Oxygen Breathing Device (ROBD) Units | A | | - | - | 0.587 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.38) NASTP - Reduced Oxygen Breathing Device (ROBD) Transport Carts | A | | - | - | 0.022 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.39) NASTP - Reduced Oxygen Breathing Device (ROBD) Accessories | A | | - | - | 0.157 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.40) NASTP - On Demand Hypoxia Trainer (ODHT) (21)(†) | A | | - | - | - | 39,200.00 | 20 | 0.784 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.41) NASTP - Reduced Oxygen Breathing Device Win 10 Upgrade | A | | - | - | 0.138 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.42) NASTP - Dynamic Ejection Trainer Tech Refresh | A | | - | - | 0.412 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.43) NASTP - Virtual Reality Parachute Descent Trainer (VRPDT) Win7 Upgrades | A | | - | - | 0.883 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.44) NASTP - 9H1 Helo Hoist Upgrades | A | | - | - | - | - | - | - | - | - | 1.740 | - | - | 1.545 | - | - | - | - | - | 1.545 |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: GENERAL SKILLS TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 1.46) NASTP - 9F2A & 9F2C Parachute in Water Motor Replacement | A | | - | - | 0.637 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.47) NASTP - 9F9A Parachute Over Water Survival Trainer (POST) Modernization (22) | A | | - | - | - | - | - | - | - | - | 0.500 | - | - | 0.750 | - | - | - | - | - | 0.750 |
| 1.48) NASTP - Navy Imaging and Threat Eval Lab (NITE LAB) Trainer Upgrades | A | | - | - | 1.710 | - | - | 0.411 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.50) LSO - Training System Upgrades | A | | - | - | 2.862 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.51) Common ASW - Interactive Multi-Sensors Analysis Trainer (IMAT) Upgrades | A | | - | - | 3.715 | - | - | 0.575 | - | - | 0.412 | - | - | 0.423 | - | - | - | - | - | 0.423 |
| 1.52) Common ASW - Inter Multi-Sensors Analysis Train (IMAT) Upg Phase II | A | | - | - | 0.072 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.53) Common ASW - IMAT Java Applet Upgrade | A | | - | - | 0.185 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.54) Common ASW - Tactical Acoustic Intelligence (ACINT) Product Upgrades | A | | - | - | 0.368 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 1) Hardware*** | | | **-** | **-** | ***41.537*** | **-** | **-** | ***7.616*** | **-** | **-** | ***7.514*** | **-** | **-** | ***10.834*** | **-** | **-** | **-** | **-** | **-** | ***10.834*** |
| **2) Production Engineering** (23) | | | | | | | | | | | | | | | | | | | | |
| 2.1) A School | A | | - | - | 0.720 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.2) ACTS | A | | - | - | 0.064 | - | - | 0.003 | - | - | 0.003 | - | - | 0.003 | - | - | - | - | - | 0.003 |
| 2.3) ATC | A | | - | - | 2.721 | - | - | 0.517 | - | - | 0.391 | - | - | 0.466 | - | - | - | - | - | 0.466 |
| 2.4) NASTP | A | | - | - | 8.355 | - | - | 0.817 | - | - | 0.555 | - | - | 0.585 | - | - | - | - | - | 0.585 |
| 2.5) LSO | A | | - | - | 1.406 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.6) Common ASW | A | | - | - | 2.131 | - | - | 0.092 | - | - | 0.094 | - | - | 0.097 | - | - | - | - | - | 0.097 |
| ***Subtotal: 2) Production Engineering*** | | | **-** | **-** | ***15.397*** | **-** | **-** | ***1.429*** | **-** | **-** | ***1.043*** | **-** | **-** | ***1.151*** | **-** | **-** | **-** | **-** | **-** | ***1.151*** |
| **3) Production Support** | | | | | | | | | | | | | | | | | | | | |
| 3.1) A School | A | | - | - | 0.448 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.2) ACTS | A | | - | - | 0.806 | - | - | 0.034 | - | - | 0.034 | - | - | 0.034 | - | - | - | - | - | 0.034 |
| 3.3) ATC | A | | - | - | 2.564 | - | - | 0.421 | - | - | 0.718 | - | - | 0.846 | - | - | - | - | - | 0.846 |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: GENERAL SKILLS TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 3.4) NASTP | A | | - | - | 2.371 | - | - | 0.554 | - | - | 0.560 | - | - | 0.628 | - | - | - | - | - | 0.628 |
| 3.5) LSO | A | | - | - | 0.608 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.6) Common ASW | A | | - | - | 0.333 | - | - | 0.205 | - | - | 0.172 | - | - | 0.175 | - | - | - | - | - | 0.175 |
| ***Subtotal: 3) Production Support*** | | | **-** | **-** | ***7.130*** | **-** | **-** | ***1.214*** | **-** | **-** | ***1.484*** | **-** | **-** | ***1.683*** | **-** | **-** | **-** | **-** | **-** | ***1.683*** |
| **4) Acceptance Testing** | | | | | | | | | | | | | | | | | | | | |
| 4.1) A School | A | | - | - | 0.090 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.2) ACTS | A | | - | - | 0.040 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.3) ATC | A | | - | - | 0.222 | - | - | 0.057 | - | - | 0.065 | - | - | 0.075 | - | - | - | - | - | 0.075 |
| 4.4) NASTP | A | | - | - | 0.379 | - | - | 0.143 | - | - | 0.168 | - | - | 0.170 | - | - | - | - | - | 0.170 |
| 4.5) LSO | A | | - | - | 0.034 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.6) Common ASW | A | | - | - | 0.103 | - | - | 0.001 | - | - | 0.001 | - | - | 0.001 | - | - | - | - | - | 0.001 |
| ***Subtotal: 4) Acceptance Testing*** | | | **-** | **-** | ***0.868*** | **-** | **-** | ***0.201*** | **-** | **-** | ***0.234*** | **-** | **-** | ***0.246*** | **-** | **-** | **-** | **-** | **-** | ***0.246*** |
| **Total** | | | **-** | **-** | **64.932** | **-** | **-** | **10.460** | **-** | **-** | **10.275** | **-** | **-** | **13.914** | **-** | **-** | **-** | **-** | **-** | **13.914** |

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

(†) indicates the presence of a P-5a

**Footnotes:**

(18) Provides for the upgrade of the USMC ATNAVICS simulator which provides deployable realistic training and proficiency to USMC Field Air Traffic Control Units.

(19) ATC - Standard Terminal Automation Replacement System (STARS) in Advanced Radar Air Traffic Control (ARATC) Upgrades

(20) The 15G31 Shore based RADAR Bay Upgrade will provide realistic shore based RADAR operations training to entry level Air Traffic Controllers at Naval Air Technical Training Center Pensacola Florida.

(21) NASTP - Reduced Oxygen Breathing Device (Molecular Sieve) to On Demand Hypoxia Trainer (ODHT). SBIR effort. Final design package delay from Small Business contractor.

(22) NASTP - 9F9A Parachute Over Water Survival Trainer (POST)to NASTP - 9F9A Parachute Over Water Survival Trainer (POST) Modernization

(23) Production Engineering includes costs previously broken out under a separate line as Integrated Logistics Support. Consolidation increases Program Office efficiency and better aligns program technical support costs in accordance with DoD Financial Management Regulations (FMR) guidance.

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items: GENERAL SKILLS TRAINING |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1) Hardware** | | | | | | | | | | | | |
| 1.8) ACTS - Expeditionary Laptop Upgrades | | 2019 | New Technology Solutions / Fremont, CA | C / FFP | NAWCTSD | Mar 2019 | Jul 2019 | 50 | 2,600.00 | Y | | Jan 2019 |
| 1.8) ACTS - Expeditionary Laptop Upgrades | | 2020 | New Technology Solutions / Fremont, CA | C / FFP | NAWCTSD | Mar 2020 | Jul 2020 | 50 | 2,780.00 | Y | | Jan 2020 |
| 1.8) ACTS - Expeditionary Laptop Upgrades | | 2021 | New Technology Solutions / Fremont, CA | C / FFP | NAWCTSD | Mar 2021 | Jul 2021 | 50 | 2,860.00 | Y | | Jan 2021 |
| 1.32) NASTP - Normobaric Hypoxia Chambers | | 2015 | NAWCTSD / Orlando, FL | PO | NAWCTSD | Dec 2016 | Oct 2019 | 5 | 478,833.33 | Y | | |
| 1.32) NASTP - Normobaric Hypoxia Chambers | | 2016 | NAWCTSD / Orlando, FL | PO | NAWCTSD | Dec 2016 | Jun 2020 | 1 | 564,000.00 | Y | | |
| 1.32) NASTP - Normobaric Hypoxia Chambers | | 2018 | NAWCTSD* / Orlando, FL | PO | NAWCTSD | Dec 2018 | Jun 2020 | 2 | 382,500.00 | Y | | |
| 1.34) NASTP - NHT Facility Upgrades | | 2019 | Various / Various | C / FFP | NAWCTSD | Sep 2019 | Dec 2019 | 1 | 653,000.00 | Y | | Feb 2019 |
| 1.40) NASTP - On Demand Hypoxia Trainer (ODHT) (21) | | 2019 | Lynntech Inc. / College Station, TX | SS / FFP | NAWCTSD | May 2020 | Nov 2021 | 20 | 39,200.00 | N | Oct 2019 | Oct 2018 |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items Title:** TOPSCENE |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) Mission Rehearsal Pre-Planned (Topscene)** | | | | | | | | | | | | | | | | | | | | |
| 1.1) Product Improvement | A | | 1,250K | 6 | 7.503 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 1) Mission Rehearsal Pre-Planned (Topscene)*** | | | **-** | **-** | ***7.503*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **2) ILS** | | | | | | | | | | | | | | | | | | | | |
| 2.1) Topscene | A | | - | - | 1.275 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 2) ILS*** | | | **-** | **-** | ***1.275*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **3) Acceptance Testing** | | | | | | | | | | | | | | | | | | | | |
| 3.1) Topscene | A | | - | - | 1.845 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 3) Acceptance Testing*** | | | **-** | **-** | ***1.845*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Total** | | | **-** | **-** | **10.623** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

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

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: OTHER FLIGHT TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | |
| 1.1) CNATRA - T-45 Operational Flight Trainer (OFT) Upgrades | A | | - | - | 17.588 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.2) CNATRA - TH-57 Projectors | A | | - | - | 1.145 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.3) CNATRA - TH-57 Instructor Operator Station Upgrade | A | | - | - | 0.007 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.4) CNATRA - TH-57 Virtual Reality Part Task Trainer | A | | - | - | 0.455 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5) CNATRA - T-6 Win 10 Upgrades | A | | - | - | 12.330 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.6) CNATRA - T-6 IOS Joystick & Throttle Mod Upgrades | A | | - | - | 0.011 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.7) CNATRA - T-6 Part Task Trainer | A | | 21,200.00 | 10 | 0.212 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.8) CNATRA - T-6 Actuator | A | | - | - | 0.600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.9) CNATRA- T-45 Win 10 Image Gen Sys Servers Upgrades | A | | - | - | 2.533 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.10) CNATRA - T-45 Win 10 Instructor Operator Station Computer Upgrades | A | | - | - | 0.441 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.11) CNATRA - T-45 Win 10 Aural Cues Computers Upgrades | A | | - | - | 0.123 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.12) CNATRA - T-45 UMFO - Win 10 ViTech Driver | A | | - | - | 0.028 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.13) CNATRA - T-45 Win 10 Virtual IO SW Upgrades | A | | - | - | 0.146 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.14) E-6 - Interactive Avionic Trainer Rehost | A | | - | - | 5.368 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.15) E-6 - Interactive Avionic Trg Rehost/400 HZ Upgrade | A | | - | - | 0.032 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: OTHER FLIGHT TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 1.16) E-6 - OFT Tech Modernization | A | | - | - | 3.752 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.17) E-6 - Mission Avionics Sys Trg (MAST) Cyber Security Upg | A | | - | - | 0.200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.18) E-6 - Windows 7 Upgrades | A | | - | - | 0.939 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.19) E-6 - Windows 10 Upgrade | A | | - | - | 0.126 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.20) EP-3 - 10H1 Device Upgrades | A | | - | - | 5.463 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.21) FA-18 - Equipment Modernization | A | | - | - | 22.777 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.22) FA-18 - Equipment Modernization Phase I | A | | - | - | 3.919 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.23) FA-18 - Equipment Modernization Phase II | A | | - | - | 3.978 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.24) P-3C - 2F179A TORT Windows 7 Upgrades | A | | - | - | 0.806 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.25) P-3C - 14B59 FDT Windows 7 Upgrades | A | | - | - | 0.300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.26) P-3C - 2F87 OFT Tech Refresh | A | | - | - | 0.924 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.27) P-3C - 2F179A TORT Tech Refresh | A | | - | - | 1.009 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.28) UMFO Training - MCS Block 1B | A | | - | - | 3.863 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.29) USMC Fed Sim - Aviation Dist Virtual Trng Environ (ADVTE) Modernization (24) | A | | - | - | 5.073 | - | - | - | - | - | 14.119 | - | - | 20.500 | - | - | - | - | - | 20.500 |
| 1.32) USMC Fed Sim - Marine Common Aircrew Trainer (MCAT) Upgrades | A | | - | - | 0.950 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.33) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT)(†) | A | | 10,498K | 7 | 73.487 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: OTHER FLIGHT TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 1.34) USMC Fed Sim - MCATS KG-175F Modernization | A | | - | - | 0.357 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.35) USMC Fed Sim - MCAT GFE UH-1Y Weapons Mounts | A | | - | - | 1.739 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.36) USMC Fed Sim - MCAT GFE CH-53 Weapons Mounts | A | | - | - | 1.306 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.37) USMC Fed Sim - MCAT GFE MV-22 Weapons Mounts | A | | - | - | 0.554 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.38) USMC Fed Sim - MCAT P2 Upgrades | A | | - | - | 0.003 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.39) USMC Fed Sim - CH-53E CFTD Modernization | A | | - | - | 6.631 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.41) USMC Fed Sim - CH-53E Aircrew Procedure Trnr (APT) Modernization | A | | - | - | 8.616 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.42) USMC Fed Sim - CH-53E OCONUS Aircrew Procedures Trainer (APT) | A | | - | - | 7.806 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.43) USMC Fed Sim - CH-53E Weapon System Trainer (WST) Modernization | A | | - | - | 10.711 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.44) USMC Fed Sim - KC-130J Weapons System Trainer (WST) Modernization | A | | - | - | 6.955 | - | - | 15.491 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.45) USMC Fed Sim - KC-130J OCONUS Wpn Sys Trainer (WST) Modernization (25) | A | | - | - | 16.948 | - | - | - | - | - | - | - | - | 13.109 | - | - | - | - | - | 13.109 |
| 1.48) USMC Fed Sim - AH-1Z Flight Training Device (FTD) Modernization (26) | A | | - | - | 4.033 | - | - | - | - | - | - | - | - | 7.656 | - | - | - | - | - | 7.656 |
| 1.49) USMC Fed Sim - AH-1Z Full Flight Simulator (FFS) Modernization | A | | - | - | 11.670 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.50) USMC Fed Sim - UH-1Y Flight | A | | - | - | 11.361 | - | - | - | - | - | - | - | - | 7.000 | - | - | - | - | - | 7.000 |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: OTHER FLIGHT TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| Training Device (FTD) Modernization (27) | | | | | | | | | | | | | | | | | | | | |
| 1.51) USMC Fed Sim - UH-1Y Full Flight Simulator (FFS) Modernization | A | | - | - | 14.775 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.52) USMC Fed Sim - MV-22 CFTD Modernization | A | | - | - | 15.457 | - | - | 29.772 | - | - | 25.190 | - | - | 14.643 | - | - | - | - | - | 14.643 |
| 1.53) USMC Fed Sim - FA-18 C/D Tact Operational Flt Trnr (TOFT) Modernization | A | | - | - | 23.008 | - | - | - | - | - | 27.804 | - | - | - | - | - | - | - | - | - |
| 1.54) USMC Fed Sim - FA-18 C/D OCONUS TOFT Modernization | A | | - | - | - | - | - | - | - | - | 7.958 | - | - | - | - | - | - | - | - | - |
| 1.55) USMC Fed Sim - FA-18 C/D SimuStrike Trainer(†) | A | | 1,242K | 5 | 6.210 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.56) USMC Fed Sim - AV-8B Weapons Systems Trainer (WST) Modernization | A | | - | - | 3.852 | - | - | 23.952 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.57) USMC Fed Sim - AV-8B Maintenance Trainer (MT) Modernization (28) | A | | - | - | 3.685 | - | - | - | - | - | - | - | - | 5.650 | - | - | - | - | - | 5.650 |
| 1.58) USMC Fed Sim - AV-8B Deployable Mission Rehearsal Trainer (DMRT)(†) | A | | 1,051K | 8 | 8.409 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.59) USMC Fed Sim - AV-8B DMRT Modernization | A | | - | - | 0.105 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.60) USMC Fed Sim - AV-8B - Scan Converter Upgrade | A | | - | - | 0.006 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.61) USMC Fed Sim - VH-3D Aircrew Procedures Trainer (APT) Modernization | A | | - | - | 0.937 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.62) USMC Fed Sim - VH-3D APT Visual Database Upgrades | A | | - | - | 0.995 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.63) USMC Fed Sim - VH-60N CFTD Visual Database Upgrade | A | | - | - | 0.100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: OTHER FLIGHT TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 1.65) USMC Fed Sim - USMC Training Continuum Integration Upgrades | A | | - | - | 0.426 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.66) USMC Fed Sim - CH-53E TCI Basic Training Courseware Upgrades | A | | - | - | 0.279 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.67) E-2/C-2 - C2 Operational Flight Trainer (OFT) Tech Upgrades | A | | - | - | 13.586 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.68) E-2/C-2 - C2 OFT ASTi Digital Aural Comms Sys Upgrades | A | | - | - | 0.161 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.69) E-2/C-2 - Enhanced Distributed Readiness Trainer (EDRT) Tech Upgrades | A | | - | - | 0.545 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.70) E-2/C-2 - E-2 Cooperative Engagement Capibility (CEC) Upgrades | A | | - | - | 0.320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.71) E-2/C-2 - E-2 Win 10 Upgrade | A | | - | - | 0.744 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.72) MH-53 - AMCM Stream & Recovery Mod (ASRM) Upgrades | A | | - | - | 2.193 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.73) MH-53 - 2H165 Config and Cargo Load Procedures Trainer (CCLPT) Upgrades | A | | - | - | 1.033 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.74) MH-53 - CCLPT/ Operational Flight Trainer (OFT)/ASRM Upgrades | A | | - | - | 2.090 | - | - | 0.221 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.75) MH-53 - 2H162 Enhanced Aircrew External Trainer Upgrades | A | | - | - | 0.662 | - | - | 0.350 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.76) NASMP - Navy Continuous Training Environment (NCTE) Nodes (29)(†) | A | | - | - | 1.281 | - | - | - | 400,000.00 | 2 | 0.800 | 400,000.00 | 2 | 0.800 | - | - | - | 400,000.00 | 2 | 0.800 |

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| | | | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 1.77) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) (30)(†) | A | | 10,507K | 3 | 31.522 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.78) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) Upgrades | A | | - | - | 0.064 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.79) NASMP - MH-60S Technology Refresh Upgrades | A | | - | - | 44.222 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.80) NASMP - MH-60R Technology Refresh Upgrades | A | | - | - | 22.383 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.81) NASMP - MH-60R/S TRPS Telestra Upgrade | A | | - | - | 0.065 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.82) NASMP - MH-60R/S OMIA-ATS Upgrade (31) | A | | - | - | 0.650 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.83) NASMP - MH-60R Naval Aircrew Training Systems (NATS) (32)(†) | A | | 8,461K | 4 | 33.844 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.84) NASMP - MH-60R Naval Aircrew Training Systems (NATS) Upgrades | A | | - | - | 0.039 | - | - | 0.009 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.85) NASMP - MH-60 AVET/NATS Image Generator (IG) Modernization | A | | - | - | 0.100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.86) NASMP - MH-60 Threat Attributes Production (JSAF) | A | | - | - | 0.798 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.87) NASMP - MH-60 WIN 10 Upgrade | A | | - | - | 0.396 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.88) NASMP - MH-60S Tech Refresh Aircrew Trg and Optimize Prog (ATOP) Upgs | A | | - | - | 4.680 | - | - | - | - | - | 2.433 | - | - | - | - | - | - | - | - | - |
| 1.89) NASMP - MH-60R/S TOFT Technology and | A | | - | - | - | - | - | - | - | - | - | - | - | 4.265 | - | - | - | - | - | 4.265 |

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|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: OTHER FLIGHT TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| Simulation Upgrades (33) | | | | | | | | | | | | | | | | | | | | |
| 1.90) NASMP - FA/ EA-18 - System Fidelity Upgrades (TECR) | A | | - | - | 15.434 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.91) NASMP - FA/EA-18 Next Generation Threat System (NGTS) V3.2 Upgrades | A | | - | - | 6.250 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.92) NASMP - FA/ EA-18 NGTS v3.2 Upgrades | A | | - | - | 14.760 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.94) NASMP - FA/EA-18 Visual Display and Database Upgrades (34) | A | | - | - | 15.036 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.95) NASMP - FA/ EA-18 COMMS Upgrades | A | | - | - | 5.180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.96) NASMP - FA/ EA-18 Weps Fidelity Upgrades | A | | - | - | 6.441 | - | - | - | - | - | 16.200 | - | - | - | - | - | - | - | - | - |
| 1.97) NASMP - FA/ EA-18 Seat Upgrades | A | | - | - | 15.964 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.98) NASMP - FA/ EA-18 Blue Forces, Threat, Terrain VDB Upgrades | A | | - | - | 24.087 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.99) NASMP - FA/ EA-18 Airborne Electronic Attack (AEA) Model Fidelity Upgs | A | | - | - | 8.239 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.100) NASMP - FA/ EA-18 APG-79 AESA Fidelity Upgrades | A | | - | - | 9.950 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.101) NASMP - FA/EA-18 APG-73 Fidelity Upgrades | A | | - | - | 3.477 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.102) NASMP - FA/ EA-18 Electro-Optical/ Infra-Red (EO/IR) Upgrades | A | | - | - | 2.700 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.103) NASMP - FA/ EA-18 SAN Disk Upgrades | A | | - | - | 13.103 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: OTHER FLIGHT TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 1.104) NASMP - FA/ EA-18 Cockpit HW Upgrades | A | | - | - | - | - | - | 7.584 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.105) NASMP - FA/EA-18 NASMP 1.4 / Fleet Synthetic Training (FST) Upgrades | A | | - | - | 6.806 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.106) NASMP - FA/ EA-18 Malfunctions Fidelity Upgrades | A | | - | - | 8.238 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.107) NASMP - FA/ EA-18 Aural Cueing HW Upgrades | A | | - | - | 8.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.108) NASMP - FA/ EA-18 MIDS Fidelity Upgrades | A | | - | - | 5.851 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.109) NASMP - FA/ EA-18 Windows 7 Upgrades | A | | - | - | 1.499 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.110) NASMP - FA/ EA-18 - TOFT Mission Upgrades | A | | - | - | 1.543 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.111) NASMP - FA/EA-18 - TOFT Software Gold Disk Upgrades | A | | - | - | 4.100 | - | - | 1.723 | - | - | 1.771 | - | - | 1.930 | - | - | - | - | - | 1.930 |
| 1.112) NASMP - Common Acoustic Simulation Environment (CASE) Upgrades | A | | - | - | 12.985 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.113) NASMP - CASE MH-60R TOFT #4 Integration | A | | - | - | 0.886 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.114) NASMP - CASE FI - Integration in TOFTS 1-3, 5-7, 12-14 Phase I | A | | - | - | - | - | - | 0.247 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.115) NASMP - CASE FI - Integration in TOFTS 1-3, 5-7, 12-14 Phase II | A | | - | - | - | - | - | 0.196 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.116) NASMP - CASE MH-60R TOFT Integration Manned Flight Simulator (MFS) | A | | - | - | 0.821 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.117) NASMP - CASE Data Set | A | | - | - | 0.700 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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|---|---|---|
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| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 1.118) NASMP - Common Simulation Models Upgrades (35) | A | | - | - | - | - | - | - | - | - | 8.000 | - | - | 12.020 | - | - | - | - | - | 12.020 |
| 1.119) NASMP - MH-60R/S NGTS Integration | A | | - | - | 6.200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.120) NASMP - Cross Domain Solution (CDS)/ Network Upgrades (36) | A | | - | - | - | - | - | 1.000 | - | - | 1.500 | - | - | 3.263 | - | - | - | - | - | 3.263 |
| 1.121) NASMP - E-2D OFT/Aircrew Proc Trn (APT)/Tact Trn (TT) Modern (37) | A | | - | - | - | - | - | - | - | - | - | - | - | 11.778 | - | - | - | - | - | 11.778 |
| 1.122) NASMP - E-2D Hawkeye Integrated Training System (HITS) WIN10 Upgrades | A | | - | - | - | - | - | - | - | - | 24.709 | - | - | - | - | - | - | - | - | - |
| 1.124) NASMP - Host-Based Security System (HBSS) Upgrades | A | | - | - | 1.108 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.126) NASMP - E-6B OFT/IAT Trainer Modernization (38) | A | | - | - | 1.130 | - | - | - | - | - | 2.064 | - | - | - | - | - | - | - | - | - |
| 1.128) NASMP - Navy Electronic Warfare Tactical Training Database (NEWTT DB) | A | | - | - | 0.600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.129) NASMP - Navy Aviation Distributed Training Center (NADTC) 1.0 | A | | - | - | 1.950 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.130) NASMP - Navy Aviation Distributed Training Center (NADTC) 2.0 | A | | - | - | 3.819 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.131) NASMP - NADTC & Distributed Mission Training (DMT) Enablers Upgrades (39) | A | | - | - | - | - | - | 2.600 | - | - | 9.617 | - | - | 15.774 | - | - | - | - | - | 15.774 |
| 1.132) NASMP - Carrier Air Wing (CVW) DMT Upgrades (40) | A | | - | - | - | - | - | - | - | - | - | - | - | 76.398 | - | - | - | - | - | 76.398 |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
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| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 1.133) NASMP - NADTC Secure Video Teleconference Brief/ Debrief Upgrade | A | | - | - | 0.510 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.134) NASMP - FA-18 IOS-BDS-MOC Stores Management Fidelity Upgrades (41) | A | | - | - | 5.235 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.135) NASMP - FA-18 IOS-BDS-MOC Fidelity Upgrades (42) | A | | - | - | - | - | - | - | - | - | 11.953 | - | - | - | - | - | - | - | - | - |
| 1.136) NASMP - FA-18 IOS-BDS-MOC Targets/Maps Fidelity Upgrades | A | | - | - | - | - | - | 9.271 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.138) NASMP - FA/ EA-18 Windows 10 Upgrades | A | | - | - | - | - | - | 9.700 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.139) NASMP - FA-18 - Low Cost Trainer (LCT) (43)(†) | A | | - | - | - | - | - | - | - | - | - | 1,235K | 17 | 21.000 | - | - | - | 1,235K | 17 | 21.000 |
| 1.140) NASMP - FA-18 Artemis Computer Upgrades | A | | - | - | 1.800 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.141) NASMP - P-8A Information Assurance Upgrades (44) | A | | - | - | - | - | - | - | - | - | 5.449 | - | - | 6.199 | - | - | - | - | - | 6.199 |
| 1.144) NASMP - CNATRA - T-45 Kingsville 2F138E OFT Upgrades | A | | - | - | - | - | - | - | - | - | 7.000 | - | - | - | - | - | - | - | - | - |
| 1.145) NASMP - CNATRA - T-45 OFT Upgrades | A | | - | - | - | - | - | - | - | - | - | - | - | 2.100 | - | - | - | - | - | 2.100 |
| 1.146) NASMP - CNATRA - T-44 Visual Upgrades (45) | A | | - | - | - | - | - | - | - | - | 3.000 | - | - | - | - | - | - | - | - | - |
| 1.147) NASMP - CNATRA - T-45 Pilot Part Task Trainer Upgrades | A | | - | - | - | - | - | - | - | - | - | - | - | 1.850 | - | - | - | - | - | 1.850 |
| 1.149) NASMP - CNATRA - T-6A/ B Aircrew Training Device (ATD) Upgrades | A | | - | - | - | - | - | - | - | - | 1.000 | - | - | - | - | - | - | - | - | - |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
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| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 1.150) NASMP - CNATRA - T-45 Virtual Mission Training System (VMTS) Upgrades (46) | A | | - | - | - | - | - | - | - | - | 1.000 | - | - | 17.800 | - | - | - | - | - | 17.800 |
| 1.151) NASMP CNATRA Courseware Flash Conversion (47) | A | | - | - | - | - | - | - | - | - | 0.731 | - | - | - | - | - | - | - | - | - |
| 1.152) LVC - Next Generation Threat System Upgrades | A | | - | - | 2.348 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.153) LVC - Integrated Training Facility (ITF) (48) | A | | - | - | 23.314 | - | - | 15.704 | - | - | 16.720 | - | - | - | - | - | - | - | - | - |
| 1.154) NAWDC - Air Defense Strike Group Facility (ADSGF) Sim Arch Upgrades (49) | A | | - | - | - | - | - | - | - | - | - | - | - | 6.900 | - | - | - | - | - | 6.900 |
| ***Subtotal: 1) Hardware*** | | | **-** | **-** | ***736.961*** | **-** | **-** | ***117.820*** | **-** | **-** | ***189.018*** | **-** | **-** | ***250.635*** | **-** | **-** | **-** | **-** | **-** | ***250.635*** |
| **2) Production Engineering** (50) | | | | | | | | | | | | | | | | | | | | |
| 2.1) CNATRA | A | | - | - | 9.765 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.2) E-6 | A | | - | - | 3.828 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.3) EP-3 | A | | - | - | 1.266 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.4) FA-18 | A | | - | - | 18.684 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.5) P-3C | A | | - | - | 0.908 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.6) UMFO Training | A | | - | - | 5.642 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.7) USMC Federation Simulators | A | | - | - | 58.038 | - | - | 8.819 | - | - | 7.744 | - | - | 7.312 | - | - | - | - | - | 7.312 |
| 2.8) E-2/C-2 | A | | - | - | 5.095 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.9) MH-53 | A | | - | - | 2.306 | - | - | 0.504 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.10) NASMP | A | | - | - | 104.237 | - | - | 22.721 | - | - | 22.816 | - | - | 24.416 | - | - | - | - | - | 24.416 |
| 2.11) LVC | A | | - | - | 3.211 | - | - | 0.695 | - | - | 2.105 | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 2) Production Engineering*** | | | **-** | **-** | ***212.980*** | **-** | **-** | ***32.739*** | **-** | **-** | ***32.665*** | **-** | **-** | ***31.728*** | **-** | **-** | **-** | **-** | **-** | ***31.728*** |
| **3) Production Support** | | | | | | | | | | | | | | | | | | | | |
| 3.1) CNATRA | A | | - | - | 4.398 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.2) E-6 | A | | - | - | 2.101 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.3) EP-3 | A | | - | - | 1.987 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.4) FA-18 | A | | - | - | 2.392 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.5) P-3C | A | | - | - | 1.976 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.6) UMFO Training | A | | - | - | 2.410 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.7) E-2/C-2 | A | | - | - | 1.618 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items Title: OTHER FLIGHT TRAINING |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| 3.8) MH-53 | A | | - | - | 1.011 | - | - | 0.187 | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.9) USMC Federation Simulators | A | | - | - | 36.878 | - | - | 4.626 | - | - | 4.785 | - | - | 4.880 | - | - | - | - | - | 4.880 |
| 3.10) NASMP | A | | - | - | 61.100 | - | - | 10.114 | - | - | 10.138 | - | - | 9.889 | - | - | - | - | - | 9.889 |
| 3.11) LVC | A | | - | - | 1.837 | - | - | 0.538 | - | - | 0.580 | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 3) Production Support*** | | | **-** | **-** | ***117.708*** | **-** | **-** | ***15.465*** | **-** | **-** | ***15.503*** | **-** | **-** | ***14.769*** | **-** | **-** | **-** | **-** | **-** | ***14.769*** |
| **4) Acceptance Testing** | | | | | | | | | | | | | | | | | | | | |
| 4.1) CNATRA | A | | - | - | 1.837 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.2) E-6 | A | | - | - | 0.242 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.3) EP-3 | A | | - | - | 0.239 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.4) P-3C | A | | - | - | 0.394 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.5) UMFO Training | A | | - | - | 0.393 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.6) USMC Federation Simulators | A | | - | - | 3.170 | - | - | 0.793 | - | - | 0.809 | - | - | 0.825 | - | - | - | - | - | 0.825 |
| 4.7) E-2/C-2 | A | | - | - | 0.244 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4.8) NASMP | A | | - | - | 9.437 | - | - | 2.094 | - | - | 2.087 | - | - | 2.493 | - | - | - | - | - | 2.493 |
| 4.9) LVC | A | | - | - | 1.821 | - | - | 0.303 | - | - | 0.721 | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 4) Acceptance Testing*** | | | **-** | **-** | ***17.777*** | **-** | **-** | ***3.190*** | **-** | **-** | ***3.617*** | **-** | **-** | ***3.318*** | **-** | **-** | **-** | **-** | **-** | ***3.318*** |
| **Total** | | | **-** | **-** | **1,085.426** | **-** | **-** | **169.214** | **-** | **-** | **240.803** | **-** | **-** | **300.450** | **-** | **-** | **-** | **-** | **-** | **300.450** |

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

(†) indicates the presence of a P-5a

**Footnotes:**

(24) USMC Fed Sim - Aviation Distributed Virtual Training Environment (ADVTE) Modernization. ADVTE is a System-of-System consisting of Marine Aviation Training System (ATS) training devices, centralized Network Exercise Control Centers and networking equipment necessary to deliver virtual and constructive simulation based training. The increase in cost in FY21 represents the cost estimate to install new ADVTE capability at 1st MAW. FY22-23 has funding to implement the Common Virtual Training Area (CVTA) that will be used across the ADVTE network.

(25) KC-130J OCONUS Weapon System Trainer (WST) Modernization will upgrade obsolete components and improve trainer availability (less down time). Over 50% of Aircrew flight training is conducted in the WST directly reducing flying hour costs and improving mission readiness of aircraft.

(26) AH-1Z Flight Training Device (FTD) Modernization to reduce trainer hardware obsolescence, improve visual displays, increase software reliability and increase cyber security. Over 50% of Aircrew flight training is conducted in simulators directly reducing flying hour costs and improving mission readiness of aircraft.

(27) UH-1Y and UH1Y Flight Training Device (FTD) Modernization to reduce trainer hardware obsolescence, improve visual displays, increase software reliability and increase cyber security. Over 50% of Aircrew flight training is conducted in simulators directly reducing flying hour costs and improving mission readiness of aircraft.

(28) AV-8B Maintenance Trainer (MT) Modernization to improve trainer availability (less down time). AV-8B maintenance personnel learn initial and reoccurring troubleshooting and repair skills which contribute to lowering the maintenance troubleshooting & repair time resulting in higher fleet readiness.

(29) NASMP - Navy Continuous Training Environment (NCTE) Nodes Upgrades to NASMP - Navy Continuous Training Environment (NCTE) Nodes

(30) Contract will be terminated for convenience. 1 device delivered. Remaining devices under negotiation.

(31) Operator Machine Interface Assistant - Acoustics Trainer Simulator (OMIA-ATS)

(32) Contract will be terminated for convenience. Remaining devices under negotiation.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items Title:** OTHER FLIGHT TRAINING |

(33) Procure visual database upgrade. Upgrade H-60 training devices to meet cybersecurity requirements necessary to retain Authority to Operate (ATO) and Authority to Connect (ATC) to the NCTE. Upgrade Mine Warfare (MIW) training capability.

(34) NASMP - FA/EA-18 Visual Display Upgrades to NASMP - FA/EA-18 Visual Display and Database Upgrades

(35) Includes Next Generation Threat System (NGTS), Navy Weapon System Simulation Common Environment (WRSE), NAVAIR Portable Source Initiative (NPSI)and Common Acoustic Simulation Environment (CASE).

(36) NASMP - Cross Domain Solution (CDS) Upgrades to NASMP - Cross Domain Solution (CDS)/Network Upgrades

(37) NASMP - E-2D OFT/Aircrew Proc Trn (APT)/Tact Trn (TT) Tech Modern to NASMP - E-2D OFT/Aircrew Proc Trn (APT)/Tact Trn (TT) Modernization

(38) NASMP - E-6B OFT/IAT Trainer Tech Refresh to NASMP - E-6B OFT/IAT Trainer Modernization

(39) NADTC and Distributed Mission Training: Procure Strike Distributed Mission Training (DMT) capability upgrades to ensure electronic warfare/threat simulation is common across all mission participants, resolve simulator network discrepancies, address platform trainer limitations that prevent repeatable distributed training capability, voice communications upgrades, and jamming. Includes updated hardware and software for Navy Aviation Distributed Training Center (NADTC) to provide simultaneous operations, expanded training support, and multi-level security architecture. Includes upgrades to approximately 130 F/A-18 E/F, EA-18-G, E-2D, and F-35C simulators at multiple Fleet sites across the FYDP in order to enable a realistic, relevant, and recordable secure virtual environment. Critical to achieving the LVC 2025 vision to ensure high-end fight capability for the Warfighter without the limitations of training range operations.

(40) Fleet Training Wholeness (FTW) enabler.

(41) Instructor Operator Station (IOS)-Brief Debrief Station (BDS)-Mission Operations Center (MOC)

(42) Includes previously broken out lines for F/A-18 IOS-BDS-MOC Ownship Fidelity Upgrades and F/A-18 IOS-BDS-MOC Console and Display Fidelity Upgrades.

(43) Procure F/A-18 LCTs to address simulator training capacity limitations for high end fight Naval Integrated Fire Control (NIFC) distributed training and meet NASMP end-state requirements at East and West coast sites. LCTs will be integrated with common NCTE network infrastructure.

(44) Upgrade P-8A training devices at NAS Jacksonville, FL and NAS Whidbey Island, WA to Windows 10 to meet cybersecurity requirements necessary to retain Authority to Operate (ATO) and Authority to Connect (ATC) to the NCTE.

(45) NASMP - CNATRA - T-44 Visual Upgrades

(46) Upgrade Chief of Naval Aviation Training (CNATRA) Simulators and Ground Based Training Systems (GBTS)Investment is necessary to address obsolescence issues and keep CNATRA simulators operable for a continuous 16 hours a day, 252 days per year to meet pilot and Naval Flight Officer production goals. Tech refresh Virtual Mission Training System (VMTS) OFT and T-45C Virtual Mission Training System (VMTS) Instructor Ground Station (IGS) at Pensacola.

(47) Upgrade Chief of Naval Aviation Training (CNATRA) Courseware from Adobe Flash to HTML5. Adobe Flash is end of life and unsupported.

(48) This line funds procurement of various equipment necessary to create an Integrated Training Facility at the Naval Aviation Warfighting Development Center (NAWDC), Fallon. Fluctuations in funding from year to year are based on the individual Fleet training requirements for multiple aircraft Type/Model/Series.

(49) Naval Aviation Warfighting Development Center (NAWDC)/LVC/Air Defense Strike Group Facility (ADSGF): Procure required hardware/software and integrate with training system architectures at both the Integrated Training Facility (ITF) and ADSGF.

(50) Production Engineering includes costs previously broken out under a separate line as Integrated Logistics Support. Consolidation increases Program Office efficiency and better aligns program technical support costs in accordance with DoD Financial Management Regulations (FMR) guidance.

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items: OTHER FLIGHT TRAINING |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1) Hardware** | | | | | | | | | | | | |
| 1.33) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT)(†) | | 2014 | Kratos Technology / San Diego, CA | C / FFP | NAWCTSD | Aug 2016 | Oct 2020 | 2 | 11,100K | Y | | Oct 2015 |
| 1.33) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT)(†) | | 2015 | Kratos Technology / San Diego, CA | C / FFP | NAWCTSD | Aug 2016 | Jan 2021 | 3 | 10,933K | Y | | Oct 2015 |
| 1.33) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT)(†) | | 2018 | Kratos Technology. / San Diego, CA | C / FFP | NAWCTSD | Jun 2018 | Apr 2021 | 2 | 9,244K | Y | | Oct 2015 |
| 1.55) USMC Fed Sim - FA-18 C/D SimuStrike Trainer | | 2018 | L-3 Link Simulation & Training / Arlington, TX | SS / FFP | NAWCTSD | Mar 2019 | Mar 2021 | 5 | 1,242K | Y | | Oct 2018 |
| 1.58) USMC Fed Sim - AV-8B Deployable Mission Rehearsal Trainer (DMRT) | | 2014 | Logistics Services International / Jacksonville, FL | C / FFP | NAWCTSD | Aug 2016 | Nov 2018 | 2 | 2,110K | Y | | Oct 2014 |
| 1.58) USMC Fed Sim - AV-8B Deployable Mission Rehearsal Trainer (DMRT) | | 2015 | Logistics Services International / Jacksonville, FL | C / FFP | NAWCTSD | Aug 2016 | Nov 2018 | 6 | 655,166.67 | Y | | Oct 2014 |
| 1.76) NASMP - Navy Continuous Training Environment (NCTE) Nodes (29) | | 2020 | NWDC (1) / Norfolk, VA | MIPR | DTIC | Jul 2020 | Jul 2021 | 2 | 400,000.00 | Y | | Feb 2020 |
| 1.76) NASMP - Navy Continuous Training Environment (NCTE) Nodes (29) | | 2021 | NWDC (1) / Norfolk, VA | MIPR | DTIC | Jul 2021 | Jul 2022 | 2 | 400,000.00 | Y | | Feb 2021 |
| 1.77) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) (30)(†) | | 2014 | BSC Partners / Binghampton, NY | SS / FFP | NAWCTSD | Sep 2015 | May 2020 | 2 | 6,380K | Y | | May 2013 |
| 1.77) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) (30)(†) | | 2015 | BSC Partners* / Binghampton, NY | SS / FFP | NAWCTSD | Dec 2014 | May 2020 | 1 | 6,238K | Y | | May 2013 |
| 1.83) NASMP - MH-60R Naval Aircrew Training Systems (NATS) (32)(†) | | 2013 | BSC Partners / Binghampton, NY | SS / FFP | NAWCTSD | Nov 2013 | May 2020 | 2 | 9,696K | Y | | Apr 2013 |
| 1.83) NASMP - MH-60R Naval Aircrew Training Systems (NATS) (32)(†) | | 2015 | BSC Partners / Binghampton, NY | SS / FFP | NAWCTSD | Dec 2014 | May 2020 | 1 | 7,441K | Y | | Apr 2013 |
| 1.83) NASMP - MH-60R Naval Aircrew Training Systems (NATS) (32)(†) | | 2017 | BSC Partners / Binghampton,NY | SS / FFP | NAWCTSD | May 2017 | May 2020 | 1 | 6,272K | Y | | Apr 2013 |

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0705 / Common Ground Equipment | Aggregated Items: OTHER FLIGHT TRAINING |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.139) NASMP - FA-18 - Low Cost Trainer (LCT) (43)(†) | | 2021 | Boeing Co. / St. Louis, MO | SS / FFP | NAWCTSD | Mar 2021 | Dec 2022 | 17 | 1,235K | Y | | Jul 2020 |

(†) indicates the presence of a P-21

| Exhibit P-21, Production Schedule: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** OTHER FLIGHT TRAINING |

| Items (Units in Each) | | | | | | | Fiscal Year 2014 | | | | | | | | | | | | Fiscal Year 2015 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2014 | | | | | | | | | | | | Calendar Year 2015 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2013 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.33) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 2014 | NAVY | 2 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | 20 | 2015 | NAVY | 3 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | 21 | 2018 | NAVY | 2 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 1.77) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) (30) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 2014 | NAVY | 2 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | | A - | 2 |
| | 23 | 2015 | NAVY | 1 | 0 | 1 | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | 1 |
| 1.83) NASMP - MH-60R Naval Aircrew Training Systems (NATS) (32) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | 2013 | NAVY | 2 | 0 | 2 | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 |
| | 24 | 2015 | NAVY | 1 | 0 | 1 | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | 1 |
| | 25 | 2017 | NAVY | 1 | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 1.139) NASMP - FA-18 - Low Cost Trainer (LCT) (43) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 26 | 2021 | NAVY | 17 | 0 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | 17 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** PB 2021 Navy | | **Date:** February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** OTHER FLIGHT TRAINING |

| Items (Units in Each) | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2016 | | | | | | | | | | | | Calendar Year 2017 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.33) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 2014 | NAVY | 2 | 0 | 2 | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 |
| | 20 | 2015 | NAVY | 3 | 0 | 3 | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| | 21 | 2018 | NAVY | 2 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 1.77) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) (30) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 2014 | NAVY | 2 | 0 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 |
| | 23 | 2015 | NAVY | 1 | 0 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| 1.83) NASMP - MH-60R Naval Aircrew Training Systems (NATS) (32) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | 2013 | NAVY | 2 | 0 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 |
| | 24 | 2015 | NAVY | 1 | 0 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| | 25 | 2017 | NAVY | 1 | 0 | 1 | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | 1 |
| 1.139) NASMP - FA-18 - Low Cost Trainer (LCT) (43) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 26 | 2021 | NAVY | 17 | 0 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | 17 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** PB 2021 Navy | **Date:** February 2020

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** OTHER FLIGHT TRAINING

| Items (Units in Each) | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2018 | | | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.33) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 2014 | NAVY | 2 | 0 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 |
| | 20 | 2015 | NAVY | 3 | 0 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| | 21 | 2018 | NAVY | 2 | 0 | 2 | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 |
| 1.77) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) (30) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 2014 | NAVY | 2 | 0 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 |
| | 23 | 2015 | NAVY | 1 | 0 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| 1.83) NASMP - MH-60R Naval Aircrew Training Systems (NATS) (32) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | 2013 | NAVY | 2 | 0 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 |
| | 24 | 2015 | NAVY | 1 | 0 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| | 25 | 2017 | NAVY | 1 | 0 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| 1.139) NASMP - FA-18 - Low Cost Trainer (LCT) (43) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 26 | 2021 | NAVY | 17 | 0 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | 17 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** PB 2021 Navy | **Date:** February 2020

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** OTHER FLIGHT TRAINING

| Items (Units in Each) | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2020 | | | | | | | | | | | | | | | Calendar Year 2021 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.33) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 2014 | NAVY | 2 | 0 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | | | | | | | | | 0 |
| | 20 | 2015 | NAVY | 3 | 0 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | 1 | | 0 |
| | 21 | 2018 | NAVY | 2 | 0 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | | | 0 |
| 1.77) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) (30) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 2014 | NAVY | 2 | 0 | 2 | - | - | - | - | - | - | - | 1 | 1 | | | | | | | | | | | | | | | | 0 |
| | 23 | 2015 | NAVY | 1 | 0 | 1 | - | - | - | - | - | - | - | 1 | | | | | | | | | | | | | | | | | 0 |
| 1.83) NASMP - MH-60R Naval Aircrew Training Systems (NATS) (32) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | 2013 | NAVY | 2 | 0 | 2 | - | - | - | - | - | - | - | 2 | | | | | | | | | | | | | | | | | 0 |
| | 24 | 2015 | NAVY | 1 | 0 | 1 | - | - | - | - | - | - | - | 1 | | | | | | | | | | | | | | | | | 0 |
| | 25 | 2017 | NAVY | 1 | 0 | 1 | - | - | - | - | - | - | - | 1 | | | | | | | | | | | | | | | | | 0 |
| 1.139) NASMP - FA-18 - Low Cost Trainer (LCT) (43) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 26 | 2021 | NAVY | 17 | 0 | 17 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 17 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** PB 2021 Navy | **Date:** February 2020

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1

**P-1 Line Item Number / Title:** 0705 / Common Ground Equipment

**Aggregated Items:** OTHER FLIGHT TRAINING

| Items (Units in Each) | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2022 | | | | | | | | | | | | Calendar Year 2023 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2021 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Hardware** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.33) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 2014 | NAVY | 2 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 20 | 2015 | NAVY | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 21 | 2018 | NAVY | 2 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.77) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) (30) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 2014 | NAVY | 2 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 23 | 2015 | NAVY | 1 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.83) NASMP - MH-60R Naval Aircrew Training Systems (NATS) (32) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24 | 2013 | NAVY | 2 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 24 | 2015 | NAVY | 1 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 25 | 2017 | NAVY | 1 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.139) NASMP - FA-18 - Low Cost Trainer (LCT) (43) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 26 | 2021 | NAVY | 17 | 0 | 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | | 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 | |

| Exhibit P-21, Production Schedule: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0705 / Common Ground Equipment | **Aggregated Items:** OTHER FLIGHT TRAINING |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | 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 | Kratos Technology - San Diego, CA | 1 | 1 | 3 | 0 | 12 | 50 | 62 | 0 | 9 | 53 | 62 |
| 2 | Kratos Technology. - San Diego, CA | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 9 | 34 | 43 |
| 3 | BSC Partners - Binghampton, NY | 1 | 1 | 3 | 0 | 0 | 68 | 68 | 0 | 2 | 56 | 58 |
| 4 | BSC Partners* - Binghampton, NY | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 65 | 67 |
| 5 | BSC Partners - Binghampton, NY | 1 | 1 | 3 | 0 | 0 | 78 | 78 | 0 | 2 | 65 | 67 |
| 6 | BSC Partners - Binghampton,NY | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 36 | 38 |
| 7 | Boeing Co. - St. Louis, MO | 6 | 20 | 40 | 0 | 2 | 22 | 24 | 0 | 5 | 21 | 26 |

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

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | Date: February 2020 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0715 / Aircraft Industrial Facilities |

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

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

| 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)* | 1,125.434 | 24.496 | 71.335 | 75.685 | 0.000 | 75.685 | 85.651 | 122.584 | 132.940 | 128.476 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,125.434 | 24.496 | 71.335 | 75.685 | 0.000 | 75.685 | 85.651 | 122.584 | 132.940 | 128.476 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,125.434** | **24.496** | **71.335** | **75.685** | **0.000** | **75.685** | **85.651** | **122.584** | **132.940** | **128.476** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Calibration Equipment Description:
The objective of the Metrology/Calibration (METCAL) Program is to maintain required accuracy and consistency in Navy measurements. This ensures the required measurement accuracy of Test and Measurement Systems (TAMS) and Aviation Support Equipment (SE) used to test, repair and maintain Aviation Weapon Systems is adequate. Calibration is an on-cycle maintenance action and can be described as the comparison of a measurement device/system of unverified/unknown accuracy (TAMS or SE) to a device of known and greater accuracy (Calibration Standard).

Fleet Readiness Centers (FRC) Support Equipment (SE)/Industrial Equipment Description:
The Objective of the FRC SE/Industrial Equipment Investment program is to increase Ready Basic Aircraft (RBA). The purchase of equipment for the Fleet Readiness Centers will increase the agility, capability, and capacity to perform the critical mission of repair, overhaul of aircraft, engines, and components while maintaining the organic industrial capacity to meet current and future requirements.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | Date: February 2020 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0715 / Aircraft Industrial Facilities |

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

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

| Exhibits Schedule | | | | | Prior Years | FY 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) I ($ M) | Quantity / Total Cost (Each) I ($ M) | Quantity / Total Cost (Each) I ($ M) | Quantity / Total Cost (Each) I ($ M) | Quantity / Total Cost (Each) I ($ M) | Quantity / Total Cost (Each) I ($ M) |
| P-40a | Aircraft Industrial Facilities | P-5a | | | - / 641.702 | - / 24.496 | - / 28.827 | - / 29.422 | - / - | - / 29.422 |
| P-40a | FRC SE/Industrial Equipment | P-5a | | | - / 483.732 | - / - | - / 42.508 | - / 46.263 | - / - | - / 46.263 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 1,125.434** | **- / 24.496** | **- / 71.335** | **- / 75.685** | **- / 0.000** | **- / 75.685** |

*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**

Calibration Equipment:

Funds are used to procure Calibration Standards (CALSTDs) and ancillary equipment for Aviation Fleet Intermediate Calibration Activities, Fleet Training Activities, Aviation Navy Calibration Laboratories (NCLs), and the Navy Primary Standards Laboratory (NPSL). CALSTDs procured for Fleet 'I' level use are to replace obsolete and/or irreparable equipment, expand technical measurement capabilities to decrease Depot support costs, reduce out-of-service turn around times, provide enhanced forward deployed geographic support and reduce/control the Naval Air Systems Command (NAVAIR) cost of ownership associated with Calibration. Fleet 'I' level calibration activities support 70% of the total Fleet calibration workload. Maintenance of Fleet calibration capability through this funding results in the release of more expensive Depot level support man-hours for more complex calibration maintenance and calibrations where economy of scale costs dictate single site or geographic calibration center capability. CALSTDs procured for NCLs and the NPSL allow for the automation and improvement of calibration procedures in order to reduce Fleet asset out-of-service and Turn around Time, expand technical calibration capabilities for enhanced in-theater Fleet support, and replace obsolete and high support cost CALSTDs.

FRC SE/Industrial Equipment:

Funds are used to procure industrial equipment, peculiar and common ground support equipment, necessary to support aircraft, engine, and component depot level repairs. Replacing obsolete and or irreparable equipment, tooling; test equipment. Procuring equipment for modernization, maintenance of equipment along with miscellaneous other production charges in support of production and testing services, at depot facilities. Procuring new types of equipment to modernize and expand technical capabilities to increase throughput. Procuring training aids and fund installation of the equipment to include required environmental enclosures and training equipment; simulators, all in support of aircraft industrial production facilities.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0715 / Aircraft Industrial Facilities | **Aggregated Items Title:** Aircraft Industrial Facilities |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) Aircraft Industrial Facilities** | | | | | | | | | | | | | | | | | | | | |
| 1.1) Automated / Interface CALSTDs (1)(†) | A | | 14,323.50 | 1,017 | 14.567 | 3,024.59 | 122 | 0.369 | 3,246.03 | 126 | 0.409 | 3,242.19 | 128 | 0.415 | - | - | - | 3,242.19 | 128 | 0.415 |
| 1.2) Low Frequency AC/DC CALSTDs (2)(†) | A | | 49,625.20 | 2,524 | 125.254 | 10,770.49 | 427 | 4.599 | 10,737.25 | 510 | 5.476 | 10,902.53 | 513 | 5.593 | - | - | - | 10,902.53 | 513 | 5.593 |
| 1.3) Other CALSTDs Procurement(†) | A | | 18,781.69 | 1,136 | 21.336 | 6,648.15 | 108 | 0.718 | 6,259.84 | 127 | 0.795 | 6,271.32 | 129 | 0.809 | - | - | - | 6,271.32 | 129 | 0.809 |
| 1.4) Physical Dimen / Optical CALSTDs (3)(†) | A | | 91,677.40 | 1,894 | 173.637 | 29,316.67 | 240 | 7.036 | 31,490.20 | 255 | 8.030 | 31,458.02 | 262 | 8.242 | - | - | - | 31,458.02 | 262 | 8.242 |
| 1.5) RF / Microwave CALSTDs(†) | A | | 48,126.23 | 2,749 | 132.299 | 12,971.92 | 463 | 6.006 | 13,116.61 | 566 | 7.424 | 13,153.31 | 574 | 7.550 | - | - | - | 13,153.31 | 574 | 7.550 |
| 1.6) Res / Impedance CALSTDs (4)(†) | A | | 36,318.80 | 1,170 | 42.493 | 6,742.14 | 159 | 1.072 | 6,886.36 | 176 | 1.212 | 7,023.72 | 180 | 1.264 | - | - | - | 7,023.72 | 180 | 1.264 |
| 1.7) Logistics / Engineering Support (5) | A | | - | - | 52.299 | - | - | 3.352 | - | - | 3.857 | - | - | 3.904 | - | - | - | - | - | 3.904 |
| 1.8) Production / Aquisition (6) | A | | - | - | 79.817 | - | - | 1.344 | - | - | 1.624 | - | - | 1.645 | - | - | - | - | - | 1.645 |
| ***Subtotal: 1) Aircraft Industrial Facilities*** | | | **-** | **-** | ***641.702*** | **-** | **-** | ***24.496*** | **-** | **-** | ***28.827*** | **-** | **-** | ***29.422*** | **-** | **-** | **-** | **-** | **-** | ***29.422*** |
| **Total** | | | **-** | **-** | **641.702** | **-** | **-** | **24.496** | **-** | **-** | **28.827** | **-** | **-** | **29.422** | **-** | **-** | **-** | **-** | **-** | **29.422** |

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

(†) indicates the presence of a P-5a

**Footnotes:**

(1) Each Cost Element with a Quantity represents a number of different end items. The Unit Cost is an average cost for all the end items in the Cost element.

(2) Increase of 3 units from FY20-21 is a result of an across the board Aviation Readiness Recovery initiative to fill fleet operational force Calibration Standards inventory shortages per Type Commander priorities in direct support of CV/ L-class ships and associated squadrons.

(3) Increase of 7 units from FY20-21 is a result of an across the board Aviation Readiness Recovery initiative to fill fleet operational force Calibration Standards inventory shortages per Type Commander priorities in direct support of CV/ L-class ships and associated squadrons.

(4) Increase of 4 units from FY20-21 is a result of an across the board Aviation Readiness Recovery initiative to fill fleet operational force Calibration Standards inventory shortages per Type Commander priorities in direct support of CV/ L-class ships and associated squadrons.

(5) Increase from FY20-21 is a result of an across the board Aviation Readiness Recovery initiative to provide the additional contract, acquisition, and engineering resources required to procure and field the increased hardware requirements.

(6) Increase from FY20-21 is a result of an across the board Aviation Readiness Recovery initiative to provide the additional contract, acquisition, and engineering resources required to procure and field the increased hardware requirements.

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0715 / Aircraft Industrial Facilities | Aggregated Items: Aircraft Industrial Facilities |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1) Aircraft Industrial Facilities** | | | | | | | | | | | | |
| 1.1) Automated / Interface CALSTDs (1) | | 2018 | Various / Various | C / FP | Multiple | Oct 2017 | Oct 2017 | 127 | 2,976.38 | Y | | |
| 1.1) Automated / Interface CALSTDs (1) | | 2019 | Various / Various | C / FP | Multiple | Oct 2018 | Oct 2018 | 122 | 3,024.59 | Y | | |
| 1.1) Automated / Interface CALSTDs (1) | | 2020 | Various / Various | C / FP | Multiple | Oct 2019 | Oct 2019 | 126 | 3,246.03 | Y | | |
| 1.1) Automated / Interface CALSTDs (1) | | 2021 | Various / Various | C / FP | Multiple | Oct 2020 | Oct 2020 | 128 | 3,242.19 | Y | | |
| 1.2) Low Frequency AC/DC CALSTDs (2) | | 2018 | Various / Various | C / FP | Multiple | Oct 2017 | Oct 2017 | 436 | 10,795.87 | Y | | |
| 1.2) Low Frequency AC/DC CALSTDs (2) | | 2019 | Various / Various | C / FP | Multiple | Oct 2018 | Oct 2018 | 427 | 10,770.49 | Y | | |
| 1.2) Low Frequency AC/DC CALSTDs (2) | | 2020 | Various / Various | C / FP | Multiple | Oct 2019 | Oct 2019 | 510 | 10,737.25 | Y | | |
| 1.2) Low Frequency AC/DC CALSTDs (2) | | 2021 | Various / Various | C / FP | Multiple | Oct 2020 | Oct 2020 | 513 | 10,902.53 | Y | | |
| 1.3) Other CALSTDs Procurement | | 2018 | Various / Various | C / FP | Multiple | Oct 2017 | Oct 2017 | 114 | 6,105.26 | Y | | |
| 1.3) Other CALSTDs Procurement | | 2019 | Various / Various | C / FP | Multiple | Oct 2018 | Oct 2018 | 108 | 6,648.15 | Y | | |
| 1.3) Other CALSTDs Procurement | | 2020 | Various / Various | C / FP | Multiple | Oct 2019 | Oct 2019 | 127 | 6,259.84 | Y | | |
| 1.3) Other CALSTDs Procurement | | 2021 | Various / Various | C / FP | Multiple | Oct 2020 | Oct 2020 | 129 | 6,271.32 | Y | | |
| 1.4) Physical Dimen / Optical CALSTDs (3) | | 2018 | Various / Various | C / FP | Multiple | Oct 2017 | Oct 2017 | 248 | 33,258.06 | Y | | |
| 1.4) Physical Dimen / Optical CALSTDs (3) | | 2019 | Various / Various | C / FP | Multiple | Oct 2018 | Oct 2018 | 240 | 29,316.67 | Y | | |
| 1.4) Physical Dimen / Optical CALSTDs (3) | | 2020 | Various / Various | C / FP | Multiple | Oct 2019 | Oct 2019 | 255 | 31,490.20 | Y | | |
| 1.4) Physical Dimen / Optical CALSTDs (3) | | 2021 | Various / Various | C / FP | Multiple | Oct 2020 | Oct 2020 | 262 | 31,458.02 | Y | | |
| 1.5) RF / Microwave CALSTDs | | 2018 | Various / Various | C / FP | Multiple | Oct 2017 | Oct 2017 | 472 | 12,953.39 | Y | | |
| 1.5) RF / Microwave CALSTDs | ✓ | 2018 | Various / Various | C / FP | Multiple | Oct 2017 | Oct 2017 | 8 | 57,875.00 | Y | | |
| 1.5) RF / Microwave CALSTDs | | 2019 | Various / Various | C / FP | Multiple | Oct 2018 | Oct 2018 | 463 | 12,971.92 | Y | | |
| 1.5) RF / Microwave CALSTDs | | 2020 | Various / Various | C / FP | Multiple | Oct 2019 | Oct 2019 | 566 | 13,116.61 | Y | | |
| 1.5) RF / Microwave CALSTDs | | 2021 | Various / Various | C / FP | Multiple | Oct 2020 | Oct 2020 | 574 | 13,153.31 | Y | | |

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0715 / Aircraft Industrial Facilities | Aggregated Items: Aircraft Industrial Facilities |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.6) Res / Impedance CALSTDs (4) | | 2018 | Various / Various | C / FP | Multiple | Oct 2017 | Oct 2017 | 165 | 5,406.06 | Y | | |
| 1.6) Res / Impedance CALSTDs (4) | | 2019 | Various / Various | C / FP | Multiple | Oct 2018 | Oct 2018 | 159 | 6,742.14 | Y | | |
| 1.6) Res / Impedance CALSTDs (4) | | 2020 | Various / Various | C / FP | Multiple | Oct 2019 | Oct 2019 | 176 | 6,886.36 | Y | | |
| 1.6) Res / Impedance CALSTDs (4) | | 2021 | Various / Various | C / FP | Multiple | Oct 2020 | Oct 2020 | 180 | 7,023.72 | Y | | |

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0715 / Aircraft Industrial Facilities | **Aggregated Items Title:** FRC SE/Industrial Equipment |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) FRC group 0204164N** | | | | | | | | | | | | | | | | | | | | |
| 1.1) Divestiture Support | A | | - | - | 483.732 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.2) Equipment Purchase (7)(†) | A | | - | - | - | - | - | - | 1,903K | 17 | 32.353 | 1,405K | 25 | 35.133 | - | - | - | 1,405K | 25 | 35.133 |
| 1.3) Equipment Installation (8) | A | | - | - | - | - | - | - | - | - | 7.663 | - | - | 8.417 | - | - | - | - | - | 8.417 |
| 1.4) Acquisition Support (9) | A | | - | - | - | - | - | - | - | - | 2.492 | - | - | 2.713 | - | - | - | - | - | 2.713 |
| ***Subtotal: 1) FRC group 0204164N*** | | | **-** | **-** | ***483.732*** | **-** | **-** | **-** | **-** | **-** | ***42.508*** | **-** | **-** | ***46.263*** | **-** | **-** | **-** | **-** | **-** | ***46.263*** |
| **Total** | | | **-** | **-** | **483.732** | **-** | **-** | **-** | **-** | **-** | **42.508** | **-** | **-** | **46.263** | **-** | **-** | **-** | **-** | **-** | **46.263** |

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

(†) indicates the presence of a P-5a

**Footnotes:**

(7) Each Cost Element with a Quantity represents a number of different end items. The Unit Cost is an estimated average cost for all the end items in the Cost element. FY21 thru FY25 quantities increase due to the standup of the Infrastructure Optimization Plan (IOP) to support aircraft and components depot repairs.

(8) The totals for Cost Element 1.3 (Equipment Installation) are based on historical values pulled from previous years of Capital Investment Program (CIP) procurement of similar types of equipment. Installation cost for equipment projects include minor facilities and utilities modifications and Naval Facilities Engineering Command support costs. FY21 thru FY25 cost increases are due to the Infrastructure Optimization Plan (IOP) to support aircraft and components depot repairs.

(9) The totals for Cost Element 1.4 (Acquisition Support) are based on historical values pulled from previous years of Capital Investment Program (CIP) procurement of similar types of equipment. The acquisition support costs are based on estimated average fees for the Contracting Administration entities, such as Defense Logistics Agency, for their efforts with contract award and procurement administrative functions. FY21 thru FY25 cost increases are due to the Infrastructure Optimization Plan (IOP) to support aircraft and components depot repairs.

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0715 / Aircraft Industrial Facilities | Aggregated Items: FRC SE/Industrial Equipment |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1) FRC group 0204164N** | | | | | | | | | | | | |
| 1.2) Equipment Purchase (7) | | 2020 | Various / Various | Various | Multiple | Mar 2020 | Mar 2020 | 17 | 1,903K | N | Oct 2019 | |
| 1.2) Equipment Purchase (7) | | 2021 | Various / Various | Various | Multiple | Oct 2020 | Oct 2020 | 25 | 1,405K | N | Oct 2020 | |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | Date: February 2020 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:** 0720 / War Consumables |

| **ID Code** (A=Service Ready, B=Not Service Ready): B | **Program Elements for Code B Items:** 0204164N, 0204161N, 0604329N | **Other Related Program Elements:** 0205633N, 0604659N |
|---|---|---|

**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 *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 955.789 | 42.035 | 32.086 | 40.633 | 0.000 | 40.633 | 43.383 | 44.297 | 51.191 | 61.096 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 955.789 | 42.035 | 32.086 | 40.633 | 0.000 | 40.633 | 43.383 | 44.297 | 51.191 | 61.096 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **955.789** | **42.035** | **32.086** | **40.633** | **0.000** | **40.633** | **43.383** | **44.297** | **51.191** | **61.096** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | 0.512 | - | 0.512 | 0.099 | 0.100 | 0.100 | 0.100 | Continuing | Continuing |
| Flyaway Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The WAR CONSUMABLES P-1 line item has two subcategories: Common Aircraft Ancillary Equipment (AAE) and Aerial Refueling Stores (ARS). The Common AAE program procures, modifies and upgrades common bomb racks, peculiar bomb racks, missile launchers and related support for USN/USMC platforms. The ARS program procures, modifies, and upgrades aerial refueling stores, External Fuel Tanks (EFT) and related support.

COMMON AIRCRAFT ANCILLARY EQUIPMENT (AAE)
As directed by OPNAVINST 8000.16B (Naval Ordnance Maintenance Management Program (NOMMP)), the appropriation provides for procurement of new AAE to replace attrition losses, provides for production engineering support and satisfies commonality policy goals set forth by the Navy's Strike Warfare Master Plan. Specifically, the following equipment is funded as AAE within the War Consumables budget:
- Upgrades, modifications and reliability improvements to common and peculiar bomb rack.
- Upgrades, modifications and reliability improvements to various missile launchers and associated equipment that support the following platforms: F/A-18 A-F, EA-18G, AV-8B, P-3C, AH-1W/Z, UH-1N/Y and MH-60R/S.
- Upgrades, modifications and reliability improvements to Pure Air Generating Systems (PAGS). There are two variants of PAGS, Marotta Pure Air Compression Technology (MPACT)/High Pressure Pure Air Generators (HiPPAG), currently in use as on-board coolant generator for missile launchers carrying infrared (IR) seeking missiles.
- The LAU-127 procurements in FY 2019 are to replace launchers that are beyond capable maintenance (BCM) and are removed from the fleet to increase Fleet readiness.
- The BRU-55 is an upgrade to the BRU-33 CVER (Canted Vertical), with electronic upgrades, which allows for the carriage and release of two MIL-STD-1760 weapons from a single F/A-18 A-F station. The BRU-55 was developed as part of the Mk-82 JDAM program.
- A Universal Armament Interface (UAI) Type II interface is required for operation and carriage of the Small Diameter Bomb II (SDB II) weapon on the threshold aircrafts F-35B and F-35C and the objective aircraft F/A-18 E/F for the Department of the Navy (DoN). DoN will be using BRU-55 for carriage on F-18 E/F aircraft and BRU-61 for F-35 B/C to support the SDB II warfighter requirements, Initial Operating Capability (IOC), and schoolhouse requirements. BRU-55 A/A's will be modified to BRU-55 B/A's.

AERIAL REFUELING STORES (ARS)
The ARS program finances Aerial Refueling Systems, EFT and related support equipment. Requirements are determined by an inventory objective, which supports peacetime/wartime needs. Aircraft equipped with the A/A42R-1 Aerial Refueling Stores (ARS) are required for all carrier based tanking missions tanking (primarily recovery focused), strike and yo-yo tanking. Total reliance on the ARS and integration in the F/A-18E/F requires substantial improvements to the existing stores to ensure their viability through 2040. Investigation of major subsystems support the improvement of the ARS to achieve life cycle cost savings,

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0720 / War Consumables | |
| **ID Code** (A=Service Ready, B=Not Service Ready): B | **Program Elements for Code B Items:** 0204164N, 0204161N, 0604329N | **Other Related Program Elements:** 0205633N, 0604659N |
| **Line Item MDAP/MAIS Code:** N/A | | |

mitigation of flight safety risk and reliability enhancements. Advanced Aerial Refueling Store (AARS) is being developed under PE 0604659N Project 3409 using RDTE funds. APN funds will be used to procure AARS kits.

The following equipment is funded as ARS within the War Consumables budget:
- ARS upgrade to the avionics/electrical system
- ARS upgrade to the drogue system
- Replacement of External Fuel Tanks for F/A-18 (A-D variants), required to meet the Fleet Response plan and replace original equipment due to fatigue issues.
- ARS Support Equipment
- External Fuel Tank Support Equipment
- Provides production support, modification, and modernization of ARS and EFT products.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0720 / War Consumables | |
| **ID Code** (A=Service Ready, B=Not Service Ready): B | **Program Elements for Code B Items:** 0204164N, 0204161N, 0604329N | **Other Related Program Elements:** 0205633N, 0604659N |
| **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) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-40a | War Consumables | P-5a, P-21 | | | - / 955.789 | - / 42.035 | - / 32.086 | - / 40.633 | - / - | - / 40.633 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 955.789** | **- / 42.035** | **- / 32.086** | **- / 40.633** | **- / 0.000** | **- / 40.633** |

*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**
FY 2021 provides funding to procure, modify and/or upgrade bomb racks, missile launchers, Aerial Refueling Stores, and associated support. FY 2021 procurements support the following platforms: F/A-18 A-F, EA-18G, AV-8B, P-3C, AH-1W/Z, UH-1N/Y, MH-60R/S, F-35B, and F-35C. FY 2021 increases from FY 2020 to account for BRU-61 rack procurements. BRU-61 procurements are required to field the SDB II on the F-35B/C. Fluctuations in funding from year to year are based on the required modifications and upgrades to support multiple aircraft T/M/S. This may also cause the budget line to exceed the OSD standard inflation rate.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0720 / War Consumables | Aggregated Items Title: War Consumables |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) Common AAE** (1) | | | | | | | | | | | | | | | | | | | | |
| 1.1) Bomb Rack Mod Kits & Install | A | | - | - | 38.303 | - | - | 5.251 | - | - | 3.027 | - | - | 2.916 | - | - | - | - | - | 2.916 |
| 1.2) Launcher Upgrade & Installation | A | | - | - | 54.691 | - | - | 2.605 | - | - | 11.120 | - | - | 2.933 | - | - | - | - | - | 2.933 |
| 1.3) LAU-127(†) | A | | - | - | - | 65,000.00 | 217 | 14.105 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.4) BRU-55 (2)(†) | A | | 107,011.41 | 964 | 103.159 | 112,482.98 | 77 | 8.661 | 109,160.71 | 56 | 6.113 | 110,952.38 | 60 | 6.657 | - | - | - | 110,952.38 | 60 | 6.657 |
| 1.5) BRU-61 (3)(†) | B | | - | - | - | - | - | - | - | - | - | 196,550.00 | 80 | 15.724 | - | - | - | 196,550.00 | 80 | 15.724 |
| 1.6) ILS | A | | - | - | 15.243 | - | - | 1.184 | - | - | 2.720 | - | - | 2.777 | - | - | - | - | - | 2.777 |
| 1.7) Product Improvement | A | | - | - | 41.108 | - | - | 1.274 | - | - | 1.025 | - | - | 1.044 | - | - | - | - | - | 1.044 |
| 1.8) Product Engineering | A | | - | - | 48.743 | - | - | 1.176 | - | - | 1.473 | - | - | 1.508 | - | - | - | - | - | 1.508 |
| 1.9) Various (4) | A | | - | - | 380.044 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 1) Common AAE*** | | | **-** | **-** | ***681.291*** | **-** | **-** | ***34.256*** | **-** | **-** | ***25.478*** | **-** | **-** | ***33.559*** | **-** | **-** | **-** | **-** | **-** | ***33.559*** |
| **2) Aerial Refueling Stores** (5) | | | | | | | | | | | | | | | | | | | | |
| 2.1) External Fuel Tanks | A | | 41,084.21 | 190 | 7.806 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2.2) Aerial Refueling Stores | A | | - | - | 79.842 | - | - | 5.268 | - | - | 4.668 | - | - | 5.054 | - | - | - | - | - | 5.054 |
| 2.4) Product Support | A | | - | - | 24.890 | - | - | 2.511 | - | - | 1.940 | - | - | 2.020 | - | - | - | - | - | 2.020 |
| 2.5) Various | A | | - | - | 161.960 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 2) Aerial Refueling Stores*** | | | **-** | **-** | ***274.498*** | **-** | **-** | ***7.779*** | **-** | **-** | ***6.608*** | **-** | **-** | ***7.074*** | **-** | **-** | **-** | **-** | **-** | ***7.074*** |
| **Total** | | | **-** | **-** | **955.789** | **-** | **-** | **42.035** | **-** | **-** | **32.086** | **-** | **-** | **40.633** | **-** | **-** | **-** | **-** | **-** | **40.633** |

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

(†) indicates the presence of a P-5a

**Footnotes:**

(1) Fluctuations in funding from year to year are based on the required modifications and upgrades to support multiple aircraft T/M/S. This may also causes the budget line to exceed the OSD standard inflation rate.

(2) The unit cost of the BRU-55 will increase more than inflation due to new configuration of the BRU-55 (from BRU-55A/A to BRU-55B/A) to support Small Diameter Bomb (SDB) II. Some parts, such as the umbilical cables, have doubled in price.

(3) FY 2020 reflects Congressional reduction of $9.0M for BRU-61 previously funded. Due to changes in the F-35 B/C fielding schedule, initial procurement of BRU-61 is now required in FY 2021. Funds will be used to address launcher issues impacting aircraft readiness.

(4) The amount identified against this cost element reflects total prior year funding associated with equipment no longer procured.

(5) Fluctuations in funding from year to year are based on the required modifications and upgrades to support multiple aircraft T/M/S. This may also causes the budget line to exceed the OSD standard inflation rate.

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0720 / War Consumables | Aggregated Items: War Consumables |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1) Common AAE** | | | | | | | | | | | | |
| 1.3) LAU-127 (†) | | 2019 | Marvin Eng. / Inglewood, CA | SS / FFP | NAVAIR | Aug 2019 | Aug 2021 | 217 | 65,000.00 | Y | | Sep 2018 |
| 1.4) BRU-55 (2)(†) | | 2017 | ITT / Amityville, NY | SS / FFP | NAVAIR | Apr 2017 | Jul 2019 | 219 | 106,123.29 | Y | | Apr 2016 |
| 1.4) BRU-55 (2)(†) | | 2018 | ITT / Amityville, NY | SS / FFP | NAVAIR | Nov 2017 | Jul 2020 | 207 | 105,750.00 | Y | | Apr 2016 |
| 1.4) BRU-55 (2)(†) | | 2019 | ITT / Amityville, NY | SS / FFP | NAVAIR | Nov 2018 | Jul 2021 | 77 | 112,482.98 | Y | | Apr 2016 |
| 1.4) BRU-55 (2)(†) | | 2020 | ITT / Amityville, NY | SS / FFP | NAVAIR | Nov 2019 | Jul 2022 | 56 | 109,160.71 | Y | | Apr 2016 |
| 1.4) BRU-55 (2)(†) | | 2021 | ITT / Amityville, NY | SS / FFP | NAVAIR | Nov 2020 | Jul 2023 | 60 | 110,952.38 | Y | | Apr 2016 |
| 1.5) BRU-61 (3)(†) | | 2021 | Boeing Co. / St. Louis, MO | C / TBD | Eglin AFB | Jun 2021 | Oct 2022 | 80 | 196,550.00 | Y | | Jun 2015 |

(†) indicates the presence of a P-21

**Exhibit P-21, Production Schedule:** PB 2021 Navy | **Date:** February 2020

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0720 / War Consumables | **Aggregated Items:** War Consumables

| Items (Units in Each) | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2017 | | | | | | | | | | | | Calendar Year 2018 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2016 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Common AAE** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3) LAU-127 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 27 | 2019 | NAVY | 217 | 0 | 217 | | | | | | | | | | | | | | | | | | | | | | | | | 217 |
| 1.4) BRU-55 (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 538 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | 2017 | NAVY | 219 | 0 | 219 | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 219 |
| | 28 | 2018 | NAVY | 207 | 0 | 207 | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | 207 |
| | 28 | 2019 | NAVY | 77 | 0 | 77 | | | | | | | | | | | | | | | | | | | | | | | | | 77 |
| | 28 | 2020 | NAVY | 56 | 0 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | 56 |
| | 28 | 2021 | NAVY | 60 | 0 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | 60 |
| 1.5) BRU-61 (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 29 | 2021 | NAVY | 80 | 0 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | 80 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** PB 2021 Navy | **Date:** February 2020

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0720 / War Consumables | **Aggregated Items:** War Consumables

| Items (Units in Each) | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | Calendar Year 2020 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Common AAE** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3) LAU-127 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 27 | 2019 | NAVY | 217 | 0 | 217 | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | 217 |
| 1.4) BRU-55 (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 538 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | 2017 | NAVY | 219 | 0 | 219 | - | - | - | - | - | - | - | - | - | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | | | | 0 |
| | 28 | 2018 | NAVY | 207 | 0 | 207 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 18 | 18 | 18 | 153 |
| | 28 | 2019 | NAVY | 77 | 0 | 77 | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 77 |
| | 28 | 2020 | NAVY | 56 | 0 | 56 | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | 56 |
| | 28 | 2021 | NAVY | 60 | 0 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | 60 |
| 1.5) BRU-61 (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 29 | 2021 | NAVY | 80 | 0 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | 80 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** PB 2021 Navy | **Date:** February 2020

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0720 / War Consumables | **Aggregated Items:** War Consumables

| Items (Units in Each) | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2021 | | | | | | | | | | | | Calendar Year 2022 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Common AAE** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3) LAU-127 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 27 | 2019 | NAVY | 217 | 0 | 217 | - | - | - | - | - | - | - | - | - | - | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 17 | | | | | | 0 |
| 1.4) BRU-55 (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 538 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | 2017 | NAVY | 219 | 219 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 28 | 2018 | NAVY | 207 | 54 | 153 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | | | | | | | | | | | | | | | | 0 |
| | 28 | 2019 | NAVY | 77 | 0 | 77 | - | - | - | - | - | - | - | - | - | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | 0 |
| | 28 | 2020 | NAVY | 56 | 0 | 56 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 5 | 5 | 41 |
| | 28 | 2021 | NAVY | 60 | 0 | 60 | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 60 |
| 1.5) BRU-61 (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 29 | 2021 | NAVY | 80 | 0 | 80 | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 80 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** PB 2021 Navy | **Date:** February 2020

**Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0720 / War Consumables | **Aggregated Items:** War Consumables

| Items (Units in Each) | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2023 | | | | | | | | | | | | Calendar Year 2024 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Common AAE** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3) LAU-127 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 27 | 2019 | NAVY | 217 | 217 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1.4) BRU-55 (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 538 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | 2017 | NAVY | 219 | 219 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 28 | 2018 | NAVY | 207 | 207 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 28 | 2019 | NAVY | 77 | 77 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 28 | 2020 | NAVY | 56 | 15 | 41 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 1 | | | | | | | | | | | | | | | | 0 |
| | 28 | 2021 | NAVY | 60 | 0 | 60 | - | - | - | - | - | - | - | - | - | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | 0 |
| 1.5) BRU-61 (3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 29 | 2021 | NAVY | 80 | 0 | 80 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 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 | |

| Exhibit P-21, Production Schedule: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0720 / War Consumables | **Aggregated Items:** War Consumables |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | 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 | Marvin Eng. - Inglewood, CA | 120 | 180 | 300 | 18 | 0 | 18 | 18 | 0 | 0 | 0 | 0 |
| 2 | ITT - Amityville, NY | 60 | 180 | 300 | 0 | 2 | 24 | 26 | 0 | 2 | 32 | 34 |
| 3 | Boeing Co. - St. Louis, MO | 20 | 130 | 240 | 18 | 0 | 16 | 16 | 0 | 9 | 16 | 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).

| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | Date: February 2020 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0725 / Other Production Charges |

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

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

| Resource Summary | Prior Years | FY 2019 | FY 2020 | 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)* | 206.544 | 1.444 | 0.000 | 21.194 | 0.000 | 21.194 | 21.602 | 22.054 | 22.498 | 22.948 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 206.544 | 1.444 | 0.000 | 21.194 | 0.000 | 21.194 | 21.602 | 22.054 | 22.498 | 22.948 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **206.544** | **1.444** | **0.000** | **21.194** | **0.000** | **21.194** | **21.602** | **22.054** | **22.498** | **22.948** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Other Production Charges line provides funds for miscellaneous production support and testing services, aircraft pods, and instrumentation packages supporting tactical aircrew combat training and mobile sea range systems. The budget request supports the following efforts:

TACTICAL COMBAT TRAINING SYSTEM (TCTS):
The TCTS program will procure fixed, transportable and mobile range equipment for the Navy for both shore-based (aircrew training) and deployable (ship/aircrew training) applications. TCTS instrumentation will transmit and track instrumented exercise participants and events (e.g., weapons engagements), and provide accurate, realistic, and timely exercise feedback. TCTS is building on technology developed for existing tactical training range systems. Increment I procurement primarily acquires airborne instrumentation Participant Subsystems (PS) for F/A-18 and other tactical aircraft via Airborne Subsystems (AS). Beginning in FY 2021, Increment II will procure new PS to include Airborne Subsystem (AS) to provide encryption capability for Fleet training exercises. The program will also procure Peculiar Support Equipment (PSE).

| **Exhibit P-40, Budget Line Item Justification:** PB 2021 Navy | | **Date:** February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0725 / Other Production Charges | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibits Schedule | | | | | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-40a | Other Production Charges | P-5a, P-21 | | | - / 206.544 | - / 1.444 | - / - | - / 21.194 | - / - | - / 21.194 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 206.544** | **- / 1.444** | **- / 0.000** | **- / 21.194** | **- / 0.000** | **- / 21.194** |

*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**
Funds in FY21 will provide initial encryption capability for Fleet training exercises. Tactical Combat Training System Increment II will procure 67 Airborne Subsystem (AS) and one unit of Peculiar Support Equipment (PSE).

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0725 / Other Production Charges | **Aggregated Items Title:** Other Production Charges |

| 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 ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) | Unit Cost ($) | Qty (Each) | Total Cost ($ M) |
| **1) Tactical Combat Training System** | | | | | | | | | | | | | | | | | | | | |
| 1.1) Airborne Subsystem (AS) (1)(†) | A | | - | - | 96.267 | - | - | - | - | - | - | 271,000.00 | 67 | 18.157 | - | - | - | 271,000.00 | 67 | 18.157 |
| 1.4) TCTS Inc II Peculiar Support Equipment (PSE)(†) | A | | - | - | - | - | - | - | - | - | - | 462,000.00 | 1 | 0.462 | - | - | - | 462,000.00 | 1 | 0.462 |
| 1.5) TCTS Increment I Block Upgrade | A | | - | - | 10.091 | - | - | 0.575 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.6) Production Engineering (2) | A | | - | - | 16.870 | - | - | 0.644 | - | - | - | - | - | 1.580 | - | - | - | - | - | 1.580 |
| 1.7) Acceptance Test (3) | A | | - | - | 7.092 | - | - | 0.192 | - | - | - | - | - | 0.630 | - | - | - | - | - | 0.630 |
| 1.8) Production Support (4) | A | | - | - | 0.377 | - | - | 0.033 | - | - | - | - | - | 0.365 | - | - | - | - | - | 0.365 |
| 1.9) Non Recurring | A | | - | - | 75.847 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: 1) Tactical Combat Training System*** | | | **-** | **-** | ***206.544*** | **-** | **-** | ***1.444*** | **-** | **-** | **-** | **-** | **-** | ***21.194*** | **-** | **-** | **-** | **-** | **-** | ***21.194*** |
| **Total** | | | **-** | **-** | **206.544** | **-** | **-** | **1.444** | **-** | **-** | **-** | **-** | **-** | **21.194** | **-** | **-** | **-** | **-** | **-** | **21.194** |

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

(†) indicates the presence of a P-5a

**Footnotes:**

(1) Airborne Subsystem (AS): Changes to quantities and unit costs for procurements beginning in FY21 reflect detailed breakout of form factors, latest cost estimates, and Fleet fielding plan.

(2) Production Engineering includes costs previously broken out under a separate line as Integrated Logistics Support. Consolidation increases Program Office efficiency and better aligns program technical support costs in accordance with DoD Financial Management Regulations (FMR) guidance. Increase of funds in FY 2021 will provide production engineering support associated with the procurement of 67 Airborne Subsystem (AS) and one unit of Peculiar Support Equipment (PSE).

(3) Increase of funds in FY 2021 will provide test support associated with the procurement of 67 Airborne Subsystem (AS) and one unit of Peculiar Support Equipment (PSE).

(4) Increase of funds in FY 2021 will provide production support associated with the procurement of 67 Airborne Subsystem (AS) and one unit of Peculiar Support Equipment (PSE).

| Exhibit P-5a, Procurement History and Planning: PB 2021 Navy | | Date: February 2020 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1 | P-1 Line Item Number / Title: 0725 / Other Production Charges | Aggregated Items: Other Production Charges |

| Item Number / Title [DODIC] | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1) Tactical Combat Training System** | | | | | | | | | | | | |
| 1.1) Airborne Subsystem (AS) (1)(†) | | 2021 | Collins Aerospace / Cedar Rapids, IA | C / FPIF | NAWCTSD | Apr 2021 | Apr 2022 | 67 | 271,000.00 | Y | | Oct 2020 |
| 1.4) TCTS Inc II Peculiar Support Equipment (PSE) | | 2021 | Collins Aerospace / Cedar Rapids, IA | C / FPIF | NAWCTSD | Apr 2021 | Oct 2021 | 1 | 462,000.00 | Y | | Oct 2020 |

(†) indicates the presence of a P-21

| **Exhibit P-21, Production Schedule:** PB 2021 Navy | | **Date:** February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0725 / Other Production Charges | **Aggregated Items:** Other Production Charges |

| Items (Units in Each) | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | Fiscal Year 2022 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2021 | | | | | | | | | | | | Calendar Year 2022 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2020 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Tactical Combat Training System** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1) Airborne Subsystem (AS) (1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | 2021 | NAVY | 67 | 0 | 67 | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | 10 | 10 | 10 | 10 | 10 | 10 | 7 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** PB 2021 Navy | | **Date:** February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 1506N / 07 / 1 | **P-1 Line Item Number / Title:** 0725 / Other Production Charges | **Aggregated Items:** Other Production Charges |

| Items (Units in Each) | | | | | | | Fiscal Year 2023 | | | | | | | | | | | | Fiscal Year 2024 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2023 | | | | | | | | | | | | Calendar Year 2024 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2022 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| **1) Tactical Combat Training System** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1) Airborne Subsystem (AS) [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 30 | 2021 | NAVY | 67 | 60 | 7 | 7 | | | | | | | | | | | | | | | | | | | | | | | | 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 | |

| **Exhibit P-21, Production Schedule:** PB 2021 Navy | | **Date:** February 2020 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N / 07 / 1 | **P-1 Line Item Number / Title:**<br>0725 / Other Production Charges | **Aggregated Items:**<br>Other Production Charges |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2021 | 1-8-5 For 2021 | MAX For 2021 | 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 | Collins Aerospace - Cedar Rapids, IA | 22 | 156 | 180 | 0 | 6 | 12 | 18 | 0 | 6 | 12 | 18 |

"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 Navy | Date: February 2020 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0735 / Special Support Equipment |

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

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

| Resource Summary | Prior Years | FY 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)* | 1,534.110 | 49.489 | 135.740 | 155.179 | 0.000 | 155.179 | 334.795 | 364.835 | 274.558 | 218.530 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,534.110 | 49.489 | 135.740 | 155.179 | 0.000 | 155.179 | 334.795 | 364.835 | 274.558 | 218.530 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,534.110** | **49.489** | **135.740** | **155.179** | **0.000** | **155.179** | **334.795** | **364.835** | **274.558** | **218.530** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Details of this P-1 item are classified.

**Justification:**

Justification of this request is provided separately.

This line item is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | Date: February 2020 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0740 / First Destination Transportation |

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

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

| Resource Summary | Prior Years | FY 2019 | FY 2020 | 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)* | 88.271 | 1.951 | 0.000 | 2.121 | 0.000 | 2.121 | 1.948 | 1.576 | 1.611 | 1.644 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 88.271 | 1.951 | 0.000 | 2.121 | 0.000 | 2.121 | 1.948 | 1.576 | 1.611 | 1.644 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **88.271** | **1.951** | **0.000** | **2.121** | **0.000** | **2.121** | **1.948** | **1.576** | **1.611** | **1.644** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line finances the movement of newly procured equipment and material from the contractor's plant to the initial point of receipt by the Government.

**Justification:**

FY 2021 funds the First Destination Transportation requirements.

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Navy | Date: February 2020 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>1506N: Aircraft Procurement, Navy / BA 07: Aircraft Support Equip & Facilities / BSA 1: Aircraft Support Equip & Facilities | **P-1 Line Item Number / Title:**<br>0790 / Cancelled Account Adjustments |

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

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

| Resource Summary | Prior Years | FY 2019 | FY 2020 | 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)* | 0.000 | 0.302 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.302 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 0.000 | 0.302 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.302 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **0.000** | **0.302** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **-** | **0.302** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Dollars)* | - | - | - | - | - | - | - | - | - | - | - | - |

**Description:**
This line finances cancelled account adjustments.

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