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**Department of Defense
Fiscal Year (FY) 2019 Budget Estimates**

February 2018



Navy

Justification Book Volume 4 of 4

Aircraft Procurement, Navy

Budget Activity 07

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The estimated cost for this report for the Department of the Navy (DON) is \$4,597.

The estimated total cost for supporting the DON budget justification material is approximately \$1,643,653 for the 2018 fiscal year. This includes \$79,753 in supplies and \$1,563,900 in labor.

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Department of Defense Appropriations Act, 2019

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, \$19,121,918,000, to remain available for obligation until September 30, 2021.

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Department of the Navy
 FY 2019 President's Budget
 Exhibit P-1 FY 2019 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

Appropriation -----	FY 2017 (Base + OCO) -----	FY 2018 PB Request with CR Adj Base -----	FY 2018 Total PB Requests* with CR Adj Base -----	FY 2018 PB Request with CR Adj OCO -----
Aircraft Procurement, Navy	16,834,587	16,119,051	16,019,051	682,187
Total Department of the Navy	16,834,587	16,119,051	16,019,051	682,187

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation -----	FY 2018 Total PB Requests+ with CR Adj OCO -----	FY 2018 Emergency Requests** Emergency -----	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req Emergency -----
Aircraft Procurement, Navy	682,187			
Total Department of the Navy	682,187			

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation -----	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** -----	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency -----
Aircraft Procurement, Navy	16,701,238		16,701,238
Total Department of the Navy	16,701,238		16,701,238

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation -----	FY 2019 Base -----	FY 2019 OCO -----	FY 2019 Total -----
Aircraft Procurement, Navy	19,041,799	80,119	19,121,918
Total Department of the Navy	19,041,799	80,119	19,121,918

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: Aircraft Procurement, Navy

Budget Activity -----	FY 2017 (Base + OCO) -----	FY 2018 PB Request with CR Adj Base -----	FY 2018 Total PB Requests* with CR Adj Base -----	FY 2018 PB Request with CR Adj OCO -----
01. Combat Aircraft	10,882,360	9,271,650	9,271,650	
02. Airlift Aircraft	207,000			
03. Trainer Aircraft	5,849			
04. Other Aircraft	820,215	784,818	784,818	3,900
05. Modification of Aircraft	2,741,950	2,813,635	2,713,635	134,087
06. Aircraft Spares and Repair Parts	1,712,571	1,681,914	1,681,914	18,850
07. Aircraft Support Equip & Facilities	464,642	504,218	504,218	463
20. Undistributed		1,062,816	1,062,816	524,887
Total Aircraft Procurement, Navy	16,834,587	16,119,051	16,019,051	682,187

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: Aircraft Procurement, Navy

Budget Activity -----	FY 2018 Total PB Requests+ with CR Adj OCO -----	FY 2018 Emergency Requests** Emergency -----	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req Emergency -----
01. Combat Aircraft				
02. Airlift Aircraft				
03. Trainer Aircraft				
04. Other Aircraft	3,900			
05. Modification of Aircraft	134,087			
06. Aircraft Spares and Repair Parts	18,850			
07. Aircraft Support Equip & Facilities	463			
20. Undistributed	524,887			
Total Aircraft Procurement, Navy	682,187			

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: Aircraft Procurement, Navy

Budget Activity -----	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** -----	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency -----
01. Combat Aircraft	9,271,650		9,271,650
02. Airlift Aircraft			
03. Trainer Aircraft			
04. Other Aircraft	788,718		788,718
05. Modification of Aircraft	2,847,722		2,847,722
06. Aircraft Spares and Repair Parts	1,700,764		1,700,764
07. Aircraft Support Equip & Facilities	504,681		504,681
20. Undistributed	1,587,703		1,587,703
Total Aircraft Procurement, Navy	16,701,238		16,701,238

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: Aircraft Procurement, Navy

Budget Activity -----	FY 2019 Base -----	FY 2019 OCO -----	FY 2019 Total -----
01. Combat Aircraft	11,728,769		11,728,769
02. Airlift Aircraft	206,000		206,000
03. Trainer Aircraft			
04. Other Aircraft	1,616,353	35,065	1,651,418
05. Modification of Aircraft	3,156,663	45,054	3,201,717
06. Aircraft Spares and Repair Parts	1,792,920		1,792,920
07. Aircraft Support Equip & Facilities	541,094		541,094
20. Undistributed			
Total Aircraft Procurement, Navy	19,041,799	80,119	19,121,918

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj		FY 2018 Total PB Requests* with CR Adj		FY 2018 PB Request with CR Adj		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											
Combat Aircraft											
1	F/A-18E/F (Fighter) Hornet	A	14	(1,146,912)	14	(1,253,120)	14	(1,253,120)			U
	Less: Advance Procurement (PY)					(-52,974)		(-52,974)			U
				-----		-----		-----		-----	
				1,146,912		1,200,146		1,200,146			
2	F/A-18E/F (Fighter) Hornet										
	Advance Procurement (CY)					52,971		52,971			U
	C (FY 2018 for FY 2019) (M)					(52,971)		(52,971)			
	C (FY 2019 for FY 2020) (M)										
3	Joint Strike Fighter CV	A	8	(1,360,880)	4	(663,232)	4	(663,232)			U
	Less: Advance Procurement (PY)					(-48,630)		(-80,908)			U
				-----		-----		-----		-----	
				1,312,250		582,324		582,324			
4	Joint Strike Fighter CV										
	Advance Procurement (CY)			80,908		263,112		263,112			U
	C (FY 2017 for FY 2018) (M)			(80,908)							
	C (FY 2018 for FY 2019) (M)					(196,411)		(196,411)			
	C (FY 2018 for FY 2020) (M)					(66,701)		(66,701)			
	C (FY 2019 for FY 2020) (M)										
5	JSF STOVL		18	(2,504,927)	20	(2,631,787)	20	(2,631,787)			U
	Less: Advance Procurement (PY)					(-203,060)		(-233,648)			U
				-----		-----		-----		-----	
				2,301,867		2,398,139		2,398,139			
6	JSF STOVL										
	Advance Procurement (CY)			233,648		413,450		413,450			U
	C (FY 2017 for FY 2018) (M)			(233,648)							
	C (FY 2018 for FY 2019) (M)					(322,264)		(322,264)			
	C (FY 2018 for FY 2020) (M)					(91,186)		(91,186)			
	C (FY 2019 for FY 2020) (M)										

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

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests** Emergency		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Combat Aircraft											

Combat Aircraft											
1	F/A-18E/F (Fighter) Hornet	A									U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
2	F/A-18E/F (Fighter) Hornet										U
	Advance Procurement (CY)										U
	C (FY 2018 for FY 2019) (M)										
	C (FY 2019 for FY 2020) (M)										
3	Joint Strike Fighter CV	A									U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
4	Joint Strike Fighter CV										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2018 for FY 2020) (M)										
	C (FY 2019 for FY 2020) (M)										
5	JSF STOVL										U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
6	JSF STOVL										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2018 for FY 2020) (M)										
	C (FY 2019 for FY 2020) (M)										

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**		FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req with CR Adj Base + OCO + Emergency		S e c -	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
Budget Activity 01: Combat Aircraft										

Combat Aircraft										
1	F/A-18E/F (Fighter) Hornet	A	14	(1,253,120)			14	(1,253,120)	U	
	Less: Advance Procurement (PY)			(-52,974)				(-52,974)	U	
				-----		-----		-----		
				1,200,146				1,200,146		
2	F/A-18E/F (Fighter) Hornet									
	Advance Procurement (CY)			52,971				52,971	U	
	C (FY 2018 for FY 2019) (M)			(52,971)				(52,971)		
	C (FY 2019 for FY 2020) (M)									
3	Joint Strike Fighter CV	A	4	(663,232)			4	(663,232)	U	
	Less: Advance Procurement (PY)			(-80,908)				(-80,908)	U	
				-----		-----		-----		
				582,324				582,324		
4	Joint Strike Fighter CV									
	Advance Procurement (CY)			263,112				263,112	U	
	C (FY 2017 for FY 2018) (M)									
	C (FY 2018 for FY 2019) (M)			(196,411)				(196,411)		
	C (FY 2018 for FY 2020) (M)			(66,701)				(66,701)		
	C (FY 2019 for FY 2020) (M)									
5	JSF STOVL		20	(2,631,787)			20	(2,631,787)	U	
	Less: Advance Procurement (PY)			(-233,648)				(-233,648)	U	
				-----		-----		-----		
				2,398,139				2,398,139		
6	JSF STOVL									
	Advance Procurement (CY)			413,450				413,450	U	
	C (FY 2017 for FY 2018) (M)									
	C (FY 2018 for FY 2019) (M)			(322,264)				(322,264)		
	C (FY 2018 for FY 2020) (M)			(91,186)				(91,186)		
	C (FY 2019 for FY 2020) (M)									

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Department of the Navy
FY 2019 President's Budget
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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	FY 2019 Base Cost	FY 2019 OCO Quantity	FY 2019 OCO Cost	FY 2019 Total Quantity	FY 2019 Total Cost	S e c
Budget Activity 01: Combat Aircraft									

Combat Aircraft									
1	F/A-18E/F (Fighter) Hornet	A	24	(1,990,524)			24	(1,990,524)	U
	Less: Advance Procurement (PY)			(-52,971)				(-52,971)	U
				-----		-----		-----	
				1,937,553				1,937,553	
2	F/A-18E/F (Fighter) Hornet								
	Advance Procurement (CY)			58,799				58,799	U
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(58,799)				(58,799)	
3	Joint Strike Fighter CV	A	9	(1,341,369)			9	(1,341,369)	U
	Less: Advance Procurement (PY)			(-196,411)				(-196,411)	U
				-----		-----		-----	
				1,144,958				1,144,958	
4	Joint Strike Fighter CV								
	Advance Procurement (CY)			140,010				140,010	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2018 for FY 2020) (M)								
	C (FY 2019 for FY 2020) (M)			(140,010)				(140,010)	
5	JSF STOVL		20	(2,635,111)			20	(2,635,111)	U
	Less: Advance Procurement (PY)			(-322,264)				(-322,264)	U
				-----		-----		-----	
				2,312,847				2,312,847	
6	JSF STOVL								
	Advance Procurement (CY)			228,492				228,492	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2018 for FY 2020) (M)								
	C (FY 2019 for FY 2020) (M)			(228,492)				(228,492)	

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity Cost	FY 2018 PB Request with CR Adj Base Quantity Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity Cost	FY 2018 PB Request with CR Adj OCO Quantity Cost	S e c				
7	CH-53K (Heavy Lift)	A	2	(385,915)	4	(655,970)	4	(655,970)			U
	Less: Advance Procurement (PY)			(-41,300)		(-88,365)		(-88,365)			U
				-----		-----		-----			
				344,615		567,605		567,605			
8	CH-53K (Heavy Lift)										
	Advance Procurement (CY)			71,869		147,046		147,046			U
	C (FY 2017 for FY 2018) (M)			(71,869)							
	C (FY 2018 for FY 2019) (M)					(147,046)		(147,046)			
	C (FY 2019 for FY 2020) (M)										
9	V-22 (Medium Lift)		19	(1,534,476)	6	(697,078)	6	(697,078)			U
	Less: Advance Procurement (PY)			(-56,923)		(-19,674)		(-19,674)			U
				-----		-----		-----			
				1,477,553		677,404		677,404			
10	V-22 (Medium Lift)										
	Advance Procurement (CY)			19,674		27,422		27,422			U
	C (FY 2017 for FY 2018) (M)			(19,674)							
	C (FY 2018 for FY 2019) (M)					(27,422)		(27,422)			
	C (FY 2019 for FY 2020) (M)										
11	H-1 Upgrades (UH-1Y/AH-1Z)	A	26	(861,946)	22	(735,661)	22	(735,661)			U
	Less: Advance Procurement (PY)			(-56,168)		(-57,232)		(-57,232)			U
				-----		-----		-----			
				805,778		678,429		678,429			
12	H-1 Upgrades (UH-1Y/AH-1Z)										
	Advance Procurement (CY)			49,208		42,082		42,082			U
	C (FY 2017 for FY 2018) (M)			(49,208)							
	C (FY 2018 for FY 2019) (M)					(42,082)		(42,082)			
13	MH-60R (MYP)	A		53,175							U

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests** Emergency		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
7	CH-53K (Heavy Lift)	A									U
	Less: Advance Procurement (PY)										U
8	CH-53K (Heavy Lift)										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										U
	C (FY 2018 for FY 2019) (M)										U
	C (FY 2019 for FY 2020) (M)										U
9	V-22 (Medium Lift)										U
	Less: Advance Procurement (PY)										U
10	V-22 (Medium Lift)										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										U
	C (FY 2018 for FY 2019) (M)										U
	C (FY 2019 for FY 2020) (M)										U
11	H-1 Upgrades (UH-1Y/AH-1Z)	A									U
	Less: Advance Procurement (PY)										U
12	H-1 Upgrades (UH-1Y/AH-1Z)										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										U
	C (FY 2018 for FY 2019) (M)										U
13	MH-60R (MYP)	A									U

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**		FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req with CR Adj Base + OCO + Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
7	CH-53K (Heavy Lift) Less: Advance Procurement (PY)	A	4	(655,970) (-88,365)			4	(655,970) (-88,365)	U
				567,605				567,605	
8	CH-53K (Heavy Lift) Advance Procurement (CY) C (FY 2017 for FY 2018) (M) C (FY 2018 for FY 2019) (M) C (FY 2019 for FY 2020) (M)			147,046 (147,046)				147,046 (147,046)	U
9	V-22 (Medium Lift) Less: Advance Procurement (PY)		6	(697,078) (-19,674)			6	(697,078) (-19,674)	U
				677,404				677,404	
10	V-22 (Medium Lift) Advance Procurement (CY) C (FY 2017 for FY 2018) (M) C (FY 2018 for FY 2019) (M) C (FY 2019 for FY 2020) (M)			27,422 (27,422)				27,422 (27,422)	U
11	H-1 Upgrades (UH-1Y/AH-1Z) Less: Advance Procurement (PY)	A	22	(735,661) (-57,232)			22	(735,661) (-57,232)	U
				678,429				678,429	
12	H-1 Upgrades (UH-1Y/AH-1Z) Advance Procurement (CY) C (FY 2017 for FY 2018) (M) C (FY 2018 for FY 2019) (M)			42,082 (42,082)				42,082 (42,082)	U
13	MH-60R (MYP)	A							U

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Department of the Navy
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
7	CH-53K (Heavy Lift)	A	8	(1,260,850)			8	(1,260,850)	U
	Less: Advance Procurement (PY)			(-147,046)				(-147,046)	U
				-----		-----		-----	
				1,113,804				1,113,804	
8	CH-53K (Heavy Lift)								
	Advance Procurement (CY)			161,079				161,079	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(161,079)				(161,079)	
9	V-22 (Medium Lift)		7	(833,759)			7	(833,759)	U
	Less: Advance Procurement (PY)			(-27,422)				(-27,422)	U
				-----		-----		-----	
				806,337				806,337	
10	V-22 (Medium Lift)								
	Advance Procurement (CY)			36,955				36,955	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(36,955)				(36,955)	
11	H-1 Upgrades (UH-1Y/AH-1Z)	A	25	(862,837)			25	(862,837)	U
	Less: Advance Procurement (PY)			(-42,082)				(-42,082)	U
				-----		-----		-----	
				820,755				820,755	
12	H-1 Upgrades (UH-1Y/AH-1Z)								
	Advance Procurement (CY)								U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
13	MH-60R (MYP)	A							U

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

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj		FY 2018 Total PB Requests* with CR Adj		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
14	P-8A Poseidon	A	11	(2,063,245)	7	(1,376,124)	7	(1,376,124)			U
	Less: Advance Procurement (PY)			(-243,007)		(-130,873)		(-130,873)			U
				-----		-----		-----			
				1,820,238		1,245,251		1,245,251			
15	P-8A Poseidon										
	Advance Procurement (CY)			123,140		140,333		140,333			U
	C (FY 2017 for FY 2018) (M)			(123,140)							
	C (FY 2018 for FY 2019) (M)					(140,333)		(140,333)			
	C (FY 2019 for FY 2020) (M)										
16	E-2D Adv Hawkeye	A	6	(1,154,569)	5	(1,004,913)	5	(1,004,913)			U
	Less: Advance Procurement (PY)			(-238,086)		(-271,003)		(-271,003)			U
				-----		-----		-----			
				916,483		733,910		733,910			
17	E-2D Adv Hawkeye										
	Advance Procurement (CY)			125,042		102,026		102,026			U
	C (FY 2017 for FY 2018) (M)			(125,042)							
	C (FY 2018 for FY 2019) (M)					(102,026)		(102,026)			
	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)										
				-----		-----		-----			
	Total Combat Aircraft			10,882,360		9,271,650		9,271,650			
Budget Activity 02: Airlift Aircraft											

Airlift Aircraft											
18	C-40A	A	2	207,000							U
				-----		-----		-----			
	Total Airlift Aircraft			207,000							

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests** Emergency		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
14	P-8A Poseidon	A									U
	Less: Advance Procurement (PY)										U
15	P-8A Poseidon										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2019 for FY 2020) (M)										
16	E-2D Adv Hawkeye	A									U
	Less: Advance Procurement (PY)										U
17	E-2D Adv Hawkeye										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	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)										
Total Combat Aircraft											
Budget Activity 02: Airlift Aircraft											

Airlift Aircraft											
18	C-40A	A									U
Total Airlift Aircraft											

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Total Obligational Authority
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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**		FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req with CR Adj Base + OCO + Emergency		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
14	P-8A Poseidon	A	7	(1,376,124)			7	(1,376,124)	U	
	Less: Advance Procurement (PY)			(-130,873)				(-130,873)	U	
				1,245,251				1,245,251		
15	P-8A Poseidon									
	Advance Procurement (CY)			140,333				140,333	U	
	C (FY 2017 for FY 2018) (M)									
	C (FY 2018 for FY 2019) (M)			(140,333)				(140,333)		
	C (FY 2019 for FY 2020) (M)									
16	E-2D Adv Hawkeye	A	5	(1,004,913)			5	(1,004,913)	U	
	Less: Advance Procurement (PY)			(-271,003)				(-271,003)	U	
				733,910				733,910		
17	E-2D Adv Hawkeye									
	Advance Procurement (CY)			102,026				102,026	U	
	C (FY 2017 for FY 2018) (M)									
	C (FY 2018 for FY 2019) (M)			(102,026)				(102,026)		
	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)									
	Total Combat Aircraft			9,271,650				9,271,650		
Budget Activity 02: Airlift Aircraft										
Airlift Aircraft										
18	C-40A	A							U	
Total Airlift Aircraft										

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
14	P-8A Poseidon	A	10	(1,950,100)			10	(1,950,100)	U
	Less: Advance Procurement (PY)			(-146,347)				(-146,347)	U
				-----		-----		-----	
				1,803,753				1,803,753	
15	P-8A Poseidon								
	Advance Procurement (CY)			180,000				180,000	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(180,000)				(180,000)	
16	E-2D Adv Hawkeye	A	4	(844,719)			4	(844,719)	U
	Less: Advance Procurement (PY)			(-102,026)				(-102,026)	U
				-----		-----		-----	
				742,693				742,693	
17	E-2D Adv Hawkeye								
	Advance Procurement (CY)			240,734				240,734	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(126,128)				(126,128)	
	C (FY 2019 for FY 2021) (M)			(38,202)				(38,202)	
	C (FY 2019 for FY 2022) (M)			(38,202)				(38,202)	
	C (FY 2019 for FY 2023) (M)			(38,202)				(38,202)	
				-----		-----		-----	
	Total Combat Aircraft			11,728,769				11,728,769	
Budget Activity 02: Airlift Aircraft									

Airlift Aircraft									
18	C-40A	A	2	206,000			2	206,000	U
				-----		-----		-----	
	Total Airlift Aircraft			206,000				206,000	

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj		FY 2018 Total PB Requests* with CR Adj		FY 2018 PB Request with CR Adj		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 03: Trainer Aircraft											
Trainer Aircraft											
19	JPATS	A		5,849							U
Total Trainer Aircraft				5,849							
Budget Activity 04: Other Aircraft											
Other Aircraft											
20	KC-130J	A	2	(151,333)	2	(158,425)	2	(158,425)			U
	Less: Advance Procurement (PY)			(-32,451)		(-28,848)		(-28,848)			U
				118,882		129,577		129,577			
21	KC-130J										
	Advance Procurement (CY)			24,848		25,497		25,497			U
	C (FY 2017 for FY 2018) (M)			(24,848)							
	C (FY 2018 for FY 2019) (M)					(25,497)		(25,497)			
	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)										
22	MQ-4 Triton	A	2	(498,819)	3	(577,778)	3	(577,778)			U
	Less: Advance Procurement (PY)			(-54,577)		(-55,652)		(-55,652)			U
				444,242		522,126		522,126			
23	MQ-4 Triton										
	Advance Procurement (CY)			55,652		57,266		57,266			U
	C (FY 2017 for FY 2018) (M)			(55,652)							
	C (FY 2018 for FY 2019) (M)					(57,266)		(57,266)			
	C (FY 2019 for FY 2020) (M)										

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests** Emergency		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 03: Trainer Aircraft											

Trainer Aircraft											
19	JPATS	A									U
			-----		-----		-----		-----		
Total Trainer Aircraft											
Budget Activity 04: Other Aircraft											

Other Aircraft											
20	KC-130J	A									U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
21	KC-130J										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	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)										
22	MQ-4 Triton	A									U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
23	MQ-4 Triton										U
	Advance Procurement (CY)										U
	C (FY 2017 for FY 2018) (M)										
	C (FY 2018 for FY 2019) (M)										
	C (FY 2019 for FY 2020) (M)										

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**		FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req with CR Adj Base + OCO + Emergency		S e c	
			Quantity	Cost	Quantity	Cost	Quantity	Cost		
Budget Activity 03: Trainer Aircraft										

Trainer Aircraft										
19	JPATS	A							U	
			-----		-----		-----			
Total Trainer Aircraft										
Budget Activity 04: Other Aircraft										

Other Aircraft										
20	KC-130J	A	2	(158,425)			2	(158,425)	U	
	Less: Advance Procurement (PY)			(-28,848)				(-28,848)	U	
				-----				-----		
				129,577				129,577		
21	KC-130J									
	Advance Procurement (CY)			25,497				25,497	U	
	C (FY 2017 for FY 2018) (M)									
	C (FY 2018 for FY 2019) (M)			(25,497)				(25,497)		
	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)									
22	MQ-4 Triton	A	3	(577,778)			3	(577,778)	U	
	Less: Advance Procurement (PY)			(-55,652)				(-55,652)	U	
				-----				-----		
				522,126				522,126		
23	MQ-4 Triton									
	Advance Procurement (CY)			57,266				57,266	U	
	C (FY 2017 for FY 2018) (M)									
	C (FY 2018 for FY 2019) (M)			(57,266)				(57,266)		
	C (FY 2019 for FY 2020) (M)									

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
Budget Activity 03: Trainer Aircraft									

Trainer Aircraft									
19	JPATS	A							U
Total Trainer Aircraft									
Budget Activity 04: Other Aircraft									

Other Aircraft									
20	KC-130J	A	2	(185,930)			2	(185,930)	U
	Less: Advance Procurement (PY)			(-25,497)				(-25,497)	U
				160,433				160,433	
21	KC-130J								
	Advance Procurement (CY)			110,013				110,013	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(34,013)				(34,013)	
	C (FY 2019 for FY 2021) (M)			(20,000)				(20,000)	
	C (FY 2019 for FY 2022) (M)			(24,000)				(24,000)	
	C (FY 2019 for FY 2023) (M)			(32,000)				(32,000)	
22	MQ-4 Triton	A	3	(626,009)			3	(626,009)	U
	Less: Advance Procurement (PY)			(-57,266)				(-57,266)	U
				568,743				568,743	
23	MQ-4 Triton								
	Advance Procurement (CY)			58,522				58,522	U
	C (FY 2017 for FY 2018) (M)								
	C (FY 2018 for FY 2019) (M)								
	C (FY 2019 for FY 2020) (M)			(58,522)				(58,522)	

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Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity	Cost	FY 2018 PB Request with CR Adj Base Quantity	Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity	Cost	FY 2018 PB Request with CR Adj OCO Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
24	MQ-8 UAV	B	5	113,635		49,472		49,472			U
25	STUASL0 UAV		4	62,956		880		880	3,900		U
26	VH-92A Executive Helo										U
	Total Other Aircraft			820,215		784,818		784,818	3,900		

Budget Activity 05: Modification of Aircraft

Modification of Aircraft

27	AEA Systems			50,451		52,960		52,960			U
28	AV-8 Series	A		56,275		43,555		43,555			U
29	Adversary	A		5,191		2,565		2,565			U
30	F-18 Series	A		999,424		1,043,661		943,661			U
31	H-53 Series	A		61,665		38,712		38,712	950		U
32	SH-60 Series	A		122,900		95,333		95,333	15,382		U
33	H-1 Series	A		73,262		101,886		101,886			U
34	EP-3 Series	A		28,186		7,231		7,231	7,220		U
35	P-3 Series	A		2,767		700		700			U
36	E-2 Series	A		26,726		97,563		97,563			U
37	Trainer A/C Series	A		11,271		8,184		8,184			U
38	C-2A	A		18,971		18,673		18,673			U
39	C-130 Series	A		53,667		83,541		83,541			U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO Quantity	Cost	FY 2018 Emergency Requests** Emergency Quantity	Cost	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
24	MQ-8 UAV	B									U
25	STUASLO UAV			3,900							U
26	VH-92A Executive Helo										U
	Total Other Aircraft			3,900							
Budget Activity 05: Modification of Aircraft											

Modification of Aircraft											
27	AEA Systems										U
28	AV-8 Series	A									U
29	Adversary	A									U
30	F-18 Series	A									U
31	H-53 Series	A		950							U
32	SH-60 Series	A		15,382							U
33	H-1 Series	A									U
34	EP-3 Series	A		7,220							U
35	P-3 Series	A									U
36	E-2 Series	A									U
37	Trainer A/C Series	A									U
38	C-2A	A									U
39	C-130 Series	A									U

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** Quantity	Cost	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
24	MQ-8 UAV	B		49,472				49,472	U
25	STUASLO UAV			4,780				4,780	U
26	VH-92A Executive Helo								U
	Total Other Aircraft			788,718				788,718	
Budget Activity 05: Modification of Aircraft									

Modification of Aircraft									
27	AEA Systems			52,960				52,960	U
28	AV-8 Series	A		43,555				43,555	U
29	Adversary	A		2,565				2,565	U
30	F-18 Series	A		943,661				943,661	U
31	H-53 Series	A		39,662				39,662	U
32	SH-60 Series	A		110,715				110,715	U
33	H-1 Series	A		101,886				101,886	U
34	EP-3 Series	A		14,451				14,451	U
35	P-3 Series	A		700				700	U
36	E-2 Series	A		97,563				97,563	U
37	Trainer A/C Series	A		8,184				8,184	U
38	C-2A	A		18,673				18,673	U
39	C-130 Series	A		83,541				83,541	U

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
24	MQ-8 UAV	B		54,761				54,761	U
25	STUASL0 UAV			14,866		35,065		49,931	U
26	VH-92A Executive Helo		6	649,015			6	649,015	U
				-----		-----		-----	
	Total Other Aircraft			1,616,353		35,065		1,651,418	

Budget Activity 05: Modification of Aircraft

Modification of Aircraft

27	AEA Systems			25,277				25,277	U
28	AV-8 Series	A		58,577				58,577	U
29	Adversary	A		14,606				14,606	U
30	F-18 Series	A		1,213,482				1,213,482	U
31	H-53 Series	A		70,997				70,997	U
32	SH-60 Series	A		130,661		4,858		135,519	U
33	H-1 Series	A		87,143				87,143	U
34	EP-3 Series	A		3,633		5,380		9,013	U
35	P-3 Series	A		803				803	U
36	E-2 Series	A		88,780				88,780	U
37	Trainer A/C Series	A		11,660				11,660	U
38	C-2A	A		11,327				11,327	U
39	C-130 Series	A		79,075				79,075	U

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO)		FY 2018 PB Request with CR Adj		FY 2018 Total PB Requests* with CR Adj		FY 2018 PB Request with CR Adj OCO		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
40	FEWSG	A		618		630		630			U
41	Cargo/Transport A/C Series	A		9,822		10,075		10,075			U
42	E-6 Series	A		194,998		223,508		223,508			U
43	Executive Helicopters Series	A		63,754		38,787		38,787			U
44	Special Project Aircraft	A		31,366		8,304		8,304		19,855	U
45	T-45 Series	A		105,150		148,071		148,071			U
46	Power Plant Changes	A		17,871		19,827		19,827			U
47	JPATS Series	A		10,732		27,007		27,007			U
48	Aviation Life Support Mods	A									U
49	Common ECM Equipment	A		236,822		146,642		146,642		75,530	U
50	Common Avionics Changes	A		144,838		123,507		123,507			U
51	Common Defensive Weapon System	A		4,403		2,317		2,317			U
52	ID Systems	A		42,262		49,524		49,524			U
53	P-8 Series			17,946		18,665		18,665			U
54	MAGTF EW for Aviation	A		20,544		10,111		10,111			U
55	MQ-8 Series			19,003		32,361		32,361			U
56	RQ-7 Series			1,534							U
57	V-22 (Tilt/Rotor ACFT) Osprey	B		249,072		228,321		228,321			U
58	Next Generation Jammer (NGJ)	A									U

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Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO Quantity	Cost	FY 2018 Emergency Requests** Emergency Quantity	Cost	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
40	FEWSG	A									U
41	Cargo/Transport A/C Series	A									U
42	E-6 Series	A									U
43	Executive Helicopters Series	A									U
44	Special Project Aircraft	A		19,855							U
45	T-45 Series	A									U
46	Power Plant Changes	A									U
47	JPATS Series	A									U
48	Aviation Life Support Mods	A									U
49	Common ECM Equipment	A		75,530							U
50	Common Avionics Changes	A									U
51	Common Defensive Weapon System	A									U
52	ID Systems	A									U
53	P-8 Series										U
54	MAGTF EW for Aviation	A									U
55	MQ-8 Series										U
56	RQ-7 Series										U
57	V-22 (Tilt/Rotor ACFT) Osprey	B									U
58	Next Generation Jammer (NGJ)	A									U

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(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** Quantity	Cost	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
40	FEWSG	A		630			630		U
41	Cargo/Transport A/C Series	A		10,075			10,075		U
42	E-6 Series	A		223,508			223,508		U
43	Executive Helicopters Series	A		38,787			38,787		U
44	Special Project Aircraft	A		28,159			28,159		U
45	T-45 Series	A		148,071			148,071		U
46	Power Plant Changes	A		19,827			19,827		U
47	JPATS Series	A		27,007			27,007		U
48	Aviation Life Support Mods	A							U
49	Common ECM Equipment	A		222,172			222,172		U
50	Common Avionics Changes	A		123,507			123,507		U
51	Common Defensive Weapon System	A		2,317			2,317		U
52	ID Systems	A		49,524			49,524		U
53	P-8 Series			18,665			18,665		U
54	MAGTF EW for Aviation	A		10,111			10,111		U
55	MQ-8 Series			32,361			32,361		U
56	RQ-7 Series								U
57	V-22 (Tilt/Rotor ACFT) Osprey	B		228,321			228,321		U
58	Next Generation Jammer (NGJ)	A							U

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Total Obligational Authority
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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
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40	FEWSG	A		597				597	U
41	Cargo/Transport A/C Series	A		8,932				8,932	U
42	E-6 Series	A		181,821				181,821	U
43	Executive Helicopters Series	A		23,566				23,566	U
44	Special Project Aircraft	A		7,620		2,165		9,785	U
45	T-45 Series	A		195,475				195,475	U
46	Power Plant Changes	A		21,521				21,521	U
47	JPATS Series	A		27,644				27,644	U
48	Aviation Life Support Mods	A		15,864				15,864	U
49	Common ECM Equipment	A		166,306		9,820		176,126	U
50	Common Avionics Changes	A		117,551				117,551	U
51	Common Defensive Weapon System	A		1,994		3,206		5,200	U
52	ID Systems	A		40,696				40,696	U
53	P-8 Series			71,251				71,251	U
54	MAGTF EW for Aviation	A		11,590				11,590	U
55	MQ-8 Series			37,907				37,907	U
56	RQ-7 Series								U
57	V-22 (Tilt/Rotor ACFT) Osprey	B		214,820				214,820	U
58	Next Generation Jammer (NGJ)	A		952				952	U

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Department of the Navy
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Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity Cost	FY 2018 PB Request with CR Adj Base Quantity Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity Cost	FY 2018 PB Request with CR Adj OCO Quantity Cost	S e c -
59	F-35 STOVL Series	A	24,350	34,963	34,963		U
60	F-35 CV Series	A	21,733	31,689	31,689		U
61	QRC	A	14,376	24,766	24,766	15,150	U
62	MQ-4 Series	A		39,996	39,996		U
63	RQ-21 Series	A					U
Total Modification of Aircraft			2,741,950	2,813,635	2,713,635	134,087	
Budget Activity 06: Aircraft Spares and Repair Parts							

Aircraft Spares and Repair Parts							
64	Spares and Repair Parts	A	1,712,571	1,681,914	1,681,914	18,850	U
Total Aircraft Spares and Repair Parts			1,712,571	1,681,914	1,681,914	18,850	
Budget Activity 07: Aircraft Support Equip & Facilities							

Aircraft Support Equip & Facilities							
65	Common Ground Equipment	A	365,280	388,052	388,052		U
66	Aircraft Industrial Facilities	A	23,718	24,613	24,613	463	U
67	War Consumables	A	36,740	39,614	39,614		U
68	Other Production Charges	A	860	1,463	1,463		U
69	Special Support Equipment	A	36,282	48,500	48,500		U
70	First Destination Transportation	A	1,523	1,976	1,976		U

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Total Obligational Authority
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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO Quantity	Cost	FY 2018 Emergency Requests** Emergency Quantity	Cost	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req Emergency Quantity	Cost	S e c -
59	F-35 STOVL Series	A									U
60	F-35 CV Series	A									U
61	QRC	A		15,150							U
62	MQ-4 Series	A									U
63	RQ-21 Series	A									U
Total Modification of Aircraft				134,087							
Budget Activity 06: Aircraft Spares and Repair Parts											

Aircraft Spares and Repair Parts											
64	Spares and Repair Parts	A		18,850							U
Total Aircraft Spares and Repair Parts				18,850							
Budget Activity 07: Aircraft Support Equip & Facilities											

Aircraft Support Equip & Facilities											
65	Common Ground Equipment	A									U
66	Aircraft Industrial Facilities	A		463							U
67	War Consumables	A									U
68	Other Production Charges	A									U
69	Special Support Equipment	A									U
70	First Destination Transportation	A									U

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** Quantity	Cost	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
59	F-35 STOVL Series	A		34,963				34,963	U
60	F-35 CV Series	A		31,689				31,689	U
61	QRC	A		39,916				39,916	U
62	MQ-4 Series	A		39,996				39,996	U
63	RQ-21 Series	A							U
	Total Modification of Aircraft			2,847,722				2,847,722	
Budget Activity 06: Aircraft Spares and Repair Parts									

Aircraft Spares and Repair Parts									
64	Spares and Repair Parts	A		1,700,764				1,700,764	U
	Total Aircraft Spares and Repair Parts			1,700,764				1,700,764	
Budget Activity 07: Aircraft Support Equip & Facilities									

Aircraft Support Equip & Facilities									
65	Common Ground Equipment	A		388,052				388,052	U
66	Aircraft Industrial Facilities	A		25,076				25,076	U
67	War Consumables	A		39,614				39,614	U
68	Other Production Charges	A		1,463				1,463	U
69	Special Support Equipment	A		48,500				48,500	U
70	First Destination Transportation	A		1,976				1,976	U

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
59	F-35 STOVL Series	A		36,618			36,618		U
60	F-35 CV Series	A		21,236			21,236		U
61	QRC	A		101,499		2,410	103,909		U
62	MQ-4 Series	A		48,278			48,278		U
63	RQ-21 Series	A		6,904		17,215	24,119		U
				-----		-----	-----		
	Total Modification of Aircraft			3,156,663		45,054	3,201,717		
Budget Activity 06: Aircraft Spares and Repair Parts									

Aircraft Spares and Repair Parts									
64	Spares and Repair Parts	A		1,792,920			1,792,920		U
				-----		-----	-----		
	Total Aircraft Spares and Repair Parts			1,792,920			1,792,920		
Budget Activity 07: Aircraft Support Equip & Facilities									

Aircraft Support Equip & Facilities									
65	Common Ground Equipment	A		421,606			421,606		U
66	Aircraft Industrial Facilities	A		24,496			24,496		U
67	War Consumables	A		42,108			42,108		U
68	Other Production Charges	A		1,444			1,444		U
69	Special Support Equipment	A		49,489			49,489		U
70	First Destination Transportation	A		1,951			1,951		U

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity Cost	FY 2018 PB Request with CR Adj Base Quantity Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity Cost	FY 2018 PB Request with CR Adj OCO Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
71	Cancelled Account Adjustments	A	239				U
			-----	-----	-----	-----	
	Total Aircraft Support Equip & Facilities		464,642	504,218	504,218	463	
	Budget Activity 20: Undistributed						

	Undistributed						
72	Adj to Match Continuing Resolution	A		1,062,816	1,062,816	524,887	U
			-----	-----	-----	-----	
	Total Undistributed			1,062,816	1,062,816	524,887	
			-----	-----	-----	-----	
	Total Aircraft Procurement, Navy		16,834,587	16,119,051	16,019,051	682,187	

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Total Obligational Authority
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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO Quantity	Cost	FY 2018 Emergency Requests** Emergency Quantity	Cost	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req Emergency Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
71	Cancelled Account Adjustments	A									U
			-----		-----		-----		-----		
	Total Aircraft Support Equip & Facilities			463							
	Budget Activity 20: Undistributed										

	Undistributed										
72	Adj to Match Continuing Resolution	A	524,887								U
			-----		-----		-----		-----		
	Total Undistributed		524,887								
			-----		-----		-----		-----		
	Total Aircraft Procurement, Navy		682,187								

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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** Quantity Cost	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs Quantity Cost	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency Quantity Cost	S e c -
----	-----	-----	-----	-----	-----	-
71	Cancelled Account Adjustments	A				U
			-----	-----	-----	
	Total Aircraft Support Equip & Facilities		504,681		504,681	
	Budget Activity 20: Undistributed					

	Undistributed					
72	Adj to Match Continuing Resolution	A	1,587,703		1,587,703	U
			-----	-----	-----	
	Total Undistributed		1,587,703		1,587,703	
			-----	-----	-----	
	Total Aircraft Procurement, Navy		16,701,238		16,701,238	

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Total Obligational Authority
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Appropriation: 1506N Aircraft Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
71	Cancelled Account Adjustments	A							U
			-----		-----		-----		
	Total Aircraft Support Equip & Facilities			541,094				541,094	
	Budget Activity 20: Undistributed								

	Undistributed								
72	Adj to Match Continuing Resolution	A							U
			-----		-----		-----		
	Total Undistributed								
			-----		-----		-----		
	Total Aircraft Procurement, Navy			19,041,799		80,119		19,121,918	

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7	01	01	0158	CH-53K (Heavy Lift).....	Volume 1 - 43
8	01	01	0158	CH-53K (Heavy Lift), Advance Procurement.....	Volume 1 - 55
9	01	01	0164	V-22 (Medium Lift).....	Volume 1 - 59
10	01	01	0164	V-22 (Medium Lift), Advance Procurement.....	Volume 1 - 75
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24	04	01	0443	MQ-8 UAV.....	Volume 1 - 183
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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy										Date: February 2018		
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												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,660.521	365.280	388.052	421.606	0.000	421.606	422.164	399.635	399.369	411.515	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,660.521	365.280	388.052	421.606	0.000	421.606	422.164	399.635	399.369	411.515	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,660.521	365.280	388.052	421.606	0.000	421.606	422.164	399.635	399.369	411.515	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description:</p> <p>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.</p> <p>[P40A / AUTOMATIC TEST EQUIPMENT]: GENERAL PROGRAM DESCRIPTION: 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>FY19 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.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
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		
<p>[P40A - 2 / A/C COMMON SUPPORT EQUIPMENT]: General Program Description: 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.</p> <p>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.</p> <p>FY19 provides funding to procure: Common Racks and Launcher Test Set (CRALTS) Replacement (CAATS), Vibration Analyzer, AN/APM-455 Radar Beacon Test Set Replacement, Next Generation Software Loader, Shore 1000/2000 Gallon Lox Tanks, Particle Counter, Small Capacity Mobile Electric Power Plant (MEPP)(Shipboard), Aircraft Engine Component Test Stand (AECTS) Replacement/Modification, First Destination Transportation Cost for hardware, Engineering Change Proposals to address minor CSE performance and obsolescence issues and associated support cost.</p> <p>[P40A - 3 / ICP/HEADQUARTERS MANAGED SUPPORT EQUIPMENT]: General Program Description: This budget sub-line funds the procurement of end items of Peculiar Support Equipment (PSE) for out-of-production weapon systems, and Common Support Equipment (CSE) under the budget, procurement, and inventory control of the Naval Inventory Control Point (NAVICP). PSE and CSE end items are normally introduced into the fleet through NAVAIR development and initial procurement. When design is stabilized and procurement packages are available, these items then migrate to NAVICP management, and are funded under this sub-line. NAVICP currently manages over 11,000 individual repairable SE end items. This subline also funds initial outfitting of new construction ships.</p> <p>This sub-line also provides for the replacement of certain in-use PSE that are now marginally effective, due to obsolescence, or to the unavailability of associated logistics support. As a consequence, a logistically supportable replacement item must be designed and produced. This budget sub-line provides replacement of PSE support for out-of-production aircraft requirements only.</p> <p>In addition, this sub-line provides for the completion of the design and production of: (1) certain PSE items that were not funded during the production phase of the weapon system, and (2) modifications to out-of-production aircraft PSE to extend its useful service life.</p> <p>COMFRC CSE Investment funding is required to replace aging and obsolete support equipment that has reached it's useful life at all depot fleet response centers (FRCs) that is negatively impacting both component and aircraft production and throughput. Replacement of this aging and obsolete equipment will support the recovery of Ready Based Aircraft (RBA) rates in the fleet for both USN and USMC aircraft.</p> <p>[P40A - 4 / CONSOLIDATED AUTOMATED SUPPORT SYSTEM]: Program Coverage: 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 five Mission Equipment Kits (MEKs) used with eCASS, 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], High Power [high energy radar systems], and Depot. The five MEKs used with eCASS replace the existing five configurations of CASS. Reconfigurable Transportable (RTCASS) [a man-transportable version of RF CASS] is used for USMC forward deployed expeditionary maintenance. 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. electronic CASS (eCASS), which is designated an ACAT IVM program, replaces legacy CASS stations and achieved a full-rate production decision in the 1st quarter of FY17.</p> <p>Justification: 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 and fixed wing aircraft.</p> <p>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.</p>		

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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		
<p>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.</p> <p>FY19 provides funding to procure (27) eCASS systems and associated ancillary equipment.</p> <p>Program Coverage: 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, including the associated Inertial Device Test Set (IDTS), 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 and IDTS 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 FY23.</p> <p>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, including production of an upgraded Inertial Device Test Set (IDTS), (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.</p> <p>Justification: 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.</p> <p>[P40A - 5 / MOBILE MAINTENANCE FACILITIES]: Program Description: 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.</p> <p>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.</p> <p>Program Coverage: 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.</p> <p>Key Attributes:</p>		

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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		
<div>- 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).</div> <div>- Provides an effective, reliable and affordable self-contained aircraft maintenance capability (avionics, airframes, et. al.)</div> <div>- Provides for supply support functions (work space, parts storage & parts transport)</div> <p>Justification: 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.</p> <p>[P40A - 6 / 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.</p> <p>Justification of 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. The Maintenance Computer Based Training (MCBT) program's emphasis is on Fleet In-Service Training using Advance Skills Management System (ASM). 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 for control tower operations, Carrier Air Traffic Control Center operations, Amphibious Air Traffic Control Center operations and advanced RADAR operations. The Landing Signal Officer (LSO) Program enables 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 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.</p> <p>FY19 provides funding to procure or upgrade the following training systems: ACTS expeditionary Lap Tops, ATC 15G30 Joint Precision Approach & Landing System (JPALS); NASTP 9H1 Helo Hoist and 9F9A Parachute Over Water Survival Trainer (POST); CASW Interactive Multi-Sensors Analysis Trainer (IMAT).</p> <p>[P40A - 7 / TOPSCENE]: Program Description: 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.</p> <p>[P40A - 8 / 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.</p> <p>Justification of Major Programs: The Navy Aviation Simulation Master Plan (NASMP) provides for training system capability procurements and major upgrades to address Fleet (post-Fleet Replacement Squadron) FA-18E/F, EA-18G, MH-60 and E-2 and legacy platform training requirements to achieve 1) an increase in Fleet Training and Readiness through enhanced training system fidelity and interoperability for distributed mission training and 2) the Fleet Integrated Training Environment (FITE) 2025 initiative, which includes the Navy Aviation Distributed Training Center (NADTC) that will manage the platform training system distributed mission training (DMT) requirements. FITE 2025 provides a fully integrated training capability to meet current and emerging aviation missions / kill chains through the integration of Live, Virtual and Constructive (LVC) components. The Undergraduate Military Flight Officer (UMFO) Training program acquires high fidelity flight officer training systems. The Chief of Naval Aviation Training</p>		

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Line Item MDAP/MAIS Code: N/A			
<p>(CNATRA) program will procure Operational Flight Trainers (OFT) and visual system upgrades in support of all Ground Based Training Systems. The FA-18 program will focus on upgrading key simulator sub-systems including visual systems, databases, threat models and aerodynamic properties. E-6B will emphasize upgrades to existing devices to correct obsolescence issues. P-3 will provide a technical upgrade of the 2F179A Tactical Operations Readiness Trainer (TORT), 2F87 flight simulator and 14B59 Forward Deployable Trainer (FDT) to correct obsolescence issues. EP-3E will concentrate on simulator upgrades, increasing training and readiness capability of simulators, refreshing threat models and correcting obsolescence issues. E-2/C-2 will emphasize upgrades to existing devices to correct obsolescence issues. MH-53E will procure upgrades for the Operational Flight Trainer (OFT) and the External Load and Mine Countermeasures Simulators. 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 (TEen) software will be modernized for existing 2nd and 3rd Marine Air Wing (MAW) sites; while ADVTE capability will be procured and installed for 1st and 4th MAW sites. 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. Training courseware and curriculums will be procured for transformational Marine Corps Aircraft. In 2021, NASMP will also incorporate Technical Refresh/Upgrades, Modernization, Information Assurance/Cyber Security accreditation, and all software/hardware Commander Naval Air Forces (CNAF) requirements for FA-18E/F, EA-18G, MH-60, E-2C/D, C-2A, E-6B, P-8A, MQ-4C, MQ-8, MH-53E, CBARS/Stingray and legacy aircrew simulators/trainers.</p> <p>FY19 provides funding to upgrade or modernize the following training systems: E-6 Operational Flight Trainer (OFT); USMC ADVTE, KC-130J Weapon Systems Trainer (WST) and MV-22 Containerized Flight Training Device (CFTD); MH-53 Configurable and Cargo Load Procedures Trainer (CCLPT)/Operational Flight Trainer (OFT)/Airborne Mine Counter Measures (AMCM) Stream and Recovery Module (ASRM) and Enhanced Aircrew External Trainer (EAET); NASMP MH-60S Aircrew Virtual Environment Trainer (AVET), MH-60R and MH-60S Operational Flight Trainer (OFT) and Tactical Operational Flight Trainer (TOFT) (MH-60R/S Technology Refresh), MH-60R Naval Aircrew Training Systems (NATS), FA/EA-18 Cockpit Hardware, FA-18 Instructor Operator Station (IOS)-Brief Debrief Station (BDS)-Mission Operations Center (MOC), FA-18 IOS-BDS-MOC Targets/Maps Fidelity, FA-18 Common IOS-BDS-MOC Console & Displays Fidelity and FA-18 IOS-BDS-MOC Audio Control Fidelity; LVC Integrated Training Facility (ITF).</p>			

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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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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				- / 370.652	- / 26.093	- / 23.938	- / 25.451	- / -	- / 25.451
P-40a	A/C COMMON SUPPORT EQUIPMENT	P-5a, P-21			- / 310.539	- / 53.526	- / 56.925	- / 58.486	- / -	- / 58.486
P-40a	ICP/HEADQUARTERS MANAGED SUPPORT EQUIPMENT				- / 173.482	- / 29.690	- / 27.991	- / 52.677	- / -	- / 52.677
P-40a	CONSOLIDATED AUTOMATED SUPPORT SYSTEM	P-5a, P-21			- / 877.157	- / 84.021	- / 80.232	- / 86.365	- / -	- / 86.365
P-40a	MOBILE MAINTENANCE FACILITIES	P-5a			- / 125.075	- / 4.235	- / 6.817	- / 6.841	- / -	- / 6.841
P-40a	GENERAL SKILLS TRAINING	P-5a			- / 43.377	- / 11.133	- / 10.423	- / 10.460	- / -	- / 10.460
P-40a	TOPSCENE	P-5a, P-21			- / 10.623	- / -	- / -	- / -	- / -	- / -
P-40a	OTHER FLIGHT TRAINING	P-5a, P-21			- / 749.616	- / 156.582	- / 181.726	- / 181.326	- / -	- / 181.326
P-40	Total Gross/Weapon System Cost				- / 2,660.521	- / 365.280	- / 388.052	- / 421.606	- / 0.000	- / 421.606
<p>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>										
<p>Justification: The FY 2019 funding request was reduced by \$3.881 million to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.</p>										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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		-	-	254.235	-	-	20.000	-	-	17.703	-	-	18.830	-	-	-	-	-	18.830
Subtotal: 1) Hardware			-	-	254.235	-	-	20.000	-	-	17.703	-	-	18.830	-	-	-	-	-	18.830
2) Non-Recurring																				
2.1) TPS Transition to CASS	A		-	-	7.106	-	-	0.714	-	-	0.957	-	-	0.973	-	-	-	-	-	0.973
Subtotal: 2) Non-Recurring			-	-	7.106	-	-	0.714	-	-	0.957	-	-	0.973	-	-	-	-	-	0.973
3) ILS																				
3.1) TPS Transition to CASS	A		-	-	26.639	-	-	1.334	-	-	1.675	-	-	1.797	-	-	-	-	-	1.797
Subtotal: 3) ILS			-	-	26.639	-	-	1.334	-	-	1.675	-	-	1.797	-	-	-	-	-	1.797
4) Production Engineering																				
4.1) TPS Transition to CASS	A		-	-	82.672	-	-	4.045	-	-	3.603	-	-	3.851	-	-	-	-	-	3.851
Subtotal: 4) Production Engineering			-	-	82.672	-	-	4.045	-	-	3.603	-	-	3.851	-	-	-	-	-	3.851
Total			-	-	370.652	-	-	26.093	-	-	23.938	-	-	25.451	-	-	-	-	-	25.451

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 - Crafts Replacement (CAATS) ^(†)	A		140,462.96	108	15.170	140,000.00	42	5.880	140,000.00	37	5.180	140,000.00	27	3.780	-	-	-	140,000.00	27	3.780
1.2) Vibration - Vibration Analyzer ^(†) (†)	B		56,250.00	8	0.450	-	-	-	14,490.00	100	1.449	10,000.00	100	1.000	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) COMM/NAV I/D - AN/APM-455 RBTS Replacement ^(†)	B		-	-	-	-	-	-	-	-	-	65,000.00	5	0.325	-	-	-	65,000.00	5	0.325
1.5) S/W Loader - Next Generation Software Loader ^(†)	A		37,970.94	413	15.682	37,967.00	120	4.556	42,000.00	116	4.872	42,000.00	40	1.680	-	-	-	42,000.00	40	1.680
1.6) Cryogenics - Shore 1000/2000 Gallon Lox Tanks ^(†)	B		-	-	-	-	-	-	-	-	-	200,000.00	7	1.400	-	-	-	200,000.00	7	1.400
1.7) Hydraulics - Hydraulic Test Stand I Level ^(†)	A		176,270.83	48	8.461	123,642.86	14	1.731	144,000.00	12	1.728	-	-	-	-	-	-	-	-	-
1.8) Hydraulics - Particle Counter ^(†)	B		-	-	-	-	-	-	-	-	-	15,000.00	10	0.150	-	-	-	15,000.00	10	0.150
1.10) Platform Support - Air Conditioner Ship Shore ^(†)	A		134,477.71	157	21.113	138,000.00	53	7.314	140,000.00	35	4.900	-	-	-	-	-	-	-	-	-
1.11) Platform Support - SD2 Replacement ^(†)	B		-	-	-	-	-	-	300,000.00	5	1.500	-	-	-	-	-	-	-	-	-
1.16) Electrical - Large Capacity MEPP ^(†)	A		70,318.32	333	23.416	70,467.74	62	4.369	-	-	-	-	-	-	-	-	-	-	-	-
1.17) Electrical - Small Capacity MEPP (Shipboard) ^(†)	B		200,000.00	5	1.000	-	-	-	164,000.00	33	5.412	170,000.00	35	5.950	-	-	-	170,000.00	35	5.950
1.19) Electrical - AECTS Replacement/ Modification ^(†)	B		-	-	-	-	-	-	-	-	-	950,000.00	5	4.750	-	-	-	950,000.00	5	4.750
1.20) Electronic Warfare- JSECST Upgrade ^(†)	A		49,103.66	164	8.053	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
1.21) First Destination Transportation Costs (2)	A		-	-	-	-	-	0.800	-	-	0.800	-	-	0.800	-	-	-	-	-	0.800
1.22) Engineering Change Proposal (ECP) (3)	A		-	-	-	-	-	-	-	-	-	-	-	0.475	-	-	-	-	-	0.475
Subtotal: 1) Hardware			-	-	103.823	-	-	24.650	-	-	25.841	-	-	20.310	-	-	-	-	-	20.310
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	-	-	-	-	-	3.800
2.7) Software Load	A		-	-	6.766	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.8) Non Destruct Inspection (NDI)	A		-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.9) Cryogenics (4)	A		-	-	-	-	-	-	-	-	-	-	-	0.200	-	-	-	-	-	0.200
2.10) Hydraulics	A		-	-	3.071	-	-	-	-	-	-	-	-	2.000	-	-	-	-	-	2.000
2.11) Propulsion	A		-	-	2.782	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.12) Platform Support	A		-	-	2.893	-	-	-	-	-	4.500	-	-	-	-	-	-	-	-	-
2.13) Electrical	A		-	-	5.162	-	-	-	-	-	-	-	-	5.675	-	-	-	-	-	5.675
2.14) Electronic Warfare	A		-	-	0.859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) Non Recurring			-	-	31.290	-	-	-	-	-	4.500	-	-	11.675	-	-	-	-	-	11.675
3) ILS																				
3.1) Weapons Control	A		-	-	1.652	-	-	0.290	-	-	0.293	-	-	0.295	-	-	-	-	-	0.295
3.2) Vibration	A		-	-	0.702	-	-	0.101	-	-	0.101	-	-	0.101	-	-	-	-	-	0.101
3.3) Corrosion	A		-	-	0.526	-	-	0.055	-	-	0.055	-	-	0.050	-	-	-	-	-	0.050
3.4) Aircraft Wiring	A		-	-	0.815	-	-	0.144	-	-	0.145	-	-	0.147	-	-	-	-	-	0.147
3.5) Shipboard Fire Trucks	A		-	-	0.838	-	-	0.100	-	-	0.088	-	-	0.080	-	-	-	-	-	0.080
3.6) COMM/NAV I/D	A		-	-	1.604	-	-	0.150	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
3.7) Software Load	A		-	-	0.512	-	-	0.090	-	-	0.090	-	-	0.095	-	-	-	-	-	0.095
3.8) Non Destruct Inspection (NDI)	A		-	-	3.042	-	-	0.366	-	-	0.300	-	-	0.295	-	-	-	-	-	0.295
3.9) Cryogenics	A		-	-	1.298	-	-	0.219	-	-	0.200	-	-	0.200	-	-	-	-	-	0.200
3.10) Hydraulics	A		-	-	0.969	-	-	0.181	-	-	0.189	-	-	0.200	-	-	-	-	-	0.200
3.11) Propulsion	A		-	-	4.463	-	-	0.718	-	-	0.722	-	-	0.730	-	-	-	-	-	0.730
3.12) Platform Support	A		-	-	8.068	-	-	1.381	-	-	1.385	-	-	1.390	-	-	-	-	-	1.390
3.13) Electrical	A		-	-	4.106	-	-	0.841	-	-	0.840	-	-	0.840	-	-	-	-	-	0.840

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018			
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
3.14) Electronic Warfare	A		-	-	0.725	-	-	0.100	-	-	0.100	-	-	0.090	-	-	-	-	-	0.090
Subtotal: 3) ILS			-	-	29.320	-	-	4.736	-	-	4.608	-	-	4.613	-	-	-	-	-	4.613
4) Production Engineering Support																				
4.1) Weapons Control	A		-	-	8.491	-	-	1.452	-	-	1.424	-	-	1.425	-	-	-	-	-	1.425
4.2) Vibration	A		-	-	3.582	-	-	0.519	-	-	0.506	-	-	0.440	-	-	-	-	-	0.440
4.3) Corrosion	A		-	-	0.842	-	-	0.094	-	-	0.082	-	-	0.080	-	-	-	-	-	0.080
4.4) Aircraft Wiring	A		-	-	4.160	-	-	0.620	-	-	0.615	-	-	0.610	-	-	-	-	-	0.610
4.5) Shipboard Fire Trucks	A		-	-	5.899	-	-	0.950	-	-	0.931	-	-	0.930	-	-	-	-	-	0.930
4.6) COMM/NAV I/D	A		-	-	7.732	-	-	1.210	-	-	1.191	-	-	1.190	-	-	-	-	-	1.190
4.7) Software Load	A		-	-	4.474	-	-	0.740	-	-	0.726	-	-	0.725	-	-	-	-	-	0.725
4.8) Non Destruct Inspection (NDI)	A		-	-	9.802	-	-	1.501	-	-	1.411	-	-	1.433	-	-	-	-	-	1.433
4.9) Cryogenics	A		-	-	9.181	-	-	1.404	-	-	1.335	-	-	1.411	-	-	-	-	-	1.411
4.10) Hydraulics	A		-	-	5.840	-	-	0.950	-	-	0.900	-	-	0.925	-	-	-	-	-	0.925
4.11) Propulsion	A		-	-	17.252	-	-	2.575	-	-	2.551	-	-	2.545	-	-	-	-	-	2.545
4.12) Platform Support	A		-	-	20.964	-	-	3.676	-	-	3.237	-	-	3.120	-	-	-	-	-	3.120
4.13) Electrical	A		-	-	7.349	-	-	1.245	-	-	1.242	-	-	1.250	-	-	-	-	-	1.250
4.14) Electronic Warfare	A		-	-	8.067	-	-	1.310	-	-	1.305	-	-	1.310	-	-	-	-	-	1.310
Subtotal: 4) Production Engineering Support			-	-	113.635	-	-	18.246	-	-	17.456	-	-	17.394	-	-	-	-	-	17.394
5) Installations																				
5.1) Non FMP Installations	A		-	-	16.282	-	-	3.154	-	-	1.760	-	-	1.876	-	-	-	-	-	1.876
5.2) FMP Installations	A		-	-	16.189	-	-	2.740	-	-	2.760	-	-	2.618	-	-	-	-	-	2.618
Subtotal: 5) Installations			-	-	32.471	-	-	5.894	-	-	4.520	-	-	4.494	-	-	-	-	-	4.494
Total			-	-	310.539	-	-	53.526	-	-	56.925	-	-	58.486	-	-	-	-	-	58.486

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) Due to performance issues, Vibration Analyzer program scope changed from replacing the legacy test set to modifying the test set to remove obsolete parts resulting in a unit cost and quantity adjustment. FY18 unit cost includes non-recurring efforts to identify replacement parts and update technical documentation.
- (2) 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).
- (3) Engineering Change Proposal (ECP) line created to address CSE emerging obsolescence issues identified requiring immediate support to maintain fleet capability.
- (4) The FY19 non-recurring for 2.6 COMM/NAV ID, 2.9 Cryogenics, 2.10 Hydraulics, and 2.13 Electrical includes technical drawings, maintenance plans, contractor performed testing, technical manuals and provisioning data.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
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]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Hardware												
1.1) Weapons Control - Crafts Replacement (CAATS) ^(†)		2016	BEHLMAN ELECTRONICS INC / HAUPPAUGE NY	C / FFP	NAWCAD LKE	Sep 2017	Jul 2018	53	140,000.00	Y		
1.1) Weapons Control - Crafts Replacement (CAATS) ^(†)		2017	BEHLMAN ELECTRONICS INC / HAUPPAUGE NY	C / FFP	NAWCAD LKE	Sep 2017	Feb 2019	42	140,000.00	Y		
1.1) Weapons Control - Crafts Replacement (CAATS) ^(†)		2018	BEHLMAN ELECTRONICS INC / HAUPPAUGE NY	C / FFP	NAWCAD LKE	Nov 2017	Aug 2019	37	140,000.00	Y		
1.1) Weapons Control - Crafts Replacement (CAATS) ^(†)		2019	BEHLMAN ELECTRONICS INC / HAUPPAUGE NY	C / FFP	NAWCAD LKE	Oct 2018	Jan 2020	27	140,000.00	Y		
1.2) Vibration - Vibration Analyzer (1)(†)		2018	ACES SYSTEMS / KNOXVILLE TN	SS / FFP	NAWCAD LKE	Mar 2018	Nov 2018	100	14,490.00	Y		
1.2) Vibration - Vibration Analyzer (1)(†)		2019 ⁽⁵⁾	ACES SYSTEMS / KNOXVILLE TN	SS / FFP	NAWCAD LKE	Jan 2019	Sep 2019	100	10,000.00	Y		
1.4) COMM/NAV I/D - AN/APM-455 RBTS Replacement ^(†)		2019	TBD / TBD	C / FFP	NAWCAD LKE	Mar 2019	Sep 2019	5	65,000.00	Y		May 2018
1.5) S/W Loader - Next Generation Software Loader ^(†)		2017	NSWC CRANE / IN	PO	NSWC CRANE	Dec 2016	Dec 2017	120	37,967.00	Y		
1.5) S/W Loader - Next Generation Software Loader ^(†)		2018	NSWC CRANE / IN	PO	NSWC CRANE	Oct 2017	Dec 2018	116	42,000.00	Y		
1.5) S/W Loader - Next Generation Software Loader ^(†)		2019	NSWC CRANE / IN	PO	NSWC CRANE	Oct 2018	Nov 2019	40	42,000.00	Y		
1.6) Cryogenics - Shore 1000/2000 Gallon Lox Tanks ^(†)		2019	TBD / TBD	C / FFP	NAWCAD LKE	Feb 2019	Dec 2019	7	200,000.00	Y		Mar 2018
1.7) Hydraulics - Hydraulic Test Stand I Level ^(†)		2016	Hydraulics International Inc. (1) / CHATSWORTH CA	C / FFP	NAWCAD LKE	Dec 2015	Oct 2017	22	121,636.36	Y		Aug 2011
1.7) Hydraulics - Hydraulic Test Stand I Level ^(†)		2017	Hydraulics International Inc. (1) / CHATSWORTH CA	C / FFP	NAWCAD LKE	Nov 2016	Sep 2018	14	123,642.86	Y		Aug 2011
1.7) Hydraulics - Hydraulic Test Stand I Level ^(†)		2018	Hydraulics International Inc. (1) / CHATSWORTH CA	C / FFP	NAWCAD LKE	Oct 2017	Apr 2019	12	144,000.00	Y		Aug 2011
1.8) Hydraulics - Particle Counter ^(†)		2019	TBD / TBD	C / FFP	NAWCAD LKE	Feb 2019	Dec 2019	10	15,000.00	Y		Mar 2018
1.10) Platform Support - Air Conditioner Ship Shore ^(†)		2015	DRS TECHNOLOGIES (2) / FLORENCE, KY	C / FFP	NAWCAD LKE	Jun 2017	Jan 2018	94	131,680.85	Y		Dec 2009
1.10) Platform Support - Air Conditioner Ship Shore ^(†)		2016	DRS TECHNOLOGIES (1) / FLORENCE, KY	C / FFP	NAWCAD LKE	Jun 2017	Dec 2018	55	131,680.85	Y		Dec 2009

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
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]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.10) Platform Support - Air Conditioner Ship Shore ^(†)		2017	DRS TECHNOLOGIES (1) / FLORENCE, KY	C / FFP	NAWCAD LKE	Jun 2017	May 2019	53	138,000.00	Y		Dec 2009
1.10) Platform Support - Air Conditioner Ship Shore ^(†)		2018	DRS TECHNOLOGIES (1) / FLORENCE, KY	SS / FFP	NAWCAD LKE	Apr 2018	Nov 2019	35	140,000.00	Y		Dec 2009
1.11) Platform Support - SD2 Replacement ^(†)		2018	Hydraulics International Inc. (1) / CHATSWORTH CA	C / FFP	NAWCAD LKE	Dec 2017	Feb 2019	5	300,000.00	Y		Nov 2016
1.16) Electrical - Large Capacity MEPP ^(†)		2015	Essex Electro Engineers, Inc / Schaumburg, IL	C / FFP	NAWCAD LKE	Mar 2016	Apr 2017	112	70,776.79	Y		Apr 2010
1.16) Electrical - Large Capacity MEPP ^(†)		2016	Essex Electro Engineers, Inc / Schaumburg, IL	C / FFP	NAWCAD LKE	Mar 2016	Nov 2017	105	68,457.14	Y		Apr 2010
1.16) Electrical - Large Capacity MEPP ^(†)		2017	Essex Electro Engineers, Inc / Schaumburg, IL	C / FFP	NAWCAD LKE	Jan 2017	Jun 2018	62	70,467.74	Y		Apr 2010
1.17) Electrical - Small Capacity MEPP (Shipboard) ^(†)		2018	JBT CORP / OGDEN, UT	C / FFP	NAWCAD LKE	Feb 2018	Jun 2018	33	164,000.00	Y		Nov 2013
1.17) Electrical - Small Capacity MEPP (Shipboard) ^(†)		2019	JBT CORP / OGDEN, UT	C / FFP	NAWCAD LKE	Nov 2018	Dec 2018	35	170,000.00	Y		Nov 2013
1.19) Electrical - AECTS Replacement/Modification ^(†)		2019	TBD / TBD	C / FFP	NAWCAD LKE	Jan 2019	Jun 2020	5	950,000.00	Y		Mar 2018
1.20) Electricronic Warfare-JSECST Upgrade ^(†)		2016	AAI Corporation / Hunt Valley, MD	MIPR	Warner Robins AFB, GA	Mar 2016	Apr 2017	95	48,452.63	Y		Jan 2014

^(†) indicates the presence of a P-21

Footnotes:

⁽⁵⁾ 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.

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018															
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 2016										Fiscal Year 2017										B A L A N C E								
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016										Calendar Year 2017																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P				
1) Hardware																																			
1.1) Weapons Control - CraIts Replacement (CAATS)																																			
Prior Years Deliveries: 55																																			
	1	2016	NAVY	53	0	53																										A -	53		
	1	2017	NAVY	42	0	42																										A -	42		
	1	2018	NAVY	37	0	37																											37		
	1	2019	NAVY	27	0	27																											27		
1.2) Vibration - Vibration Analyzer ⁽¹⁾																																			
Prior Years Deliveries: 8																																			
	2	2018	NAVY	100	0	100																											100		
	2	2019	NAVY	100	0	100																											100		
1.4) COMM/NAV I/D - AN/APM-455 RBTS Replacement																																			
	3	2019	NAVY	5	0	5																											5		
1.5) S/W Loader - Next Generation Software Loader																																			
Prior Years Deliveries: 413																																			
	4	2017	NAVY	120	0	120																A -	-	-	-	-	-	-	-	-	-	-	-	-	120
	4	2018	NAVY	116	0	116																											116		
	4	2019	NAVY	40	0	40																											40		
1.6) Cryogenics - Shore 1000/2000 Gallon Lox Tanks																																			
	5	2019	NAVY	7	0	7																											7		
1.7) Hydraulics - Hydraulic Test Stand I Level																																			
Prior Years Deliveries: 26																																			
	6	2016	NAVY	22	0	22		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22					
	6	2017	NAVY	14	0	14																A -	-	-	-	-	-	-	-	-	-	-	-	14	
	6	2018	NAVY	12	0	12																											12		
1.8) Hydraulics - Particle Counter																																			
	7	2019	NAVY	10	0	10																											10		
1.10) Platform Support - Air Conditioner Ship Shore																																			
Prior Years Deliveries: 8																																			
	9	2015	NAVY	94	0	94																A -	-	-	-		94								
	8	2016	NAVY	55	0	55																A -	-	-	-		55								
	8	2017	NAVY	53	0	53																A -	-	-	-		53								
	8	2018	NAVY	35	0	35																											35		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018									
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 2016														Fiscal Year 2017														B A L A N C E		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016														Calendar Year 2017																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
1.11) Platform Support - SD2 Replacement																																					
	10	2018	NAVY	5	0	5																											5				
1.16) Electrical - Large Capacity MEPP																																					
Prior Years Deliveries: 116																																					
	11	2015	NAVY	112	0	112						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	15	15	15	15	15	28		
	11	2016	NAVY	105	0	105						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105		
	11	2017	NAVY	62	0	62															A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62
1.17) Electrical - Small Capacity MEPP (Shipboard)																																					
Prior Years Deliveries: 5																																					
	12	2018	NAVY	33	0	33																											33				
	12	2019	NAVY	35	0	35																											35				
1.19) Electrical - AECTS Replacement/Modification																																					
	13	2019	NAVY	5	0	5																											5				
1.20) Electronic Warfare- JSECST Upgrade																																					
Prior Years Deliveries: 69																																					
	14	2016	NAVY	95	0	95						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	10	10	10	10	10	44		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2019 Navy																			Date: February 2018														
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 2018													Fiscal Year 2019													BALANCE
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEP PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1) Hardware																																	
1.1) Weapons Control - CraIts Replacement (CAATS)																																	
Prior Years Deliveries: 55																																	
	1	2016	NAVY	53	0	53	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	4									0	
	1	2017	NAVY	42	0	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	7	7	7	7	7	4				0	
	1	2018	NAVY	37	0	37		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	7		27	
	1	2019	NAVY	27	0	27													A	-	-	-	-	-	-	-	-	-	-	-	-	27	
1.2) Vibration - Vibration Analyzer ⁽¹⁾																																	
Prior Years Deliveries: 8																																	
	2	2018	NAVY	100	0	100						A	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10				0	
	2	2019	NAVY	100	0	100																A	-	-	-	-	-	-	-	-	10	90	
1.4) COMM/NAV I/D - AN/APM-455 RBTS Replacement																																	
	3	2019	NAVY	5	0	5																		A	-	-	-	-	-	-	1	4	
1.5) S/W Loader - Next Generation Software Loader																																	
Prior Years Deliveries: 413																																	
	4	2017	NAVY	120	0	120	-	-	10	10	10	10	10	10	10	10	10	10	10	10												0	
	4	2018	NAVY	116	0	116	A	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	16		
	4	2019	NAVY	40	0	40													A	-	-	-	-	-	-	-	-	-	-	-	40		
1.6) Cryogenics - Shore 1000/2000 Gallon Lox Tanks																																	
	5	2019	NAVY	7	0	7																	A	-	-	-	-	-	-	-	7		
1.7) Hydraulics - Hydraulic Test Stand I Level																																	
Prior Years Deliveries: 26																																	
	6	2016	NAVY	22	0	22	2	2	2	2	2	2	2	2	2	2															0		
	6	2017	NAVY	14	0	14	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2								0		
	6	2018	NAVY	12	0	12	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2		0		
1.8) Hydraulics - Particle Counter																																	
	7	2019	NAVY	10	0	10																	A	-	-	-	-	-	-	-	10		
1.10) Platform Support - Air Conditioner Ship Shore																																	
Prior Years Deliveries: 8																																	
	9	2015	NAVY	94	0	94	-	-	-	7	7	7	7	7	7	10	10	10	10	10	2										0		
	8	2016	NAVY	55	0	55	-	-	-	-	-	-	-	-	-	-	-	-	-	8	10	10	10	10	7						0		
	8	2017	NAVY	53	0	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	10	10	10	10	10		
	8	2018	NAVY	35	0	35							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018									
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 2018														Fiscal Year 2019												BALANCE	
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018														Calendar Year 2019												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1.11) Platform Support - SD2 Replacement																																	
	10	2018	NAVY	5	0	5		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2									0	
1.16) Electrical - Large Capacity MEPP																																	
Prior Years Deliveries: 116																																	
	11	2015	NAVY	112	84	28	15	13																								0	
	11	2016	NAVY	105	0	105	-	2	15	15	15	15	15	15	13																	0	
	11	2017	NAVY	62	0	62	-	-	-	-	-	-	-	-	2	15	15	15	15													0	
1.17) Electrical - Small Capacity MEPP (Shipboard)																																	
Prior Years Deliveries: 5																																	
	12	2018	NAVY	33	0	33				A -	-	-	-	-	5	5	5	5	5	5	3											0	
	12	2019	NAVY	35	0	35													A -	2	5	5	5	5	5	5	5	3				0	
1.19) Electrical - AECTS Replacement/Modification																																	
	13	2019	NAVY	5	0	5															A -	-	-	-	-	-	-	-	-	-	-	5	
1.20) Electronic Warfare- JSECST Upgrade																																	
Prior Years Deliveries: 69																																	
	14	2016	NAVY	95	51	44	10	10	10	10	4																					0	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018															
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 2020										Fiscal Year 2021													BALANCE					
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT				Calendar Year 2020										Calendar Year 2021															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP				
1) Hardware																																			
1.1) Weapons Control - Cralts Replacement (CAATS)																																			
Prior Years Deliveries: 55																																			
	1	2016	NAVY	53	53	0																												0	
	1	2017	NAVY	42	42	0																												0	
	1	2018	NAVY	37	10	27	7	7	7	6																								0	
	1	2019	NAVY	27	0	27	-	-	-	1	7	7	7	5																				0	
1.2) Vibration - Vibration Analyzer ⁽¹⁾																																			
Prior Years Deliveries: 8																																			
	2	2018	NAVY	100	100	0																												0	
	2	2019	NAVY	100	10	90	10	10	10	10	10	10	10	10	10																				0
1.4) COMM/NAV I/D - AN/APM-455 RBTS Replacement																																			
	3	2019	NAVY	5	1	4	1	1	1	1																								0	
1.5) S/W Loader - Next Generation Software Loader																																			
Prior Years Deliveries: 413																																			
	4	2017	NAVY	120	120	0																												0	
	4	2018	NAVY	116	100	16	10	6																											0
	4	2019	NAVY	40	0	40	-	4	10	10	10	6																						0	
1.6) Cryogenics - Shore 1000/2000 Gallon Lox Tanks																																			
	5	2019	NAVY	7	0	7	-	-	2	2	2	1																						0	
1.7) Hydraulics - Hydraulic Test Stand I Level																																			
Prior Years Deliveries: 26																																			
	6	2016	NAVY	22	22	0																												0	
	6	2017	NAVY	14	14	0																												0	
	6	2018	NAVY	12	12	0																												0	
1.8) Hydraulics - Particle Counter																																			
	7	2019	NAVY	10	0	10	-	-	10																									0	
1.10) Platform Support - Air Conditioner Ship Shore																																			
Prior Years Deliveries: 8																																			
	9	2015	NAVY	94	94	0																												0	
	8	2016	NAVY	55	55	0																												0	
	8	2017	NAVY	53	43	10	10																											0	
	8	2018	NAVY	35	0	35	-	10	10	10	5																							0	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					

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Exhibit P-21, Production Schedule: PB 2019 Navy								Date: February 2018			
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)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	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	8	17	0	3	20	23
3	TBD - TBD	1	25	25	0	1	6	7	0	1	5	6
4	NSWC CRANE - IN	2	144	288	0	4	6	10	0	0	0	0
5	TBD - TBD	1	5	10	0	5	10	15	1	5	10	15
6	Hydraulics International Inc. (1) - CHATSWORTH CA	1	24	48	0	11	11	22	0	5	6	11
7	TBD - TBD	1	10	20	0	5	10	15	1	5	10	15
8	DRS TECHNOLOGIES (1) - FLORENCE, KY	2	120	240	0	4	6	10	0	4	10	14
9	DRS TECHNOLOGIES (2) - FLORENCE, KY	2	120	240	0	3	7	10	0	0	0	0
10	Hydraulics International Inc. (1) - CHATSWORTH CA	1	5	10	0	1	14	15	0	0	0	0
11	Essex Electro Engineers, Inc - Schaumburg, IL	3	180	360	0	1	5	6	0	1	2	3
12	JBT CORP - OGDEN, UT	1	60	120	0	1	4	5	0	1	1	2
13	TBD - TBD	1	5	9	0	3	17	20	0	3	17	20
14	AAI Corporation - Hunt Valley, MD	1	84	168	0	1	6	7	0	3	2	5

"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-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018				
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 Initial Outfitting	A		-	-	27.110	-	-	2.131	-	-	2.160	-	-	2.201	-	-	-	-	-	2.201
1.2) PSE Initial Outfitting ⁽⁶⁾	A		-	-	42.526	-	-	8.813	-	-	7.242	-	-	8.651	-	-	-	-	-	8.651
1.3) New Support Equipment	A		-	-	59.069	-	-	13.490	-	-	13.234	-	-	11.356	-	-	-	-	-	11.356
Subtotal: 1) Hardware			-	-	128.705	-	-	24.434	-	-	22.636	-	-	22.208	-	-	-	-	-	22.208
2) Production Engineering																				
2.1) CSE Initial Outfitting	A		-	-	1.384	-	-	0.238	-	-	0.248	-	-	0.253	-	-	-	-	-	0.253
2.2) PSE Initial Outfitting	A		-	-	9.427	-	-	0.787	-	-	0.819	-	-	0.835	-	-	-	-	-	0.835
2.3) New Support Equipment	A		-	-	23.311	-	-	4.231	-	-	4.288	-	-	4.381	-	-	-	-	-	4.381
Subtotal: 2) Production Engineering			-	-	34.122	-	-	5.256	-	-	5.355	-	-	5.469	-	-	-	-	-	5.469
3) OCO																				
3.1) Individual Material Readiness List (IMRL) OCO	A		-	-	10.655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) OCO			-	-	10.655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) COMFRC RBA Recovery																				
4.1) COMFRC CSE Investment ⁽⁷⁾	A		-	-	-	-	-	-	-	-	-	-	-	25.000	-	-	-	-	-	25.000
Subtotal: 4) COMFRC RBA Recovery			-	-	0.000	-	-	-	-	-	-	-	-	25.000	-	-	-	-	-	25.000
Total			-	-	173.482	-	-	29.690	-	-	27.991	-	-	52.677	-	-	-	-	-	52.677

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

Footnotes:

- ⁽⁶⁾ FY19 PSE increase in funds is due to funding provided for the replacement of H53E Peculiar even COG Intermediate and Organizational (I&O) level maintenance Individual Material Readiness List (IMRL)/Support Equipment (SE) assets that are deficit for the H53 community. FY21 PSE increase due to European Deterrence Initiative (EDI) as P-8 Aircraft will be out-of-production beginning in FY20.
- ⁽⁷⁾ COMFRC CSE Investment funding is required to replace aging and obsolete support equipment that has reached it's useful life at all depot fleet response centers (FRCs) that is negatively impacting both component and aircraft production and throughput. Replacement of this aging and obsolete equipment will support the recovery of Ready Based Aircraft (RBA) rates in the fleet for both USN and USMC aircraft.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018				
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 ^(†)	B		2,536K	99	251.090	2,618K	28	73.304	2,483K	26	64.558	2,533K	27	68.391	-	-	-	2,533K	27	68.391
Subtotal: 1) Hardware			-	-	510.370	-	-	73.304	-	-	64.558	-	-	68.391	-	-	-	-	-	68.391
2) ECP																				
2.1) RT CASS	A		-	-	108.352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) eCASS ⁽⁸⁾	B		-	-	0.656	-	-	1.093	-	-	1.773	-	-	4.068	-	-	-	-	-	4.068
Subtotal: 2) ECP			-	-	109.008	-	-	1.093	-	-	1.773	-	-	4.068	-	-	-	-	-	4.068
3) ILS																				
3.1) RT CASS	A		-	-	44.920	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) eCASS	B		-	-	27.021	-	-	4.390	-	-	4.864	-	-	4.951	-	-	-	-	-	4.951
Subtotal: 3) ILS			-	-	71.941	-	-	4.390	-	-	4.864	-	-	4.951	-	-	-	-	-	4.951
4) Production Engineering																				
4.1) RT CASS	A		-	-	93.745	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2) eCASS	B		-	-	23.412	-	-	4.040	-	-	3.737	-	-	3.874	-	-	-	-	-	3.874
Subtotal: 4) Production Engineering			-	-	117.157	-	-	4.040	-	-	3.737	-	-	3.874	-	-	-	-	-	3.874
5) Non FMP Installations																				
5.1) RT CASS	A		-	-	29.076	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2) eCASS	B		-	-	7.072	-	-	1.041	-	-	3.349	-	-	3.341	-	-	-	-	-	3.341
Subtotal: 5) Non FMP Installations			-	-	36.148	-	-	1.041	-	-	3.349	-	-	3.341	-	-	-	-	-	3.341
6) FMP Installations																				
6.1) RT CASS	A		-	-	31.275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) eCASS	B		-	-	1.258	-	-	0.153	-	-	1.951	-	-	1.740	-	-	-	-	-	1.740
Subtotal: 6) FMP Installations			-	-	32.533	-	-	0.153	-	-	1.951	-	-	1.740	-	-	-	-	-	1.740
Total			-	-	877.157	-	-	84.021	-	-	80.232	-	-	86.365	-	-	-	-	-	86.365

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:

(⁸) The PB19 downward budget adjustments of approximately \$4.58M across the FYDP (FY19-FY23) was addressed by reducing the total ECP line and adjusting the profile across the FYDP to minimize preplanned product improvements, coupled with the deferral of a total qty of 2 eCASS systems from FY19 (-1) & FY21 (-1) to FY23 (+2) in order to not extend the eCASS POR or delay the start of EO4 production. The impact was primarily reflected in an overall decrease across the FYDP for the ECP line, though there was an increase in expected FY19 & FY21 ECPs to support the change in ECP focus for program with the near elimination of FY23 ECPs.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
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]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Hardware												
1.2) eCASS ^(†)		2015	Lockheed Martin (LRIP 3) ⁽⁹⁾ / Orlando, FL	SS / FFP	NAWCAD LKE	Jan 2015	Aug 2016	28	2,516K	Y		May 2014
1.2) eCASS ^(†)		2016	Lockheed Martin (FRP 1) ⁽¹⁰⁾ / Orlando, FL	SS / FFP	NAWCAD LKE	Feb 2017	Mar 2018	35	2,567K	Y		May 2016
1.2) eCASS ^(†)		2017	Lockheed Martin (FRP 1) ⁽¹⁰⁾ / Orlando, FL	SS / FFP	NAWCAD LKE	Feb 2017	Dec 2018	28	2,618K	Y		May 2016
1.2) eCASS ^(†)		2018	TBD (FRP 2) / TBD	C / FFP	NAWCAD LKE	Jun 2018	Dec 2019	26	2,483K	Y		Apr 2017
1.2) eCASS ^(†)		2019	TBD (FRP 2) / TBD	C / FFP	NAWCAD LKE	Mar 2019	Sep 2020	27	2,533K	Y		Apr 2018
^(†) indicates the presence of a P-21												
Footnotes:												
⁽⁹⁾ MFG PLT for LRIP 3 adjusted to provide continuity of production from LRIP 2 per contract award.												
⁽¹⁰⁾ Lockheed Martin offered a reduced MFG PLT to 13 months for FRP 1 FY16 to help offset FRP award schedule shift. In addition, rate of 4 systems per month is within Lockheed Martin capacity.												

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Exhibit P-21, Production Schedule: PB 2019 Navy																			Date: February 2018													
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 <i>(Units in Each)</i>							Fiscal Year 2015										Fiscal Year 2016										B A L A N C E					
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P	
1) Hardware																																
1.2) eCASS																																
Prior Years Deliveries: 36																																
	15	2015	NAVY	28	0	28				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	24
	16	2016	NAVY	35	0	35																										35
	16	2017	NAVY	28	0	28																										28
	17	2018	NAVY	26	0	26																										26
	17	2019	NAVY	27	0	27																										27
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2019 Navy																			Date: February 2018																		
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 <i>(Units in Each)</i>							Fiscal Year 2017															Fiscal Year 2018															BALANCE
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017															Calendar Year 2018															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
1) Hardware																																					
1.2) eCASS																																					
Prior Years Deliveries: 36																																					
	15	2015	NAVY	28	4	24	3	2	3	2	3	2	3	2	3	1																0					
	16	2016	NAVY	35	0	35					A -	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	7							
	16	2017	NAVY	28	0	28					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28							
	17	2018	NAVY	26	0	26																						A -	-	-	-	26					
	17	2019	NAVY	27	0	27																									27						
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							

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Exhibit P-21, Production Schedule: PB 2019 Navy																			Date: February 2018														
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 <i>(Units in Each)</i>							Fiscal Year 2019										Fiscal Year 2020										BALANCE						
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019										Calendar Year 2020																
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP		
1) Hardware																																	
1.2) eCASS																																	
Prior Years Deliveries: 36																																	
	15	2015	NAVY	28	28	0																									0		
	16	2016	NAVY	35	28	7	4	3																							0		
	16	2017	NAVY	28	0	28	-	-	2	3	2	3	2	3	2	3	2	2	2	2	2											0	
	17	2018	NAVY	26	0	26	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3	3	3	3	3	3	3	3	0			
	17	2019	NAVY	27	0	27											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	25
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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Exhibit P-21, Production Schedule: PB 2019 Navy																		Date: February 2018																			
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 <i>(Units in Each)</i>								Fiscal Year 2021														Fiscal Year 2022														BALANCE	
OCO	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT							Calendar Year 2021								Calendar Year 2022																
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
1) Hardware																																					
1.2) eCASS																																					
Prior Years Deliveries: 36																																					
	15	2015	NAVY	28	28	0																											0				
	16	2016	NAVY	35	35	0																											0				
	16	2017	NAVY	28	28	0																											0				
	17	2018	NAVY	26	26	0																											0				
	17	2019	NAVY	27	2	25																											0				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							

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Exhibit P-21, Production Schedule: PB 2019 Navy				Date: February 2018			
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	

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin (LRIP 3) ⁽⁹⁾ - Orlando, FL	24	30	36	0	4	19	23	0	0	0	0
2	Lockheed Martin (FRP 1) ⁽¹⁰⁾ - Orlando, FL	24	36	48	0	3	13	16	0	9	18	27
3	TBD (FRP 2) - TBD	24	36	48	0	9	16	25	0	9	18	27

"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⁾ MFG PLT for LRIP 3 adjusted to provide continuity of production from LRIP 2 per contract award.

⁽¹⁰⁾ Lockheed Martin offered a reduced MFG PLT to 13 months for FRP 1 FY16 to help offset FRP award schedule shift. In addition, rate of 4 systems per month is within Lockheed Martin capacity.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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		107,488.64	352	37.836	64,180.17	24	1.540	61,581.00	55	3.387	61,200.00	55	3.366	-	-	-	61,200.00	55	3.366
1.2) Complex Decomplex Tool	A		-	-	0.702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) Environmental Control Units ^(†)	A		7,487.22	587	4.395	-	-	-	5,113.64	44	0.225	5,125.00	40	0.205	-	-	-	5,125.00	40	0.205
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			-	-	74.051	-	-	1.540	-	-	3.612	-	-	3.571	-	-	-	-	-	3.571
2) ILS																				
2.1) Non-FMP Installations	A		-	-	18.788	-	-	1.107	-	-	1.275	-	-	1.284	-	-	-	-	-	1.284
Subtotal: 2) ILS			-	-	18.788	-	-	1.107	-	-	1.275	-	-	1.284	-	-	-	-	-	1.284
3) Production Engineering																				
3.1) Mobile Facility Vans	A		-	-	30.164	-	-	1.588	-	-	1.930	-	-	1.986	-	-	-	-	-	1.986
Subtotal: 3) Production Engineering			-	-	30.164	-	-	1.588	-	-	1.930	-	-	1.986	-	-	-	-	-	1.986
4) Miscellaneous Support																				
4.1) Publications	A		-	-	2.072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) Miscellaneous Support			-	-	2.072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	125.075	-	-	4.235	-	-	6.817	-	-	6.841	-	-	-	-	-	6.841
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																				

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
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		2017	Gichner Shelter / Dallastown, PA	C / IDDQ	NAWCAD LKE	Oct 2016	Apr 2017	24	64,180.17	Y		May 2012
1.1) Mobile Facility Vans		2018	Gichner Shelter / Dallastown, PA	C / IDDQ	NAWCAD LKE	Oct 2017	Apr 2018	55	61,581.00	Y		May 2012
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
1.3) Environmental Control Units		2018	Env. Sys. / Jacksonville, FL	C / FFP	NAWCAD LKE	Nov 2017	Apr 2018	44	5,113.64	Y		Nov 2011
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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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		1,125K	1	1.125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) A School - AME Environmental Control Systems (ECS) Trainers ⁽¹¹⁾	A		-	-	0.139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) A School - AE Electronic Classroom (ECR) Upgrades	A		-	-	0.442	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) A School - ATO/ATI Electronric Classroom (ECR) Upgrades	A		1,224K	1	1.224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) A School - ATO/ATI/ AE Electronic Classroom Tech Refresh ^(†)	A		-	-	-	1,109K	1	1.109	-	-	-	-	-	-	-	-	-	-	-	-
1.6) A School - AE Curriculum/ PC Simulation Upgrades ^(†)	A		2,580K	1	2.580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7) A School - Mobile Electric Power Plant (MEPP) Trainer	A		-	-	0.650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.8) ACTS - Expeditionary Laptop Upgrades ^{(12)(†)}	A		5,964.29	28	0.167	2,772.73	44	0.122	2,720.00	50	0.136	2,780.00	50	0.139	-	-	-	2,780.00	50	0.139
1.9) ACTS - Rustici Software Upgrade	A		-	-	0.030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.10) ACTS - MS Window 10 Enterprise Licenses	A		-	-	0.039	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.11) ACTS - CONUS/ CVN Server Upgrades	A		-	-	0.045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.12) ATC - 15G34 Tower Simulation System (TSS) Procurement	A		-	-	6.763	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.13) ATC - 15G30 Integrated Shipboard Information System (ISIS) HW Upgrades	A		-	-	0.207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.14) ATC - 15G30 Integrated Shipboard	A		-	-	0.163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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) SW Upgrades																				
1.15) ATC - Air Traffic Navigation, Integration & Coordination Sys (ATNAVICS)	A		-	-	0.683	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.16) ATC - 15G31 SATS Radar Labs 2&3 w/ VIDS Upgrades ^(†)	A		-	-	-	3,568K	1	3.568	-	-	-	-	-	-	-	-	-	-	-	-
1.17) ATC - STARS in ARATC 15G31 Upgrades ^{(13)(†)}	A		-	-	-	-	-	-	155,000.00	8	1.240	-	-	-	-	-	-	-	-	-
1.18) ATC - 15G33A Improved Precision Approach Trainer (IPART) Upgrades ^(†)	A		-	-	-	22,641.51	53	1.200	-	-	-	-	-	-	-	-	-	-	-	-
1.19) ATC - 15G30 Joint Precision Approach & Landing System (JPALS) Upgrades ^(†)	A		-	-	-	-	-	-	-	-	-	2,724K	2	5.447	-	-	-	2,724K	2	5.447
1.20) ATC - Courseware ^(†)	A		-	-	-	-	-	-	3,925K	1	3.925	-	-	-	-	-	-	-	-	-
1.25) ATC - Terminal Instrument Procedures (TERPS) Laptops ^(†)	A		-	-	-	2,500.00	12	0.030	-	-	-	-	-	-	-	-	-	-	-	-
1.26) NASTP - Mixed Gas Hypoxia Chambers ^(†)	A		429,625.00	8	3.437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.27) NASTP - Multi-Station Spatial Disorientation Demonstrator (MSDD)	A		-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.28) NASTP - Advanced Spatial Disorientation Curricula (ASD) ^(†)	A		300,000.00	1	0.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.29) NASTP - Reduced Oxygen Breathing Device (ROBD) Units	A		-	-	0.587	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.30) NASTP - Reduced Oxygen Breathing Device	A		-	-	0.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy	Date: February 2018
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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: GENERAL SKILLS TRAINING
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
(ROBD) Transport Carts																				
1.31) NASTP - Reduced Oxygen Breathing Device (ROBD) Accessories	A		-	-	0.157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.32) NASTP - Reduced Oxygen Breathing Device (Molecular Sieve) ^(†)	A		-	-	-	-	-	-	36,775.00	40	1.471	-	-	-	-	-	-	-	-	-
1.33) NASTP - Reduced Oxygen Breathing Device Win 10 Upgrade ^(†)	A		-	-	-	138,000.00	1	0.138	-	-	-	-	-	-	-	-	-	-	-	-
1.34) NASTP - Dynamic Ejection Trainer Tech Refresh	A		-	-	0.412	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.35) NASTP - Virtual Reality Parachute Descent Trainer (VRPDT) Win7 Upgrades	A		-	-	0.883	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.36) NASTP - 9H1 Helo Hoist Upgrades ^(†)	A		-	-	-	-	-	-	-	-	-	354,000.00	7	2.478	-	-	-	354,000.00	7	2.478
1.37) NASTP - Modular Egress Training System (METS) Upgrades ^(†)	A		-	-	-	-	-	-	34,000.00	1	0.034	-	-	-	-	-	-	-	-	-
1.39) NASTP - 9F2A & 9F2C Parachute in Water Motor Replacement ^(†)	A		-	-	-	-	-	-	91,000.00	7	0.637	-	-	-	-	-	-	-	-	-
1.40) NASTP - 9F9A Parachute Over Water Survival Trainer (POST) ^(†)	A		-	-	-	-	-	-	-	-	-	100,000.00	5	0.500	-	-	-	100,000.00	5	0.500
1.41) LSO - Training System Upgrades ^(†)	A		-	-	2.196	1,228K	1	1.228	-	-	-	-	-	-	-	-	-	-	-	-
1.42) Common ASW - Interactive Multi-Sensors Analysis Trainer (IMAT) Upgrades ^(†)	A		-	-	2.921	504,000.00	1	0.504	512,000.00	1	0.512	415,000.00	1	0.415	-	-	-	415,000.00	1	0.415

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018				
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
1.43) Common ASW - IMAT Java Applet Upgrade ^(†)	A		185,000.00	1	0.185	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.44) Common ASW - Tactical Acoustic Intelligence (ACINT) Product Upgrades	A		-	-	0.368	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Hardware			-	-	25.742	-	-	7.899	-	-	7.955	-	-	8.979	-	-	-	-	-	8.979
2) ILS																				
2.1) A School	A		-	-	0.115	-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-
2.2) ATC	A		-	-	0.600	-	-	0.199	-	-	0.154	-	-	0.124	-	-	-	-	-	0.124
2.3) NASTP	A		-	-	0.669	-	-	0.155	-	-	0.201	-	-	0.154	-	-	-	-	-	0.154
2.4) LSO	A		-	-	0.330	-	-	0.040	-	-	-	-	-	-	-	-	-	-	-	-
2.5) Common ASW	A		-	-	0.040	-	-	0.001	-	-	0.001	-	-	0.001	-	-	-	-	-	0.001
Subtotal: 2) ILS			-	-	1.754	-	-	0.415	-	-	0.356	-	-	0.279	-	-	-	-	-	0.279
3) Production Engineering																				
3.1) A School	A		-	-	0.457	-	-	0.105	-	-	-	-	-	-	-	-	-	-	-	-
3.2) ACTS	A		-	-	0.022	-	-	0.016	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
3.3) ATC	A		-	-	0.748	-	-	1.067	-	-	0.583	-	-	0.139	-	-	-	-	-	0.139
3.4) NASTP	A		-	-	6.159	-	-	0.359	-	-	0.310	-	-	0.320	-	-	-	-	-	0.320
3.5) LSO	A		-	-	0.983	-	-	0.053	-	-	-	-	-	-	-	-	-	-	-	-
3.6) Common ASW	A		-	-	1.666	-	-	0.118	-	-	0.005	-	-	0.091	-	-	-	-	-	0.091
Subtotal: 3) Production Engineering			-	-	10.035	-	-	1.718	-	-	0.901	-	-	0.553	-	-	-	-	-	0.553
4) Non Recurring																				
4.1) Common ASW	A		-	-	0.006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) Non Recurring			-	-	0.006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) Acceptance Testing																				
5.1) A School	A		-	-	0.072	-	-	0.018	-	-	-	-	-	-	-	-	-	-	-	-
5.2) ACTS	A		-	-	0.040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.3) ATC	A		-	-	0.090	-	-	0.055	-	-	0.044	-	-	0.043	-	-	-	-	-	0.043
5.4) NASTP	A		-	-	0.249	-	-	0.130	-	-	0.115	-	-	0.019	-	-	-	-	-	0.019
5.5) LSO	A		-	-	0.032	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-
5.6) Common ASW	A		-	-	0.102	-	-	0.001	-	-	0.001	-	-	0.001	-	-	-	-	-	0.001
Subtotal: 5) Acceptance Testing			-	-	0.585	-	-	0.206	-	-	0.160	-	-	0.063	-	-	-	-	-	0.063
6) Production Support																				
6.1) A School	A		-	-	0.316	-	-	0.151	-	-	-	-	-	-	-	-	-	-	-	-
6.2) ACTS	A		-	-	0.707	-	-	0.035	-	-	0.034	-	-	0.034	-	-	-	-	-	0.034
6.3) ATC	A		-	-	1.814	-	-	0.456	-	-	0.466	-	-	0.194	-	-	-	-	-	0.194

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018				
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
6.4) NASTP	A		-	-	1.655	-	-	0.226	-	-	0.404	-	-	0.189	-	-	-	-	-	0.189
6.5) LSO	A		-	-	0.582	-	-	0.026	-	-	-	-	-	-	-	-	-	-	-	-
6.6) Common ASW	A		-	-	0.181	-	-	0.001	-	-	0.147	-	-	0.169	-	-	-	-	-	0.169
Subtotal: 6) Production Support			-	-	5.255	-	-	0.895	-	-	1.051	-	-	0.586	-	-	-	-	-	0.586
Total			-	-	43.377	-	-	11.133	-	-	10.423	-	-	10.460	-	-	-	-	-	10.460

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

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

Footnotes:

⁽¹¹⁾ Applies to all Hardware Upgrades/Modernization efforts: Total quantity and cost of device Upgrades/Modernization may vary year to year. These Upgrades/Modernization efforts do not increase inventory since they are on existing devices (cost of Upgrading/Modernization of individual devices may vary due to various factors such as age, condition or current device capability) except for the following line items that do increase inventory quantities: 1.7, 1.8, 1.25, 1.26, 1.27, 1.29, 1.30, 1.31 and 1.40.

⁽¹²⁾ ACTS Expeditionary Laptop - FY16 delivery delayed due to manufacturer in bankruptcy.

⁽¹³⁾ ATC - Standard Terminal Automation Replacement System (STARS) in Advanced Radar Air Traffic Control (ARATC) Upgrades

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
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]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Hardware												
1.1) A School - Catapult Launch Trainer		2015	NAWCTSD / Orlando, FL	PO	NAWCTSD	Jul 2017	Sep 2019	1	1,125K	Y		
1.5) A School - ATO/ ATI/ AE Electronic Classroom Tech Refresh		2017	T.J. Drafting & Design Corp / Pensacola, FL	C / FFP	NAWCTSD	Aug 2017	Aug 2018	1	1,109K	Y		Oct 2016
1.6) A School - AE Curriculum/PC Simulation Upgrades		2016	Sonalysts Inc. / Waterford, CT	C / FFP	NAVSUP	May 2017	Mar 2019	1	1,346K	Y		Nov 2015
1.8) ACTS - Expeditionary Laptop Upgrades ⁽¹²⁾		2016	Federal Business Systems Corp / Chantilly, VA	C / FFP	NAWCTSD	Dec 2017	Apr 2018	28	3,214.29	Y		Oct 2017
1.8) ACTS - Expeditionary Laptop Upgrades ⁽¹²⁾		2017	AGSI, LLC / Lovettsville, VA	C / FFP	NAWCTSD	Apr 2017	May 2017	44	2,772.73	Y		Jan 2017
1.8) ACTS - Expeditionary Laptop Upgrades ⁽¹²⁾		2018	TBD / TBD	C / FFP	NAWCTSD	Mar 2018	Apr 2018	50	2,720.00	Y		Jan 2018
1.8) ACTS - Expeditionary Laptop Upgrades ⁽¹²⁾		2019	TBD / TBD	C / FFP	NAWCTSD	Apr 2019	May 2019	50	2,780.00	Y		Jan 2019
1.16) ATC - 15G31 SATS Radar Labs 2&3 w/ VIDS Upgrades		2017	Symvionics, Inc / Arcadia, CA	C / FFP	NAWCTSD	Apr 2017	Sep 2018	1	3,568K	Y		Nov 2016
1.17) ATC - STARS in ARATC 15G31 Upgrades ⁽¹³⁾		2018	NAWCTSD / Orlando, FL	PO	NAWCTSD	Feb 2018	Aug 2019	8	155,000.00	Y		
1.18) ATC - 15G33A Improved Precision Approach Trainer (IPART) Upgrades		2017	NAWCTSD / Orlando, FL	PO	NAWCTSD	Jan 2017	Jan 2018	53	22,641.51	Y		
1.19) ATC - 15G30 Joint Precision Approach & Landing System (JPALS) Upgrades		2019	TBD / TBD	C / FFP	NAWCTSD	Feb 2019	Jun 2020	2	2,724K	N	Aug 2018	Sep 2018
1.20) ATC - Courseware		2018	TBD / TBD	C / FFP	NAWCTSD	Mar 2018	Apr 2020	1	3,925K	Y		Jul 2017
1.25) ATC - Terminal Instrument Procedures (TERPS) Laptops		2017	TBD / TBD	C / FFP	NAWCTSD	Jan 2018	Feb 2018	12	2,500.00	Y		Oct 2017
1.26) NASTP - Mixed Gas Hypoxia Chambers		2015	NAWCTSD / Orlando, FL	PO	NAWCTSD	Dec 2016	Feb 2018	6	478,833.33	Y		
1.26) NASTP - Mixed Gas Hypoxia Chambers		2016	NAWCTSD / Orlando, FL	PO	NAWCTSD	Dec 2016	Dec 2018	2	282,000.00	Y		
1.28) NASTP - Advanced Spatial Disorientation Curricula (ASD)		2016	NAWCTSD / Orlando, FL	PO	NAWCTSD	Jul 2017	May 2018	1	300,000.00	Y		
1.32) NASTP - Reduced Oxygen Breathing Device (Molecular Sieve)		2018	TBD / TBD	C / FFP	NAWCTSD	Mar 2018	Oct 2018	40	36,775.00	Y		Jun 2017
1.33) NASTP - Reduced Oxygen Breathing Device Win 10 Upgrade		2017	NAWCTSD / Orlando, FL	PO	NAWCTSD	Apr 2017	Dec 2017	1	138,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
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]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.36) NASTP - 9H1 Helo Hoist Upgrades		2019	TBD / TBD	C / FFP	NAWCTSD	Mar 2019	Sep 2019	7	354,000.00	Y		Oct 2018
1.37) NASTP - Modular Egress Training System (METS) Upgrades		2018	TBD / TBD	C / FFP	NAWCAD TSD	Jan 2018	Mar 2018	1	34,000.00	Y		Jan 2018
1.39) NASTP - 9F2A & 9F2C Parachute in Water Motor Replacement		2018	NAWCTSD / Orlando, FL	PO	NAWCTSD	Jan 2018	Dec 2018	7	91,000.00	Y		
1.40) NASTP - 9F9A Parachute Over Water Survival Trainer (POST)		2019	TBD / TBD	C / FFP	NAWCTSD	Mar 2019	Sep 2019	5	100,000.00	Y		Oct 2018
1.41) LSO - Training System Upgrades		2017	Cubic Defense Applications / San Diego, CA	C / FFP	NAWCAD TSD	Nov 2017	Mar 2018	1	1,228K	Y		Sep 2017
1.42) Common ASW - Interactive Multi-Sensors Analysis Trainer (IMAT) Upgrades		2017	General Dynamics IT Division / Fairfax, VA	C / CPFF	NSWC Carderock	May 2017	May 2018	1	504,000.00	Y		May 2012
1.42) Common ASW - Interactive Multi-Sensors Analysis Trainer (IMAT) Upgrades		2018	General Dynamics IT Division / Fairfax, VA	C / CPFF	NSWC Carderock	Jan 2018	Jan 2019	1	512,000.00	Y		May 2012
1.42) Common ASW - Interactive Multi-Sensors Analysis Trainer (IMAT) Upgrades		2019	General Dynamics IT Division / Fairfax, VA	C / CPFF	NSWC Carderock	Oct 2018	Oct 2019	1	415,000.00	Y		May 2012
1.43) Common ASW - IMAT Java Applet Upgrade		2015	General Dynamics IT Division / Fairfax, VA	C / CPFF	NSWC Carderock	Sep 2017	Mar 2018	1	185,000.00	Y		May 2012

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018							
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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. ^(†) indicates the presence of a P-5a																							

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1			P-1 Line Item Number / Title: 0705 / Common Ground Equipment					Aggregated Items: TOPSCENE				
Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Mission Rehearsal Pre-Planned (Topscene)												
1.1) Product Improvement ^(†)		2015	LOCKHEED MARTIN / Dallas, TX	SS / FFP	Navair	Sep 2015	Dec 2016	1	863,000.00	Y		Nov 2014
1.1) Product Improvement ^(†)		2016	LOCKHEED MARTIN / Dallas, TX	SS / FFP	Navair	Mar 2016	Jun 2017	1	1,589K	Y		Nov 2014
^(†) indicates the presence of a P-21												

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018																					
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1										P-1 Line Item Number / Title: 0705 / Common Ground Equipment										Aggregated Items: TOPSCENE																					
Items (Units in Each)							Fiscal Year 2015										Fiscal Year 2016														BALANCE										
OCO	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016																								
							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) Mission Rehearsal Pre-Planned (Topscene)																																									
1.1) Product Improvement																																									
Prior Years Deliveries: 4																																									
	18	2015	NAVY		1	0	1											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1						
	18	2016	NAVY		1	0	1																					A	-	-	-	-	-	-	-	-	-	-	-	-	1
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP											

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Exhibit P-21, Production Schedule: PB 2019 Navy																			Date: February 2018													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1										P-1 Line Item Number / Title: 0705 / Common Ground Equipment										Aggregated Items: TOPSCENE												
Items <i>(Units in Each)</i>							Fiscal Year 2017										Fiscal Year 2018										BALANCE					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017										Calendar Year 2018															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P	
1) Mission Rehearsal Pre-Planned (Topscene)																																
1.1) Product Improvement																																
Prior Years Deliveries: 4																																
	18	2015	NAVY	1	0	1	-	-	1																							0
	18	2016	NAVY	1	0	1	-	-	-	-	-	-	-	-	1																	0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2019 Navy				Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1			P-1 Line Item Number / Title: 0705 / Common Ground Equipment			Aggregated Items: TOPSCENE	

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	LOCKHEED MARTIN - Dallas, TX				0	0	0	0	0	0	15	15

"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-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 ^{(14)(†)}	A		12,354K	1	12.354	3,912K	1	3.912	-	-	-	-	-	-	-	-	-	-	-	-
1.2) CNATRA - TH-57 Projectors	A		-	-	1.145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) CNATRA - TH-57 Instructor Operator Station Upgrade	A		-	-	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) CNATRA - T-6 Win 10 Upgrades ^(†)	A		12,330K	1	12.330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) CNATRA - T-6 IOS Joystick & Throttle Mod Upgrades	A		-	-	0.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) CNATRA- T-45 Win 10 Image Gen Sys Servers Upgrades	A		-	-	2.533	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7) CNATRA - T-45 Win 10 Instructor Operator Station Computer Upgrades	A		-	-	0.441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.8) CNATRA - T-45 Win 10 Aural Cues Computers Upgrades	A		123,000.00	1	0.123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.9) CNATRA - T-45 UMFO - Win 10 ViTech Driver	A		-	-	0.028	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.10) CNATRA - T-45 Win 10 Virtual IO SW Upgrades	A		-	-	0.146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.11) E-6 - Interactive Avionic Trainer Rehost ^(†)	A		-	-	3.408	1,960K	1	1.960	-	-	-	-	-	-	-	-	-	-	-	-
1.12) E-6 OFT Tech Modernization ^(†)	A		-	-	-	-	-	-	2,013K	1	2.013	2,061K	1	2.061	-	-	-	2,061K	1	2.061
1.13) E-6 - Windows 7 Upgrades	A		78,250.00	12	0.939	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.14) E-6 - Windows 10 Upgrade	A		126,000.00	1	0.126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.15) EP-3 - 10H1 Device Upgrades	A		-	-	5.463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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) FA-18 - Equipment Modernization ^(t)	A		4,714K	4	18.855	3,922K	1	3.922	-	-	-	-	-	-	-	-	-	-	-	-	
1.17) FA-18 - Equipment Modernization Phase I	A		3,919K	1	3.919	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.18) FA-18 - Equipment Modernization Phase II ^(t)	A		3,978K	1	3.978	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.19) P-3C - 2F179A TORT Windows 7 Upgrades	A		-	-	0.806	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.20) P-3C - 14B59 FDT Windows 7 Upgrades	A		-	-	0.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.21) P-3C - 2F87 OFT Tech Refresh	A		-	-	0.924	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.22) P-3C - 2F179A TORT Tech Refresh	A		-	-	1.009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.23) UMFO Training - MCS Block 1B	A		-	-	3.863	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.24) USMC Fed Sim - Aviation Dist Virtual Trng Environ (ADVTE) Modernization ^{(15)(t)}	A		-	-	5.073	-	-	-	-	-	-	19,346K	2	38.692	-	-	-	19,346K	2	38.692	
1.25) USMC Fed Sim - Marine Common Aircrew Trainer (MCAT) Upgrades	A		-	-	0.950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.26) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) ^{(16)(t)}	A		11,000K	5	55.000	-	-	-	9,450K	2	18.900	-	-	-	-	-	-	-	-	-	
1.27) USMC Fed Sim - MCAT GFE UH-1Y Weapons Mounts	A		-	-	1.739	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.28) USMC Fed Sim - MCAT GFE CH-53 Weapons Mounts	A		-	-	1.306	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.29) USMC Fed Sim - MCAT GFE MV-22 Weapons Mounts	A		-	-	0.554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.30) USMC Fed Sim - CH-53E CFTD Modernization ^(t)	A		-	-	-	6,631K	1	6.631	-	-	-	-	-	-	-	-	-	-	-	-	

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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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
1.31) USMC Fed Sim - CH-53E Aircrew Procedure Trnr (APT) Modernization	A		-	-	8.616	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.32) USMC Fed Sim - CH-53E OCONUS Aircrew Procedures Trainer (APT) ^(t)	A		-	-	-	11,063K	1	11.063	-	-	-	-	-	-	-	-	-	-	-	-
1.33) USMC Fed Sim - CH-53E Weapon System Trainer (WST) Modernization	A		5,356K	2	10.711	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.34) USMC Fed Sim - KC-130J Weapons System Trainer (WST) Modernization ^{(17)(t)}	A		6,955K	1	6.955	-	-	-	-	-	-	8,007K	2	16.014	-	-	-	8,007K	2	16.014
1.35) USMC Fed Sim - KC-130J OCONUS Wpn Sys Trainer (WST) Modernization	A		16,948K	1	16.948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.36) USMC Fed Sim - AH-1Z Flight Training Device (FTD) Modernization ^{(18)(t)}	A		-	-	0.032	-	-	-	3,250K	1	3.250	-	-	-	-	-	-	-	-	-
1.37) USMC Fed Sim - AH-1Z Full Flight Simulator (FFS) Modernization ^(t)	A		-	-	7.329	-	-	-	1,625K	2	3.250	-	-	-	-	-	-	-	-	-
1.38) USMC Fed Sim - UH-1Y Flight Training Device (FTD) Modernization ^{(19)(t)}	A		-	-	7.530	-	-	-	3,125K	2	6.250	-	-	-	-	-	-	-	-	-
1.39) USMC Fed Sim - UH-1Y Full Flight Simulator (FFS) Modernization ^{(20)(t)}	A		-	-	8.192	3,250K	1	3.250	-	-	-	-	-	-	-	-	-	-	-	-
1.40) USMC Fed Sim - MV-22 CFTD Modernization ^(t)	A		-	-	-	4,050K	4	16.200	-	-	-	4,048K	4	16.190	-	-	-	4,048K	4	16.190
1.41) USMC Fed Sim - FA-18 C/D Tact Operational Flt Trnr (TOFT) Modernization ^(t)	A		3,115K	2	6.230	1,130K	6	6.778	-	-	-	-	-	-	-	-	-	-	-	-
1.43) USMC Fed Sim - AV-8B Weapons Systems Trainer	A		-	-	-	-	-	-	7,925K	5	39.625	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018				
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
(WST) Modernization (21)(t)																				
1.44) USMC Fed Sim - AV-8B Maintenance Trainer (MT) Modernization	A		-	-	3.685	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.45) USMC Fed Sim - AV-8B Deployable Mission Rehearsal Trainer (DMRT)(t)	A		1,051K	8	8.409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.46) USMC Fed Sim - AV-8B DMRT Modernization(t)	A		13,125.00	8	0.105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.47) USMC Fed Sim - VH-3D Aircrew Procedures Trainer (APT) Modernization	A		-	-	0.937	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.48) USMC Fed Sim - VH-3D APT Visual Database Upgrades	A		-	-	0.995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.49) USMC Fed Sim - VH-60N CFTD Visual Database Upgrade	A		-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.51) USMC Fed Sim - USMC Training Continuum Integration Upgrades	A		-	-	0.426	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.52) USMC Fed Sim - CH-53E TCI Basic Training Courseware Upgrades	A		-	-	0.279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.53) USMC Fed Sim - AV-8B - Scan Converter Upgrade(t)	A		-	-	-	1,200.00	5	0.006	-	-	-	-	-	-	-	-	-	-	-	-
1.54) E-2/C-2 - C2 Operational Flight Trainer (OFT) Tech Upgrades(t)	A		6,793K	2	13.586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.55) E-2/C-2 - C2 OFT ASTi Digital Aural Comms Sys Upgrades(t)	A		-	-	-	161,000.00	1	0.161	-	-	-	-	-	-	-	-	-	-	-	-
1.56) E-2/C-2 - Enhanced Distributed Readiness Trainer	A		-	-	0.545	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
(EDRT) Tech Upgrades																				
1.58) E-2/C-2 - E-2 Cooperative Engagement Capability (CEC) Upgrades ^(†)	A		-	-	-	320,000.00	1	0.320	-	-	-	-	-	-	-	-	-	-	-	-
1.59) E-2/C-2 - E-2 Win 10 Upgrade ^{(22)(†)}	A		-	-	-	744,000.00	1	0.744	-	-	-	-	-	-	-	-	-	-	-	-
1.60) MH-53 - AMCM Stream & Recovery Mod (ASRM) Upgrades ^(†)	A		-	-	1.964	229,000.00	1	0.229	-	-	-	-	-	-	-	-	-	-	-	-
1.61) MH-53 - 2H165 Config and Cargo Load Procedures Trainer (CCLPT) Upgrades ^(†)	A		-	-	1.033	-	-	-	375,000.00	1	0.375	-	-	-	-	-	-	-	-	-
1.62) MH-53 - CCLPT/ Operational Flight Trainer (OFT)/ASRM Upgrades ^(†)	A		-	-	1.740	350,000.00	1	0.350	187,000.00	1	0.187	221,000.00	1	0.221	-	-	-	221,000.00	1	0.221
1.63) MH-53 - 2H162 Enhanced Aircrew External Trainer Upgrades	A		-	-	0.662	-	-	-	-	-	-	350,000.00	1	0.350	-	-	-	350,000.00	1	0.350
1.64) NASMP - Navy Continuous Training Environment (NCTE) Nodes Upgrades ^(†)	A		-	-	1.281	-	-	-	450,000.00	1	0.450	-	-	-	-	-	-	-	-	-
1.65) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) ^(†)	A		7,880K	4	31.522	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.66) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) Upgrades ^(†)	A		-	-	0.064	-	-	-	-	-	-	10,000.00	1	0.010	-	-	-	10,000.00	1	0.010
1.67) NASMP - MH-60S Technology Refresh Upgrades ^(†)	A		11,701K	3	35.102	-	-	-	9,120K	1	9.120	-	-	-	-	-	-	-	-	-
1.68) NASMP - MH-60R Technology Refresh Upgrades ^(†)	A		6,235K	2	12.470	9,817K	1	9.817	96,000.00	1	0.096	-	-	-	-	-	-	-	-	-

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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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)	
1.69) NASMP - MH-60R/S TRPS Telestra Upgrade ^(†)	A		-	-	-	65,000.00	1	0.065	-	-	-	-	-	-	-	-	-	-	-	-	
1.70) NASMP - MH-60R Naval Aircrew Training Systems (NATS) ^(†)	A		9,191K	3	27.572	6,272K	1	6.272	-	-	-	-	-	-	-	-	-	-	-	-	
1.71) NASMP - MH-60R Naval Aircrew Training Systems (NATS) Upgrades ^(†)	A		-	-	0.039	-	-	-	-	-	-	9,000.00	1	0.009	-	-	-	9,000.00	1	0.009	
1.72) NASMP - MH-60 Threat Attributes Production (JSAF)	A		-	-	0.798	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.73) NASMP - MH-60 WIN 10 Upgrade ^(†)	A		-	-	-	396,000.00	1	0.396	-	-	-	-	-	-	-	-	-	-	-	-	
1.74) NASMP - FA/EA-18 - System Fidelity Upgrades (TECR)	A		-	-	15.434	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.75) NASMP - FA/EA-18 Next Generation Threat System (NGTS) V3.2 Upgrades	A		6,250K	1	6.250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.76) NASMP - FA/EA-18 NGTS v3.2 Upgrades ^(†)	A		14,760K	1	14.760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.78) NASMP - FA/EA-18 Visual Display Upgrades	A		-	-	15.036	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.79) NASMP - FA/EA-18 COMMS Upgrades ^(†)	A		5,180K	1	5.180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.80) NASMP - FA/EA-18 Weps Fidelity Upgrades ^(†)	A		-	-	-	-	-	-	10,641K	1	10.641	-	-	-	-	-	-	-	-	-	
1.81) NASMP - FA/EA-18 Seat Upgrades	A		-	-	15.964	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.82) NASMP - FA/EA-18 Blue Forces, Threat, Terrain VDB Upgrades ^(†)	A		-	-	-	-	-	-	12,548K	1	12.548	-	-	-	-	-	-	-	-	-	
1.83) NASMP - FA/EA-18 Airborne	A		-	-	-	8,239K	1	8.239	-	-	-	-	-	-	-	-	-	-	-	-	

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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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
Electronic Attack (AEA) Model Fidelity Upgs ^(†)																				
1.84) NASMP - FA/EA-18 APG-79 AESA Fidelity Upgrades ^(†)	A		-	-	-	5,950K	1	5.950	-	-	-	-	-	-	-	-	-	-	-	-
1.85) NASMP - FA/EA-18 APG-73 Fidelity Upgrade ^(†)	A		3,477K	1	3.477	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.86) NASMP - FA/EA-18 Electro-Optical/Infra-Red (EO/IR) Upgrades ^(†)	A		2,700K	1	2.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.87) NASMP - FA/EA-18 SAN Disk Upgrades	A		569,695.65	23	13.103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.88) NASMP - FA/EA-18 Cockpit HW Upgrades ^(†)	A		-	-	-	-	-	-	-	-	-	249,120.00	25	6.228	-	-	-	249,120.00	25	6.228
1.89) NASMP - FA/EA-18 NASMP 1.4 / Fleet Synthetic Training (FST) Upgrades ^(†)	A		6,806K	1	6.806	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.90) NASMP - FA/EA-18 Malfunctions Fidelity Upgrades ^(†)	A		-	-	-	-	-	-	7,885K	1	7.885	-	-	-	-	-	-	-	-	-
1.91) NASMP - FA/EA-18 Aural Cueing HW Upgrades	A		-	-	8.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.92) NASMP - FA/EA-18 MIDS Fidelity Upgrades ^(†)	A		5,851K	1	5.851	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.94) NASMP - FA/EA-18 Windows 7 Upgrades	A		-	-	1.499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.95) NASMP - FA/EA-18 - TOFT Mission Upgrades	A		-	-	1.543	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.96) NASMP - FA/EA-18 - TOFT Software Gold Disk Upgrade ^(†)	A		-	-	1.161	1,138K	1	1.138	-	-	-	-	-	-	-	-	-	-	-	-
1.97) NASMP - Common Acoustic Simulation	A		12,985K	1	12.985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)	
Environment (CASE) Upgrades ^(†)																					
1.98) NASMP - CASE MH-60R TOFT #4 Integration ^(†)	A		-	-	-	886,000.00	1	0.886	-	-	-	-	-	-	-	-	-	-	-	-	
1.99) NASMP - CASE FI - Integration in TOFTS 1-3, 5-7, 12-14 Phase I ^(†)	A		-	-	-	-	-	-	-	-	-	247,000.00	1	0.247	-	-	-	247,000.00	1	0.247	
1.100) NASMP - CASE FI - Integration in TOFTS 1-3, 5-7, 12-14 Phase II ^(†)	A		-	-	-	-	-	-	-	-	-	196,000.00	1	0.196	-	-	-	196,000.00	1	0.196	
1.101) NASMP - CASE MH-60R TOFT Integration Manned Flight Simulator (MFS) ^(†)	A		-	-	-	821,000.00	1	0.821	-	-	-	-	-	-	-	-	-	-	-	-	
1.102) NASMP - CASE Data Set ^(†)	A		700,000.00	1	0.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.103) NASMP - MH-60R/S NGTS Integration ^(†)	A		-	-	-	6,200K	1	6.200	-	-	-	-	-	-	-	-	-	-	-	-	
1.104) NASMP - Cross Domain Solution (CDS) Upgrades ^(†)	A		-	-	-	-	-	-	-	-	-	1,500K	1	1.500	-	-	-	1,500K	1	1.500	
1.110) NASMP - E-6B Tech Refresh	A		1,130K	1	1.130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.114) NASMP - Navy Electronic Warfare Tactical Training Database (NEWTT DB)	A		-	-	0.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.115) NASMP - Navy Aviation Distributed Training Center (NADTC) 1.0	A		-	-	1.950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.116) NASMP - Navy Aviation Distributed Training Center (NADTC) 2.0 ^(†)	A		-	-	-	3,700K	1	3.700	-	-	-	-	-	-	-	-	-	-	-	-	
1.117) NASMP - FA-18 IOS-BDS-MOC Stores Management Fidelity ^{(23)(†)}	A		-	-	-	-	-	-	5,507K	1	5.507	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 - FA-18 IOS-BDS-MOC Ownship ^(†)	A		-	-	-	-	-	-	-	-	-	10,218K	1	10.218	-	-	-	10,218K	1	10.218
1.119) NASMP - FA-18 IOS-BDS-MOC Targets/Maps Fidelity ^(†)	A		-	-	-	-	-	-	-	-	-	7,833K	1	7.833	-	-	-	7,833K	1	7.833
1.120) NASMP - FA-18 Common IOS-BDS-MOC Console & Displays Fidelity ^(†)	A		-	-	-	-	-	-	-	-	-	11,559K	1	11.559	-	-	-	11,559K	1	11.559
1.121) NASMP - FA-18 IOS-BDS-MOC Audio Control Fidelity ^(†)	A		-	-	-	-	-	-	-	-	-	7,836K	1	7.836	-	-	-	7,836K	1	7.836
1.122) NASMP - FA-18 Host Computer Tech Refresh ^(†)	A		-	-	-	-	-	-	-	-	-	6,562K	1	6.562	-	-	-	6,562K	1	6.562
1.123) LVC - Next Generation Threat System Upgrades ^(†)	A		2,148K	1	2.148	-	-	-	200,000.00	1	0.200	-	-	-	-	-	-	-	-	-
1.124) LVC - Integrated Training Facility (ITF) ⁽²⁴⁾	A		-	-	1.183	-	-	11.528	-	-	20.346	-	-	14.520	-	-	-	-	-	14.520
Subtotal: 1) Hardware			-	-	490.647	-	-	110.538	-	-	140.643	-	-	140.246	-	-	-	-	-	140.246
2) ILS																				
2.1) CNATRA ⁽²⁵⁾	A		-	-	0.935	-	-	0.974	-	-	-	-	-	-	-	-	-	-	-	-
2.2) E-6	A		-	-	0.476	-	-	0.057	-	-	0.070	-	-	0.057	-	-	-	-	-	0.057
2.3) EP-3	A		-	-	0.353	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4) FA-18	A		-	-	0.971	-	-	0.093	-	-	-	-	-	-	-	-	-	-	-	-
2.5) P-3C	A		-	-	0.242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.6) UMFO Training	A		-	-	1.095	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.7) USMC Federation Simulators	A		-	-	11.164	-	-	1.894	-	-	1.673	-	-	1.681	-	-	-	-	-	1.681
2.8) E-2/C-2	A		-	-	0.988	-	-	0.560	-	-	-	-	-	-	-	-	-	-	-	-
2.9) MH-53	A		-	-	0.836	-	-	0.164	-	-	0.190	-	-	0.193	-	-	-	-	-	0.193
2.10) NASMP	A		-	-	7.567	-	-	1.515	-	-	1.966	-	-	1.498	-	-	-	-	-	1.498
2.11) LVC	A		-	-	0.046	-	-	0.220	-	-	0.216	-	-	0.290	-	-	-	-	-	0.290
Subtotal: 2) ILS			-	-	24.673	-	-	5.477	-	-	4.115	-	-	3.719	-	-	-	-	-	3.719
3) Production Engineering																				
3.1) CNATRA	A		-	-	3.728	-	-	3.305	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy																Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)	
3.2) E-6	A		-	-	2.443	-	-	0.498	-	-	0.283	-	-	0.468	-	-	-	-	-	0.468	
3.3) EP-3	A		-	-	0.913	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.4) FA-18	A		-	-	15.272	-	-	2.348	-	-	-	-	-	-	-	-	-	-	-	-	
3.5) P-3C	A		-	-	0.666	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.6) UMFO Training	A		-	-	4.547	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.7) USMC Federation Simulators	A		-	-	34.519	-	-	3.679	-	-	3.402	-	-	3.348	-	-	-	-	-	3.348	
3.8) E-2/C-2	A		-	-	2.330	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-	
3.9) MH-53	A		-	-	1.074	-	-	0.232	-	-	0.254	-	-	0.258	-	-	-	-	-	0.258	
3.10) NASMP	A		-	-	71.441	-	-	8.676	-	-	12.800	-	-	13.056	-	-	-	-	-	13.056	
3.11) LVC	A		-	-	0.897	-	-	1.357	-	-	0.648	-	-	1.226	-	-	-	-	-	1.226	
Subtotal: 3) Production Engineering			-	-	137.830	-	-	21.095	-	-	17.387	-	-	18.356	-	-	-	-	-	18.356	
4) Acceptance Testing																					
4.1) CNATRA	A		-	-	0.514	-	-	0.487	-	-	-	-	-	-	-	-	-	-	-	-	
4.2) E-6	A		-	-	0.180	-	-	0.039	-	-	0.034	-	-	0.037	-	-	-	-	-	0.037	
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		-	-	1.949	-	-	0.442	-	-	0.565	-	-	0.403	-	-	-	-	-	0.403	
4.7) E-2/C-2	A		-	-	-	-	-	0.289	-	-	-	-	-	-	-	-	-	-	-	-	
4.8) NASMP	A		-	-	5.828	-	-	1.345	-	-	2.231	-	-	1.795	-	-	-	-	-	1.795	
4.9) LVC	A		-	-	0.514	-	-	0.751	-	-	0.516	-	-	0.715	-	-	-	-	-	0.715	
Subtotal: 4) Acceptance Testing			-	-	10.011	-	-	3.353	-	-	3.346	-	-	2.950	-	-	-	-	-	2.950	
5) Production Support																					
5.1) CNATRA	A		-	-	1.975	-	-	1.762	-	-	-	-	-	-	-	-	-	-	-	-	
5.2) E-6	A		-	-	1.433	-	-	0.217	-	-	0.451	-	-	0.275	-	-	-	-	-	0.275	
5.3) EP-3	A		-	-	1.987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.4) FA-18	A		-	-	2.212	-	-	0.180	-	-	-	-	-	-	-	-	-	-	-	-	
5.5) P-3C	A		-	-	1.976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.6) UMFO Training	A		-	-	2.410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.7) E-2/C-2	A		-	-	1.212	-	-	0.406	-	-	-	-	-	-	-	-	-	-	-	-	
5.8) MH-53	A		-	-	0.779	-	-	0.232	-	-	0.236	-	-	0.240	-	-	-	-	-	0.240	
5.9) USMC Federation Simulators	A		-	-	28.114	-	-	4.668	-	-	4.056	-	-	4.237	-	-	-	-	-	4.237	
5.10) NASMP	A		-	-	43.791	-	-	8.012	-	-	11.152	-	-	10.638	-	-	-	-	-	10.638	
5.11) LVC	A		-	-	0.566	-	-	0.642	-	-	0.340	-	-	0.665	-	-	-	-	-	0.665	
Subtotal: 5) Production Support			-	-	86.455	-	-	16.119	-	-	16.235	-	-	16.055	-	-	-	-	-	16.055	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
Total			-	-	749.616	-	-	156.582	-	-	181.726	-	-	181.326	-	-	-	-	-	181.326

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:

- ⁽¹⁴⁾ Applies to all Hardware Upgrades/Modernization efforts: Total quantity and cost of device Upgrades/Modernization may vary year to year. These Upgrades/Modernization efforts do not increase inventory since they are on existing devices (cost of Upgrading/Modernization of individual devices may vary due to various factors such as age, condition or current device capability) except for the following line items that do increase inventory quantities: 1.26, 1.45, 1.65 and 1.70.
- ⁽¹⁵⁾ USMC Fed Sim - Aviation Dist Virtual Trng Environ (ADVTE) Modernization cost in FY19 reflects current estimates for modernization and incorporation of additional OCONUS Marine Aviation Training System Sites
- ⁽¹⁶⁾ USMC Fed Sim - MCAT Containerized Flight Trng Dev (CFTD) renamed to USMC Fed Sim -Marine Common Aircrew Trainer (MCAT). Funding in FY18 to replace 2 obsolete fielded devices with 2 new production units.
- ⁽¹⁷⁾ USMC Fed Sim - KC-130J Weapons System Trainer (WST) Modernization funding moved to FY19 to better align with standard 5 year upgrade cycle.
- ⁽¹⁸⁾ USMC Fed Sim - AH-1Z Flight Training Device (FTD) Modernization funding decreased from PB18 in FY18 to match current estimates
- ⁽¹⁹⁾ USMC Fed Sim - UH-1Y Flight Training Device (FTD) Modernization funding decreased from PB18 in FY18 to match current estimates
- ⁽²⁰⁾ USMC Fed Sim - UH-1Y Full Flight Simulator (FFS) Modernization funding decreased from PB18 in FY18 to match current estimates
- ⁽²¹⁾ USMC Fed Sim - AV-8B Weapons System Trainer (WST) Modernization funding in FY18 to complete upgrades at Yuma (Qty 2) and Cherry Point (Qty 3)
- ⁽²²⁾ E-2/C-2 - E-2 Distributed Training Upgrades renamed to E-2/C-2 - E-2 Win 10 Upgrade
- ⁽²³⁾ Instructor Operator Station (IOS)-Brief Debrief Station (BDS)-Mission Operations Center (MOC)
- ⁽²⁴⁾ 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.
- ⁽²⁵⁾ FY17 CNATRA costs will fund delivery support through FY19.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
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]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Hardware												
1.1) CNATRA - T-45 Operational Flight Trainer (OFT) Upgrades ⁽¹⁴⁾		2014	ASI / Tampa, FL	C / FFP	NAWCTSD	Oct 2015	Apr 2018	1	12,354K	Y		Apr 2015
1.1) CNATRA - T-45 Operational Flight Trainer (OFT) Upgrades ⁽¹⁴⁾		2017	ASI / Tampa, FL	C / FFP	NAWCTSD	Dec 2016	Sep 2019	1	3,912K	Y		Apr 2015
1.4) CNATRA - T-6 Win 10 Upgrades		2016 ⁽²⁶⁾	Flight Safety Int. / Centennial, CO	MIPR	NAWCTSD	Jan 2017	May 2018	1	12,330K	Y		Jan 2016
1.11) E-6 - Interactive Avionic Trainer Rehost		2017	Triton JV, LLC / Orlando, FL	C / FFP	NAWCTSD	Nov 2016	Mar 2018	1	1,960K	Y		Feb 2015
1.12) E-6 OFT Tech Modernization		2018	TBD / TBD	C / FP	NAWCTSD	Mar 2018	Mar 2019	1	2,013K	Y		Jan 2018
1.12) E-6 OFT Tech Modernization		2019	TBD / TBD	C / FP	NAWCTSD	Nov 2018	Nov 2019	1	2,061K	Y		Jan 2018
1.16) FA-18 - Equipment Modernization		2017	L3 Communications / Arlington, VA	SS / FFP	NAWCTSD	Feb 2017	Nov 2019	1	3,922K	Y		Dec 2016
1.18) FA-18 - Equipment Modernization Phase II		2016	L-3 Communications / Arlington, VA	SS / FFP	NAWCTSD	Feb 2017	Mar 2018	1	3,978K	Y		Dec 2016
1.24) USMC Fed Sim - Aviation Dist Virtual Trng Environ (ADVTE) Modernization ⁽¹⁵⁾		2019	Veraxx / Chantilly, VA	SS / FFP	NAWCTSD	Oct 2018	Oct 2020	2	19,346K	Y		Apr 2018
1.26) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) ^{(16)(t)}		2014	Kratos Technology / San Diego, CA	C / FFP	NAWCTSD	Aug 2016	May 2019	2	11,100K	Y		Oct 2015
1.26) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) ^{(16)(t)}		2015	Kratos Technology / San Diego, CA	C / FFP	NAWCTSD	Aug 2016	Mar 2020	3	10,933K	Y		Oct 2015
1.26) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) ^{(16)(t)}		2018	Kratos Technology / San Diego, CA	C / FFP	NAWCTSD	Mar 2018	Oct 2021	2	9,450K	Y		Oct 2015
1.30) USMC Fed Sim - CH-53E CFTD Modernization		2017	Aero Simulation, Inc. / Tampa, FL	C / FFP	NAWCTSD	Sep 2017	Jul 2019	1	6,631K	Y		Nov 2016
1.32) USMC Fed Sim - CH-53E OCONUS Aircrew Procedures Trainer (APT)		2017	TBD / TBD	C / FFP	NAWCTSD	Sep 2017	Jan 2019	1	11,063K	Y		Nov 2016
1.34) USMC Fed Sim - KC-130J Weapons System Trainer (WST) Modernization ⁽¹⁷⁾		2019	Lockheed Martin / Orlando, FL	MIPR	USAF MATL CMD	Mar 2019	Mar 2021	2	8,007K	Y		Sep 2018
1.36) USMC Fed Sim - AH-1Z Flight Training Device (FTD) Modernization ⁽¹⁸⁾		2018	TBD / TBD	C / FFP	NAWCTSD	Mar 2018	Mar 2020	1	3,250K	Y		Jun 2017

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
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]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.37) USMC Fed Sim - AH-1Z Full Flight Simulator (FFS) Modernization		2018	TBD / TBD	C / FFP	NAWCTSD	Mar 2018	Mar 2020	2	1,625K	Y		Jun 2017
1.38) USMC Fed Sim - UH-1Y Flight Training Device (FTD) Modernization ⁽¹⁹⁾		2018	TBD / TBD	C / FFP	NAWCTSD	Mar 2018	Mar 2020	2	3,125K	Y		Jun 2017
1.39) USMC Fed Sim - UH-1Y Full Flight Simulator (FFS) Modernization ⁽²⁰⁾		2017	TBD / TBD	C / FFP	NAWCTSD	Mar 2018	Mar 2020	1	3,250K	Y		Jun 2017
1.40) USMC Fed Sim - MV-22 CFTD Modernization		2017	Bell Boeing / Amarillo, TX	C / FFP	NAWCTSD	Jan 2018	Jan 2020	4	4,050K	Y		Jul 2017
1.40) USMC Fed Sim - MV-22 CFTD Modernization		2019	Bell Boeing / Amarillo, TX	C / FFP	NAWTSD	Oct 2018	Oct 2020	4	4,048K	Y		Jul 2018
1.41) USMC Fed Sim - FA-18 C/D Tact Operational Flt Trnr (TOFT) Modernization		2016	L-3 Communications / Arlington, VA	SS / FFP	NAWCTSD	Mar 2017	Mar 2019	2	3,115K	Y		Nov 2016
1.41) USMC Fed Sim - FA-18 C/D Tact Operational Flt Trnr (TOFT) Modernization		2017	L-3 Communications / Arlington, VA	SS / FFP	NAWCTSD	Mar 2017	Mar 2019	6	1,130K	Y		Nov 2016
1.43) USMC Fed Sim - AV-8B Weapons Systems Trainer (WST) Modernization ⁽²¹⁾		2018	TBD / TBD	C / FFP	NAWCTSD	May 2018	Sep 2020	5	7,925K	Y		Jun 2017
1.45) USMC Fed Sim - AV-8B Deployable Mission Rehearsal Trainer (DMRT)		2014	Logistics Services International / Jacksonville, FL	C / FFP	NAWCTSD	Aug 2016	Mar 2018	2	2,110K	Y		Oct 2014
1.45) USMC Fed Sim - AV-8B Deployable Mission Rehearsal Trainer (DMRT)		2015	Logistics Services International / Jacksonville, FL	C / FFP	NAWCTSD	Aug 2016	Mar 2018	6	655,166.67	Y		Oct 2014
1.46) USMC Fed Sim - AV-8B DMRT Modernization		2016	Logistics Services International / Jacksonville, FL	C / FFP	NAWCAD TSD	Jan 2018	Jul 2018	8	13,125.00	Y		Dec 2017
1.53) USMC Fed Sim - AV-8B - Scan Converter Upgrade		2017	RGB Systems, Inc. / Anaheim, CA	C / FFP	NAWCTSD	Aug 2017	Aug 2017	5	1,200.00	Y		Jun 2017
1.54) E-2/C-2 - C2 Operational Flight Trainer (OFT) Tech Upgrades		2016	ASI / Tampa, FL	C / FFP	NAWCTSD	Apr 2016	Jun 2018	1	7,611K	Y		Nov 2015
1.55) E-2/C-2 - C2 OFT ASTi Digital Aural Comms Sys Upgrades		2017	Aero Simulation, Inc. / Tampa, FL	C / FFP	NAWCTSD	Nov 2016	Jul 2018	1	161,000.00	Y		Nov 2016
1.58) E-2/C-2 - E-2 Cooperative Engagement Capability (CEC) Upgrades		2017	John Hopkins University / Laurel, MD	SS / FFP	NAVSEA	Mar 2017	Mar 2018	1	320,000.00	Y		Oct 2016

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
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]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.59) E-2/C-2 - E-2 Win 10 Upgrade ⁽²²⁾		2017	NAWCTSD / Orlando, FL	PO	NAWCTSD	Mar 2017	Dec 2017	1	744,000.00	Y		
1.60) MH-53 - AMCM Stream & Recovery Mod (ASRM) Upgrades		2017	NAWCAD / Patuxent River, MD	PO	NAWCAD PAX	Aug 2017	Aug 2018	1	229,000.00	Y		
1.61) MH-53 - 2H165 Config and Cargo Load Procedures Trainer (CCLPT) Upgrades		2018	NAWCAD / Patuxent River, MD	PO	NAWCAD PAX	Mar 2018	Mar 2019	1	375,000.00	Y		
1.62) MH-53 - CCLPT/Operational Flight Trainer (OFT)/ASRM Upgrades		2017	NAWCAD / Patuxent River, MD	PO	NAWCAD PAX	Aug 2017	Aug 2018	1	350,000.00	Y		
1.62) MH-53 - CCLPT/Operational Flight Trainer (OFT)/ASRM Upgrades		2018	NAWCAD / Patuxent River, MD	PO	NAWCAD PAX	Mar 2018	Mar 2019	1	187,000.00	Y		
1.62) MH-53 - CCLPT/Operational Flight Trainer (OFT)/ASRM Upgrades		2019	NAWCAD / Patuxent River, MD	PO	NAWCAD PAX	Mar 2019	Mar 2020	1	221,000.00	Y		
1.64) NASMP - Navy Continuous Training Environment (NCTE) Nodes Upgrades		2018	NWDC (1) / Norfolk, VA	MIPR	DTIC	Jul 2018	Jul 2019	1	450,000.00	Y		
1.65) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) ^(†)		2013	BSC Partners / Binghampton, NY	SS / FFP	NAWCTSD	Nov 2013	May 2018	1	12,524K	Y		May 2013
1.65) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) ^(†)		2014	BSC Partners / Binghampton, NY	SS / FFP	NAWCTSD	Sep 2015	Jul 2018	2	6,380K	Y		May 2013
1.65) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) ^(†)		2015	BSC Partners* / Binghampton, NY	SS / FFP	NAWCTSD	Dec 2014	Nov 2018	1	6,238K	Y		May 2013
1.66) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET) Upgrades		2019	BSC Partners / Binghampton, NY	SS / FFP	NAWCTSD	Dec 2018	Jun 2019	1	10,000.00	Y		Oct 2015
1.67) NASMP - MH-60S Technology Refresh Upgrades		2014	CAE / Tampa, FL	C / FFP	NAWCTSD	Sep 2015	Aug 2018	1	8,055K	Y		Feb 2014
1.67) NASMP - MH-60S Technology Refresh Upgrades		2015	CAE / Tampa, FL	C / FFP	NAWCTSD	Sep 2017	Sep 2019	1	3,615K	Y		Jul 2017
1.67) NASMP - MH-60S Technology Refresh Upgrades		2016	CAE / Tampa, FL	C / FFP	NAWCTSD	Nov 2015	Apr 2019	1	8,563K	Y		Feb 2014
1.67) NASMP - MH-60S Technology Refresh Upgrades		2018	CAE / Tampa, FL	C / FFP	NAWCTSD	Nov 2017	Oct 2020	1	9,120K	Y		Feb 2014

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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.68) NASMP - MH-60R Technology Refresh Upgrades		2014	CAE / Tampa, FL	C / FFP	NAWCTSD	Sep 2015	Jul 2018	1	150,000.00	Y		Feb 2014
1.68) NASMP - MH-60R Technology Refresh Upgrades		2016	CAE / Tampa, FL	C / FFP	NAWCTSD	Dec 2016	Oct 2018	1	753,000.00	Y		Feb 2014
1.68) NASMP - MH-60R Technology Refresh Upgrades		2017	CAE / Tampa, FL	C / FFP	NAWCTSD	Oct 2016	Aug 2018	1	9,817K	Y		Feb 2014
1.68) NASMP - MH-60R Technology Refresh Upgrades		2018	CAE / Tampa, FL	C / FFP	NAWCTSD	Nov 2017	Oct 2020	1	96,000.00	Y		Feb 2014
1.69) NASMP - MH-60R/S TRPS Telestra Upgrade		2017	NAWCAD / Patuxent River, MD	PO	NAWCAD PAX	Aug 2017	Nov 2017	1	65,000.00	Y		
1.70) NASMP - MH-60R Naval Aircrew Training Systems (NATS) ^(†)		2013	BSC Partners / Binghampton, NY	SS / FFP	NAWCTSD	Nov 2013	Apr 2018	2	9,696K	Y		Apr 2013
1.70) NASMP - MH-60R Naval Aircrew Training Systems (NATS) ^(†)		2015	BSC Partners / Binghampton, NY	SS / FFP	NAWCTSD	Dec 2014	Nov 2018	1	7,441K	Y		Apr 2013
1.70) NASMP - MH-60R Naval Aircrew Training Systems (NATS) ^(†)		2017	BSC Partners / Binghampton, NY	SS / FFP	NAWCTSD	May 2017	Oct 2019	1	6,272K	Y		Apr 2013
1.71) NASMP - MH-60R Naval Aircrew Training Systems (NATS) Upgrades		2019	BSC Partners / Binghampton, NY	SS / FFP	NAWCTSD	Dec 2018	Jun 2019	1	9,000.00	Y		Jul 2016
1.73) NASMP - MH-60 WIN 10 Upgrade		2017	CAE / Tampa, FL	C / FFP	NAWCTSD	Jun 2017	Dec 2020	1	396,000.00	Y		Mar 2017
1.76) NASMP - FA/EA-18 NGTS v3.2 Upgrades		2016	Boeing Co. / St. Louis, MO	SS / FFP	NAWCTSD	Sep 2017	Sep 2019	1	14,760K	Y		Jan 2016
1.79) NASMP - FA/EA-18 COMMS Upgrades		2016	L3 Link Simulation & Training / Arlington, TX	SS / FFP	NAWCTSD	Sep 2016	Sep 2018	1	5,180K	Y		Jan 2016
1.80) NASMP - FA/EA-18 Weps Fidelity Upgrades		2018	Boeing Co. / St. Louis, MO	SS / FFP	NAWCTSD	Mar 2018	Mar 2020	1	10,641K	Y		Nov 2017
1.82) NASMP - FA/EA-18 Blue Forces, Threat, Terrain VDB Upgrades		2018	Boeing Co. / St. Louis, MO	SS / FFP	NAWCTSD	Mar 2018	Sep 2019	1	12,548K	Y		Nov 2017
1.83) NASMP - FA/EA-18 Airborne Electronic Attack (AEA) Model Fidelity Upgs		2017	Boeing Co. / St. Louis, MO	SS / FFP	NAWCTSD	Jan 2018	Jan 2020	1	8,239K	Y		Mar 2016
1.84) NASMP - FA/EA-18 APG-79 AESA Fidelity Upgrades		2017	Boeing Co. / St. Louis, MO	SS / FFP	NAWCTSD	Jan 2018	Jan 2020	1	5,950K	Y		Dec 2016
1.85) NASMP - FA/EA-18 APG-73 Fidelity Upgrade		2016	Boeing Co. / St. Louis, MO	SS / FFP	NAWCTSD	Sep 2016	Sep 2018	1	3,477K	Y		Jan 2016

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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.86) NASMP - FA/EA-18 Electro-Optical/Infra-Red (EO/IR) Upgrades		2016	Boeing Co. / St. Louis, MO	SS / FFP	NAWCTSD	Sep 2016	Sep 2018	1	2,700K	Y		Jan 2016
1.88) NASMP - FA/EA-18 Cockpit HW Upgrades		2019	Boeing Co. / St. Louis, MO	SS / FFP	NAWCTSD	Mar 2019	Mar 2021	25	249,120.00	Y		Oct 2018
1.89) NASMP - FA/EA-18 NASMP 1.4 / Fleet Synthetic Training (FST) Upgrades		2016	Boeing Co. / St. Louis, MO	SS / FFP	NAWCTSD	Sep 2016	Sep 2018	1	6,806K	Y		Mar 2016
1.90) NASMP - FA/EA-18 Malfunctions Fidelity Upgrades		2018	Boeing Co. / St. Louis, MO	SS / FFP	NAWCTSD	Mar 2018	Sep 2019	1	7,885K	Y		Nov 2017
1.92) NASMP - FA/EA-18 MIDS Fidelity Upgrades		2016	Boeing Co. / St. Louis, MO	SS / FFP	NAWCTSD	Sep 2016	Mar 2018	1	5,851K	Y		Mar 2016
1.96) NASMP - FA/EA-18 - TOFT Software Gold Disk Upgrade		2017	L3 Communications / Arlington, TX	SS / FFP	NAWCTSD	Dec 2016	Dec 2017	1	1,138K	Y		Oct 2016
1.97) NASMP - Common Acoustic Simulation Environment (CASE) Upgrades		2016	AAC Inc. / Hauppauge, NY	SS / FFP	NAWCTSD	Jul 2016	Jul 2018	1	12,985K	Y		Mar 2016
1.98) NASMP - CASE MH-60R TOFT #4 Integration		2017	AAC Inc. / Hauppauge, NY	SS / FFP	NAWCTSD	Mar 2017	Mar 2019	1	886,000.00	Y		Oct 2016
1.99) NASMP - CASE FI - Integration in TOFTS 1-3, 5-7, 12-14 Phase I		2019	AAC Inc. / Hauppauge, NY	SS / FFP	NAWCTSD	Jan 2019	Mar 2019	1	247,000.00	Y		Oct 2018
1.100) NASMP - CASE FI - Integration in TOFTS 1-3, 5-7, 12-14 Phase II		2019	AAC Inc. / Hauppauge, NY	SS / FFP	NAWCTSD	Aug 2019	Nov 2019	1	196,000.00	Y		Oct 2018
1.101) NASMP - CASE MH-60R TOFT Integration Manned Flight Simulator (MFS)		2017	NAWCAD / Patuxent River, MD	PO	NAWCAD PAX	Apr 2017	Sep 2020	1	821,000.00	Y		
1.102) NASMP - CASE Data Set		2016	John Hopkins University / Laurel, MD	SS / FFP	NAVSEA	Jul 2016	Sep 2018	1	700,000.00	Y		Feb 2016
1.103) NASMP - MH-60R/S NGTS Integration		2017	NAWCAD / Patuxent River, MD	PO	NAWCAD PAX	Jul 2017	Feb 2021	1	6,200K	Y		
1.104) NASMP - Cross Domain Solution (CDS) Upgrades		2019	TBD / TBD	C / FFP	NAWCTSD	Mar 2019	Mar 2020	1	1,500K	Y		Oct 2018
1.116) NASMP - Navy Aviation Distributed Training Center (NADTC) 2.0		2017	Aero Simulation, Inc. / Tampa, FL	C / FFP	NAWCTSD	Jun 2017	Aug 2017	1	3,700K	Y		Mar 2017
1.117) NASMP - FA-18 IOS-BDS-MOC Stores Management Fidelity (23)		2018	L3 Communications / Arlington, TX	SS / FFP	NAWCTSD	Mar 2018	Mar 2020	1	5,507K	Y		Nov 2017
1.118) NASMP - FA-18 IOS-BDS-MOC Ownship		2019	L3 Communications / Arlington, TX	SS / FFP	NAWCTSD	Mar 2019	Mar 2020	1	10,218K	Y		Feb 2018

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Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.119) NASMP - FA-18 IOS-BDS-MOC Targets/Maps Fidelity		2019	L3 Communications / Arlington, TX	SS / FFP	NAWCTSD	Mar 2019	Mar 2020	1	7,833K	Y		Feb 2018
1.120) NASMP - FA-18 Common IOS-BDS-MOC Console & Displays Fidelity		2019	L3 Communications / Arlington, TX	SS / FFP	NAWCTSD	Mar 2019	Mar 2020	1	11,559K	Y		Feb 2018
1.121) NASMP - FA-18 IOS-BDS-MOC Audio Control Fidelity		2019	L3 Communications / Arlington, TX	SS / FFP	NAWCTSD	Mar 2019	Mar 2020	1	7,836K	Y		Feb 2018
1.122) NASMP - FA-18 Host Computer Tech Refresh		2019	L3 Communications / Arlington, TX	SS / FFP	NAWCTSD	Mar 2019	Mar 2020	1	6,562K	Y		Feb 2018
1.123) LVC - Next Generation Threat System Upgrades		2016	NAWCAD / Patuxent River, MD	PO	NAWCAD PAX	Mar 2016	Jun 2018	1	2,148K	Y		
1.123) LVC - Next Generation Threat System Upgrades		2018	NAWCAD / Patuxent River, MD	PO	NAWCAD PAX	Jan 2018	Apr 2020	1	200,000.00	Y		

^(†) indicates the presence of a P-21

Footnotes:

⁽²⁶⁾ MIPR to AF as the Program Manager with Army PEO STRI acting as Contracting Officer located at NAWCTSD.

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Exhibit P-21, Production Schedule: PB 2019 Navy																					Date: February 2018														
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											B A L A N C E						
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014															Calendar Year 2015													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P				
1) Hardware																																			
1.26) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) ⁽¹⁶⁾																																			
19	2014	NAVY		2	0	2																											2		
19	2015	NAVY		3	0	3																											3		
19	2018	NAVY		2	0	2																											2		
1.65) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET)																																			
20	2013	NAVY		1	0	1		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1				
20	2014	NAVY		2	0	2																											A -	2	
21	2015	NAVY		1	0	1																A -	-	-	-	-	-	-	-	-	-	-	-	-	1
1.70) NASMP - MH-60R Naval Aircrew Training Systems (NATS)																																			
22	2013	NAVY		2	0	2		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2				
22	2015	NAVY		1	0	1																A -	-	-	-	-	-	-	-	-	-	-	-	-	1
23	2017	NAVY		1	0	1																											1		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2019 Navy										Date: February 2018									
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												B A L A N C E							
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P						
1) Hardware																																					
1.26) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) ⁽¹⁶⁾																																					
	19	2014	NAVY	2	0	2													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
	19	2015	NAVY	3	0	3													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
	19	2018	NAVY	2	0	2																									2						
1.65) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET)																																					
	20	2013	NAVY	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1					
	20	2014	NAVY	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2					
	21	2015	NAVY	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1					
1.70) NASMP - MH-60R Naval Aircrew Training Systems (NATS)																																					
	22	2013	NAVY	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2					
	22	2015	NAVY	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1					
	23	2017	NAVY	1	0	1																									A -	-	-	-	-	1	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018				
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														B A L A N C E	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018														Calendar Year 2019														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
1) Hardware																																			
1.26) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) ⁽¹⁶⁾																																			
19	2014	NAVY		2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1		0				
19	2015	NAVY		3	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3				
19	2018	NAVY		2	0	2	-					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2					
1.65) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET)																																			
20	2013	NAVY		1	0	1	-	-	-	-	-	-	-	1																			0		
20	2014	NAVY		2	0	2	-	-	-	-	-	-	-	-	-	1	1															0			
21	2015	NAVY		1	0	1	-	-	-	-	-	-	-	-	-	-	-	1															0		
1.70) NASMP - MH-60R Naval Aircrew Training Systems (NATS)																																			
22	2013	NAVY		2	0	2	-	-	-	-	-	-	2																			0			
22	2015	NAVY		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	1														0		
23	2017	NAVY		1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018																
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 <i>(Units in Each)</i>							Fiscal Year 2020										Fiscal Year 2021										BALANCE									
OCO	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020										Calendar Year 2021																			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP					
1) Hardware																																				
1.26) USMC Fed Sim -Marine Common Aircrew Trainer (MCAT) ⁽¹⁶⁾																																				
	19	2014	NAVY		2	0																												0		
	19	2015	NAVY		3	0	3	-	-	-	-	-	1	-	-	1	-	-	-	1																0
	19	2018	NAVY		2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2				
1.65) NASMP - MH-60S Aircrew Virtual Environment Trainer (AVET)																																				
	20	2013	NAVY		1	1	0																												0	
	20	2014	NAVY		2	2	0																												0	
	21	2015	NAVY		1	1	0																												0	
1.70) NASMP - MH-60R Naval Aircrew Training Systems (NATS)																																				
	22	2013	NAVY		2	2	0																												0	
	22	2015	NAVY		1	1	0																												0	
	23	2017	NAVY		1	0	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					

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LI 0705 - Common Ground Equipment
Navy

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Exhibit P-21, Production Schedule: PB 2019 Navy									Date: February 2018			
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)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Kratos Technology - San Diego, CA	1	1	3	0	12	33	45	0	9	43	52
2	BSC Partners - Binghampton, NY	1	1	3	0	0	54	54	0	2	34	36
3	BSC Partners* - Binghampton, NY	1	1	3	0	0	0	0	0	2	47	49
4	BSC Partners - Binghampton, NY	1	1	3	0	0	53	53	0	2	47	49
5	BSC Partners - Binghampton, NY	1	1	3	0	0	0	0	0	2	29	31

"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 2019 Navy **Date:** February 2018

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: 0715 / Aircraft Industrial Facilities
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,076.640	23.718	25.076	24.496	0.000	24.496	25.022	25.537	26.041	26.573	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,076.640	23.718	25.076	24.496	0.000	24.496	25.022	25.537	26.041	26.573	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,076.640	23.718	25.076	24.496	0.000	24.496	25.022	25.537	26.041	26.573	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

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).

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy								Date: February 2018		
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: 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	Aircraft Industrial Facilities	P-5a			- / 1,076.640	- / 23.718	- / 25.076	- / 24.496	- / -	- / 24.496
P-40	Total Gross/Weapon System Cost				- / 1,076.640	- / 23.718	- / 25.076	- / 24.496	- / 0.000	- / 24.496
<small>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.</small>										
<small>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</small>										
<p>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.</p> <p>The FY 2019 funding request was reduced by \$0.293M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.</p>										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018				
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 (†)(†)	A		18,062.75	765	13.818	2,970.00	125	0.371	2,976.38	127	0.378	3,024.59	122	0.369	-	-	-	3,024.59	122	0.369
1.2) Low Frequency AC/DC CALSTDs (†)	A		69,468.90	1,672	116.152	10,564.90	416	4.395	10,795.87	436	4.707	10,770.49	427	4.599	-	-	-	10,770.49	427	4.599
1.3) Other CALSTDs Procurement (†)	A		21,929.67	910	19.956	6,110.00	112	0.684	6,105.26	114	0.696	6,648.15	108	0.718	-	-	-	6,648.15	108	0.718
1.4) Physical Dimen / Optical CALSTDs (†)	A		112,013.53	1,404	157.267	33,561.98	242	8.122	33,258.06	248	8.248	29,316.67	240	7.036	-	-	-	29,316.67	240	7.036
1.5) RF / Microwave CALSTDs (†)	A		66,308.46	1,809	119.952	12,543.48	460	5.770	13,702.08	480	6.577	12,971.92	463	6.006	-	-	-	12,971.92	463	6.006
1.6) Res / Impedance CALSTDs (†)	A		48,595.47	838	40.723	5,260.00	167	0.878	5,406.06	165	0.892	6,742.14	159	1.072	-	-	-	6,742.14	159	1.072
1.7) Logistics / Engineering Support	A		-	-	47.774	-	-	2.249	-	-	2.276	-	-	3.352	-	-	-	-	-	3.352
1.8) Production / Aquisition	A		-	-	77.266	-	-	1.249	-	-	1.302	-	-	1.344	-	-	-	-	-	1.344
1.9) Divestiture Support	A		-	-	483.732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Aircraft Industrial Facilities			-	-	1,076.640	-	-	23.718	-	-	25.076	-	-	24.496	-	-	-	-	-	24.496
Total			-	-	1,076.640	-	-	23.718	-	-	25.076	-	-	24.496	-	-	-	-	-	24.496

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.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
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]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Aircraft Industrial Facilities												
1.1) Automated / Interface CALSTDs ⁽¹⁾		2016 ⁽²⁾	Various / Various	C / FP	Multiple	Oct 2015	Oct 2015	118	2,750.00	Y		
1.1) Automated / Interface CALSTDs ⁽¹⁾		2017	Various / Various	C / FP	Multiple	Oct 2016	Oct 2016	125	2,970.00	Y		
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		
1.2) Low Frequency AC/DC CALSTDs		2016	Various / Various	C / FP	Multiple	Oct 2015	Oct 2015	449	10,525.61	Y		
1.2) Low Frequency AC/DC CALSTDs	✓	2016	Various / Various	C / FP	Multiple	Oct 2015	Oct 2015	6	22,433.00	Y		
1.2) Low Frequency AC/DC CALSTDs		2017	Various / Various	C / FP	Multiple	Oct 2016	Oct 2016	416	10,564.90	Y		
1.2) Low Frequency AC/DC CALSTDs		2018	Various / Various	C / FP	Multiple	Oct 2017	Oct 2017	436	10,795.87	Y		
1.2) Low Frequency AC/DC CALSTDs		2019	Various / Various	C / FP	Multiple	Oct 2018	Oct 2018	427	10,770.49	Y		
1.3) Other CALSTDs Procurement		2017	Various / Various	C / FP	Multiple	Oct 2016	Oct 2016	112	6,110.00	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		
1.4) Physical Dimen / Optical CALSTDs		2014	Various / Various	C / FP	Multiple	Oct 2013	Oct 2013	325	30,366.15	Y		
1.4) Physical Dimen / Optical CALSTDs		2015	Various / Various	C / FP	Multiple	Oct 2014	Oct 2014	258	32,341.09	Y		
1.4) Physical Dimen / Optical CALSTDs		2016	Various / Various	C / FP	Multiple	Oct 2015	Oct 2015	247	33,275.30	Y		
1.4) Physical Dimen / Optical CALSTDs		2017	Various / Various	C / FP	Multiple	Oct 2016	Oct 2016	235	32,331.91	Y		
1.4) Physical Dimen / Optical CALSTDs	✓	2017	Various / Various	C / FP	Multiple	Oct 2016	Oct 2016	7	74,857.14	Y		
1.4) Physical Dimen / Optical CALSTDs		2018	Various / Various	C / FP	Multiple	Oct 2017	Oct 2017	248	33,258.06	Y		
1.4) Physical Dimen / Optical CALSTDs		2019	Various / Various	C / FP	Multiple	Oct 2018	Oct 2018	240	29,316.67	Y		
1.5) RF / Microwave CALSTDs		2016	Various / Various	C / FP	Multiple	Oct 2015	Oct 2015	470	12,460.00	Y		
1.5) RF / Microwave CALSTDs	✓	2016	Various / Various	C / FP	Multiple	Oct 2015	Oct 2015	5	21,800.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy							Date: February 2018				
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]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.5) RF / Microwave CALSTDs		2017	Various / Various	C / FP	Multiple	Oct 2016	Oct 2016	460	12,543.48	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		
1.6) Res / Impedance CALSTDs		2016	Various / Various	C / FP	Multiple	Oct 2015	Oct 2015	177	4,950.00	Y		
1.6) Res / Impedance CALSTDs		2017	Various / Various	C / FP	Multiple	Oct 2016	Oct 2016	167	5,260.00	Y		
1.6) Res / Impedance CALSTDs		2018	Various / Various	C / FP	Multiple	Oct 2017	Oct 2017	165	5,406.06	Y		
1.6) Res / Impedance CALSTDs		2019	Various / Various	C / FP	Multiple	Oct 2018	Oct 2018	159	6,742.14	Y		

Footnotes:

⁽²⁾ For Cost Elements 1.1 through 1.6: RFP Issue Date: Multiple; Award Date: Multiple; Contractor & Location: Various; Date of First Delivery: Multiple; Revisions Available: N/A

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

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
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0204164N, 0204161N, 0604329N	Other Related Program Elements: 0205633N
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	879.435	36.740	39.614	42.108	0.000	42.108	41.696	42.582	43.417	44.346	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	879.435	36.740	39.614	42.108	0.000	42.108	41.696	42.582	43.417	44.346	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	879.435	36.740	39.614	42.108	0.000	42.108	41.696	42.582	43.417	44.346	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

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, EA-6B, 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 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.
- Digital Improved Triple Ejector Rack (DITER) increases the capability of the existing BRU-42 for the AV-8B by adding a smart carriage capability for weapons such as the Joint Direct Attack Munition (JDAM).
- A Type 2 carriage 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-61 to support the SDB II warfighter requirements, Initial Operating Capability (IOC), and schoolhouse requirements. FY 2019 is the first year of DoN production.
- The LAU-127 is to replace launchers that are beyond capable maintenance (BCM) and are removed from the fleet. This is a new procurement in FY 2019.

AERIAL REFUELING STORES (ARS)

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
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
Line Item MDAP/MAIS Code: N/A		
<p>The ARS program finances Aerial Refueling Systems, EFT and related support. 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 overhead 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 in pursuit of life cycle cost savings, mitigation of flight safety risk and reliability enhancements have identified a large dollar value return on investment for service life extension, reduction in flight safety risk and areas where reliability improvements can be realized.</p> <ul style="list-style-type: none"> - 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. 		

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
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				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	War Consumables	P-5a, P-21			- / 879.435	- / 36.740	- / 39.614	- / 42.108	- / -	- / 42.108
P-40	Total Gross/Weapon System Cost				- / 879.435	- / 36.740	- / 39.614	- / 42.108	- / 0.000	- / 42.108
<p>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>										
<p>Justification: FY 2019 Provides funding to procure, modify and/or upgrade bomb racks and missile launchers, BRU-55, BRU-61, and ARS and associated support. FY 2019 procurements support the following platforms: F/ A-18 A-F, EA-18G, AV-8B, P-3C, EA-6B, AH-1W/Z, UH-1N/Y, MH-60R/S, F-35B, and F-35C.</p> <p>The FY 2019 funding request was reduced by \$0.228M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.</p>										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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) Bomb Rack Mod Kits & Install ⁽¹⁾	A		-	-	32.678	-	-	1.710	-	-	3.915	-	-	4.010	-	-	-	-	-	4.010
1.2) Launcher Upgrade & Installation ⁽²⁾	A		-	-	49.954	-	-	1.825	-	-	2.912	-	-	3.030	-	-	-	-	-	3.030
1.3) LAU-127 ^{(3)(t)}	A		-	-	-	-	-	-	-	-	-	40,000.00	217	8.680	-	-	-	40,000.00	217	8.680
1.4) LAU-7	A		37,398.00	2,000	74.796	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) Pure Air Generating System MPACT	A		18,395.53	1,163	21.394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) High Pressure Pure Air Generator HiPPAG	A		43,672.89	1,608	70.226	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7) Common Interface Assembly	A		494.29	2,013	0.995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.8) Rack and Launcher Test Set	A		-	-	2.725	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.9) External Fuel Tanks	A		52,337.50	1,200	62.805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.10) External Fuel Tanks*	A		41,083.33	24	0.986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.11) External Fuel Tank Support Equipment	A		-	-	3.344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.12) BRU-55 ^(t)	A		107,858.74	538	58.028	106,123.29	219	23.241	105,750.00	207	21.890	107,741.38	58	6.249	-	-	-	107,741.38	58	6.249
1.13) Digital ITER	B		73,264.15	159	11.649	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.14) BRU-61 ^{(4)(t)}	B		-	-	-	-	-	-	-	-	-	225,000.00	40	9.000	-	-	-	225,000.00	40	9.000
1.15) ILS	A		-	-	12.970	-	-	1.115	-	-	1.158	-	-	1.184	-	-	-	-	-	1.184
1.16) Product Improvement	A		-	-	39.180	-	-	0.947	-	-	0.981	-	-	1.000	-	-	-	-	-	1.000
1.17) Product Engineering	A		-	-	45.832	-	-	1.431	-	-	1.480	-	-	1.176	-	-	-	-	-	1.176
1.18) Various ⁽⁵⁾	A		-	-	131.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Common AAE			-	-	618.686	-	-	30.269	-	-	32.336	-	-	34.329	-	-	-	-	-	34.329
2) Aerial Refueling Stores																				
2.1) External Fuel Tanks	A		41,084.21	190	7.806	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) Aerial Refueling Stores ⁽⁶⁾	A		-	-	70.643	-	-	4.187	-	-	5.012	-	-	5.268	-	-	-	-	-	5.268

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018				
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
2.3) Product Support (7)	A		-	-	20.340	-	-	2.284	-	-	2.266	-	-	2.511	-	-	-	-	-	2.511
2.4) Various	A		-	-	161.960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) Aerial Refueling Stores			-	-	260.749	-	-	6.471	-	-	7.278	-	-	7.779	-	-	-	-	-	7.779
Total			-	-	879.435	-	-	36.740	-	-	39.614	-	-	42.108	-	-	-	-	-	42.108

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. Additionally, any decrease in funding causes increased requirements in the out years to maintain fleet readiness. The fluctuations in requirements and funding forces the budget line to exceed the OSD standard inflation rate. FY 2018 and FY 2019 funding will be used to implement engineering change proposal to allow SDB II carriage on BRU-55 on F/A-18 E/F to meet the DoN IOC of FY 2020.
- (2) Fluctuations in funding from year to year are based on the required modifications and upgrades to support multiple aircraft T/M/S. Additionally, any decrease in funding causes increased requirements in the out years to maintain fleet readiness. The fluctuations in requirements and funding forces the budget line to exceed the OSD standard inflation rate.
- (3) The LAU-127 is to replace launchers that are beyond capable maintenance (BCM) and are removed from the fleet. This is a new procurement in FY 2019.
- (4) FY 2019 unit costs are significantly higher due to the first year of DoN procurement of BRU-61.
- (5) The amount identified against this cost element reflects total prior year funding associated with equipment no longer procured.
- (6) Fluctuations in funding from year to year are based on the required modifications and upgrades to support multiple aircraft T/M/S. Additionally, any decrease in funding causes increased requirements in the out years to maintain fleet readiness. The fluctuations in requirements and funding forces the budget line to exceed the OSD standard inflation rate.
- (7) FY 2019 Product Support funding is provided for production engineering support and integrated logistics support for the Aerial Refueling Stores program.

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Exhibit P-5a, Procurement History and Planning: PB 2019 Navy									Date: February 2018			
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]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Common AAE												
1.3) LAU-127 ^{(3)(†)}		2019 ⁽⁸⁾	Marvin Eng. / Inglewood, CA	SS / FFP	NAVAIR	Jun 2019	Dec 2020	217	40,000.00	Y		Jun 2019
1.12) BRU-55 ^(†)		2015	ITT ⁽⁹⁾ / Amityville, NY	SS / FFP	NAVAIR	Apr 2017	Apr 2019	34	106,123.29	Y		Apr 2016
1.12) BRU-55 ^(†)		2016	ITT ⁽⁹⁾ / Amityville, NY	SS / FFP	NAVAIR	Apr 2017	Apr 2019	54	106,123.29	Y		Apr 2016
1.12) BRU-55 ^(†)		2017	ITT ⁽⁹⁾ / Amityville, NY	SS / FFP	NAVAIR	Apr 2017	Apr 2019	219	106,123.29	Y		Apr 2016
1.12) BRU-55 ^(†)		2018	ITT ⁽⁹⁾ / Amityville, NY	SS / FFP	NAVAIR	Nov 2017	Apr 2019	207	105,750.00	Y		Apr 2016
1.12) BRU-55 ^(†)		2019	ITT ⁽⁹⁾ / Amityville, NY	SS / FFP	NAVAIR	Nov 2018	Apr 2020	58	107,741.38	Y		Apr 2016
1.14) BRU-61 ^{(4)(†)}		2019	Boeing Co. / St. Louis, MO	C / TBD	Eglin AFB	Feb 2019	Jun 2020	40	225,000.00	Y		Oct 2010

^(†) indicates the presence of a P-21

Footnotes:

⁽⁸⁾ The LAU-127 is to replace launchers that are beyond capable maintenance (BCM) and are removed from the fleet.

⁽⁹⁾ Annual Production Rates were updated to reflect more accurate information and delivery schedule was updated accordingly.

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1										P-1 Line Item Number / Title: 0720 / War Consumables										Aggregated Items: War Consumables														
Items <i>(Units in Each)</i>							Fiscal Year 2017										Fiscal Year 2018										BALANCE							
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017										Calendar Year 2018																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP			
1) Common AAE																																		
1.3) LAU-127 ⁽³⁾																																		
	24	2019	NAVY		217	0	217																										217	
1.12) BRU-55																																		
Prior Years Deliveries: 450																																		
	25	2015	NAVY		34	0	34							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34			
	25	2016	NAVY		54	0	54							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54			
	25	2017	NAVY		219	0	219							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	219			
	25	2018	NAVY		207	0	207														A -	-	-	-	-	-	-	-	-	-	-	-	-	207
	25	2019	NAVY		58	0	58																										58	
1.14) BRU-61 ⁽⁴⁾																																		
	26	2019	NAVY		40	0	40	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	40		

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Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1										P-1 Line Item Number / Title: 0720 / War Consumables													Aggregated Items: War Consumables											
Items <i>(Units in Each)</i>							Fiscal Year 2019												Fiscal Year 2020													BALANCE		
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019												Calendar Year 2020															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1) Common AAE																																		
1.3) LAU-127 ⁽³⁾																																		
	24	2019	NAVY		217	0	217							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	217		
1.12) BRU-55																																		
Prior Years Deliveries: 450																																		
	25	2015	NAVY		34	0	34	-	-	-	-	-	-	20	14																			0
	25	2016	NAVY		54	0	54	-	-	-	-	-	-	1	-	22	25	6																0
	25	2017	NAVY		219	0	219	-	-	-	-	-	-	3	8	5	7	21	20	20	20	20	20	20	20	20	20	15						0
	25	2018	NAVY		207	0	207	-	-	-	-	-	-	9	12	15	15	18	18	20	20	20	20	20	20	20					0			
	25	2019	NAVY		58	0	58		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	22			
1.14) BRU-61 ⁽⁴⁾																																		
	26	2019	NAVY		40	0	40					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	34		
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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Exhibit P-21, Production Schedule: PB 2019 Navy																				Date: February 2018													
Appropriation / Budget Activity / Budget Sub Activity: 1506N / 07 / 1										P-1 Line Item Number / Title: 0720 / War Consumables										Aggregated Items: War Consumables													
Items <i>(Units in Each)</i>							Fiscal Year 2021										Fiscal Year 2022										BALANCE						
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021										Calendar Year 2022																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P		
1) Common AAE																																	
1.3) LAU-127 ⁽³⁾																																	
	24	2019	NAVY		217	0	217	-	-	25	25	25	25	25	25	25	17																0
1.12) BRU-55																																	
Prior Years Deliveries: 450																																	
	25	2015	NAVY		34	34	0																										0
	25	2016	NAVY		54	54	0																										0
	25	2017	NAVY		219	219	0																										0
	25	2018	NAVY		207	207	0																										0
	25	2019	NAVY		58	36	22	4	4	4	4	4	2																0				
1.14) BRU-61 ⁽⁴⁾																																	
	26	2019	NAVY		40	6	34	-	-	-	-	-	-	14	20																		0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N																		J U L

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Exhibit P-21, Production Schedule: PB 2019 Navy								Date: February 2018			
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)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Marvin Eng. - Inglewood, CA	120	180	300	18	0	18	18	0	0	0	0
2	ITT ⁽⁹⁾ - Amityville, NY	60	180	300	0	2	24	26	0	1	17	18
3	Boeing Co. - St. Louis, MO	20	130	240	18	0	16	16	0	0	0	0

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

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

Footnotes:

⁽⁹⁾ Annual Production Rates were updated to reflect more accurate information and delivery schedule was updated accordingly.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

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: 0725 / Other Production Charges
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
--	---	--

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	204.221	0.860	1.463	1.444	0.000	1.444	13.891	21.189	21.611	22.066	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	204.221	0.860	1.463	1.444	0.000	1.444	13.891	21.189	21.611	22.066	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	204.221	0.860	1.463	1.444	0.000	1.444	13.891	21.189	21.611	22.066	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

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 2020, Increment II will procure new PS to provide encryption capability for Fleet training exercises. Increment II will also deliver encrypted Rack-mounted Subsystem (RS) for Rotary and Transport Aircraft.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy							Date: February 2018			
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: 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	Other Production Charges				- / 204.221	- / 0.860	- / 1.463	- / 1.444	- / -	- / 1.444
P-40	Total Gross/Weapon System Cost				- / 204.221	- / 0.860	- / 1.463	- / 1.444	- / 0.000	- / 1.444
*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:

Basis for FY 2019 Budget Request: Funds are requested in FY 2019 to procure TCTS Increment I Block Upgrades to support improved TCTS Increment I Pod performance for the Fleet.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2019 Navy															Date: February 2018					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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) Participant Subsystem ⁽¹⁾	A		-	-	96.267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) TCTS Increment I Block Upgrade	A		-	-	8.683	-	-	0.766	-	-	0.770	-	-	1.088	-	-	-	-	-	1.088
1.3) Integrated Logistics Support	A		-	-	11.515	-	-	0.094	-	-	0.288	-	-	0.200	-	-	-	-	-	0.200
1.4) Acceptance Test	A		-	-	6.857	-	-	-	-	-	0.050	-	-	0.050	-	-	-	-	-	0.050
1.5) Production Engineering	A		-	-	4.707	-	-	-	-	-	0.355	-	-	0.106	-	-	-	-	-	0.106
1.6) Production Support	A		-	-	0.345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7) Non Recurring	A		-	-	75.847	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Tactical Combat Training System			-	-	204.221	-	-	0.860	-	-	1.463	-	-	1.444	-	-	-	-	-	1.444
Total			-	-	204.221	-	-	0.860	-	-	1.463	-	-	1.444	-	-	-	-	-	1.444

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

Footnotes:

⁽¹⁾ FY21 procurement includes the technical data package.

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Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

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:
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ <i>in Millions</i>)	1,449.328	36.282	48.500	49.489	0.000	49.489	45.390	55.082	32.098	59.949	Continuing	Continuing
Less PY Advance Procurement (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ <i>in Millions</i>)	1,449.328	36.282	48.500	49.489	0.000	49.489	45.390	55.082	32.098	59.949	Continuing	Continuing
Plus CY Advance Procurement (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ <i>in Millions</i>)	1,449.328	36.282	48.500	49.489	0.000	49.489	45.390	55.082	32.098	59.949	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ <i>in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ <i>in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

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 2019 Navy										Date: February 2018		
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: 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	84.772	1.523	1.976	1.951	0.000	1.951	1.901	1.941	1.979	2.019	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	84.772	1.523	1.976	1.951	0.000	1.951	1.901	1.941	1.979	2.019	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	84.772	1.523	1.976	1.951	0.000	1.951	1.901	1.941	1.979	2.019	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
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: Funds are requested for FY 2019 First Destination Transportation requirements. The FY 2019 funding request was reduced by \$0.002M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.												

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