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**Department of Defense
Fiscal Year (FY) 2020 Budget Estimates**

March 2019



Navy

Justification Book Volume 5 of 5

Other Procurement, Navy

BA 05 – 08

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The estimated cost of this report for the Department of the Navy (DON) is \$22,004.

The estimated total cost for supporting the DON budget justification material is approximately \$1,803,116 for the 2019 fiscal year. This includes \$81,351 in supplies and \$1,721,765 in labor.

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Department of Defense Appropriations Act, 2020

Other Procurement, Navy

For procurement, production, and modernization of support equipment and materials not otherwise provided for, Navy ordnance (except ordnance for new aircraft, new ships, and ships authorized for conversion); the purchase of passenger motor vehicles for replacement only; 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, \$10,010,556,000, to remain available for obligation until September 30, 2022.

FY 2020 Overseas Contingency Operations funding can be separated into the following categories:

- OCO for Direct War Costs (\$38,091,000): Direct War costs are those combat or direct combat support costs that will not continue to be expended once combat operations end at major contingency locations.
- OCO for Enduring Requirements (\$319,509,000): OCO for Enduring Requirements are enduring in-theater and in-CONUS costs that will likely remain after combat operations cease, and have previously been funded in OCO.
- OCO for Base Requirements (\$0): OCO for Base Requirements is OCO funding for base budget requirements in support of the National Defense Strategy. The Budget requests these funds in OCO to comply with the base budget defense caps included in the Budget Control Act of 2011.

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

Appropriation -----	FY 2018 (Base + OCO) -----	FY 2019 Base Enacted -----	FY 2019 OCO Enacted -----	FY 2019 Total Enacted -----
Other Procurement, Navy	8,258,598	9,097,138	181,173	9,278,311
Total Department of the Navy	8,258,598	9,097,138	181,173	9,278,311

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

Appropriation -----	FY 2020 Base -----	FY 2020 OCO for Base Requirements -----	FY 2020 OCO for Direct War and Enduring Costs -----	FY 2020 Total OCO -----
Other Procurement, Navy	9,652,956		357,600	357,600
Total Department of the Navy	9,652,956		357,600	357,600

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

Appropriation -----	FY 2020 Total (Base + OCO) -----
Other Procurement, Navy	10,010,556
Total Department of the Navy	10,010,556

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

Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2018 (Base + OCO) -----	FY 2019 Base Enacted -----	FY 2019 OCO Enacted -----	FY 2019 Total Enacted -----
01. Ships Support Equipment	2,711,934	3,039,782	28,260	3,068,042
02. Communications & Electronics Equip	2,740,513	3,059,558	62,150	3,121,708
03. Aviation Support Equipment	459,749	516,566	21,156	537,722
04. Ordnance Support Equipment	978,185	997,917	27,580	1,025,497
05. Civil Engineering Support Equip	107,860	111,224	8,638	119,862
06. Supply Support Equipment	511,217	603,132	500	603,632
07. Personnel & Command Support Equip	461,687	461,384	32,889	494,273
08. Spares and Repair Parts	287,453	307,575		307,575
Total Other Procurement, Navy	8,258,598	9,097,138	181,173	9,278,311

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

Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2020 Base -----	FY 2020 OCO for Base Requirements -----	FY 2020 OCO for Direct War and Enduring Costs -----	FY 2020 Total OCO -----
01. Ships Support Equipment	2,797,292		5,800	5,800
02. Communications & Electronics Equip	3,255,859		310,503	310,503
03. Aviation Support Equipment	640,625		16,830	16,830
04. Ordnance Support Equipment	1,133,944		15,307	15,307
05. Civil Engineering Support Equip	170,574		1,366	1,366
06. Supply Support Equipment	676,793		610	610
07. Personnel & Command Support Equip	602,261		7,184	7,184
08. Spares and Repair Parts	375,608			
Total Other Procurement, Navy	9,652,956		357,600	357,600

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

Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2020 Total (Base + OCO) -----
01. Ships Support Equipment	2,803,092
02. Communications & Electronics Equip	3,566,362
03. Aviation Support Equipment	657,455
04. Ordnance Support Equipment	1,149,251
05. Civil Engineering Support Equip	171,940
06. Supply Support Equipment	677,403
07. Personnel & Command Support Equip	609,445
08. Spares and Repair Parts	375,608
Total Other Procurement, Navy	10,010,556

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

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO) Quantity Cost	FY 2019 Base Enacted Quantity Cost	FY 2019 OCO Enacted Quantity Cost	FY 2019 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
Budget Activity 01: Ships Support Equipment							

Ship Propulsion Equipment							
1	Surface Power Equipment	A	41,910	19,196		19,196	U
Generators							
2	Surface Combatant HM&E	A	26,651	23,495		23,495	U
Navigation Equipment							
3	Other Navigation Equipment	A	62,427	60,830		60,830	U
Other Shipboard Equipment							
4	Sub Periscope, Imaging and Supt Equip Prog	A	172,740	176,621		176,621	U
5	DDG Mod	A	592,644	462,908		462,908	U
6	Firefighting Equipment	A	15,887	28,143		28,143	U
7	Command and Control Switchboard	A	2,240	2,248		2,248	U
8	LHA/LHD Midlife	A	4,767	32,353		32,353	U
9	Pollution Control Equipment	B	15,564	20,883		20,883	U
10	Submarine Support Equipment	A	27,190	37,155		37,155	U
11	Virginia Class Support Equipment	A	46,610	66,328		66,328	U
12	LCS Class Support Equipment		43,407	47,241		47,241	U
13	Submarine Batteries		24,394	24,460		24,460	U
14	LPD Class Support Equipment		52,114	62,026		62,026	U

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Department of the Navy
FY 2020 President's Budget
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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Base Quantity	Cost	FY 2020 OCO for Base Requirements Quantity	Cost	FY 2020 OCO for Direct War and Enduring Costs Quantity	Cost	FY 2020 Total OCO Quantity	Cost	S e c
Budget Activity 01: Ships Support Equipment											
Ship Propulsion Equipment											
1	Surface Power Equipment	A		14,490							U
Generators											
2	Surface Combatant HM&E	A		31,583							U
Navigation Equipment											
3	Other Navigation Equipment	A		77,404							U
Other Shipboard Equipment											
4	Sub Periscope, Imaging and Supt Equip Prog	A		160,803							U
5	DDG Mod	A		566,140							U
6	Firefighting Equipment	A		18,223							U
7	Command and Control Switchboard	A		2,086							U
8	LHA/LHD Midlife	A		95,651							U
9	Pollution Control Equipment	B		23,910							U
10	Submarine Support Equipment	A		44,895							U
11	Virginia Class Support Equipment	A		28,465							U
12	LCS Class Support Equipment			19,426							U
13	Submarine Batteries			26,290							U
14	LPD Class Support Equipment			46,945							U

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO) Quantity Cost	S e c
----	-----	-----	-----	-----
Budget Activity 01: Ships Support Equipment -----				
Ship Propulsion Equipment				
1	Surface Power Equipment	A	14,490	U
Generators				
2	Surface Combatant HM&E	A	31,583	U
Navigation Equipment				
3	Other Navigation Equipment	A	77,404	U
Other Shipboard Equipment				
4	Sub Periscope, Imaging and Supt Equip Prog	A	160,803	U
5	DDG Mod	A	566,140	U
6	Firefighting Equipment	A	18,223	U
7	Command and Control Switchboard	A	2,086	U
8	LHA/LHD Midlife	A	95,651	U
9	Pollution Control Equipment	B	23,910	U
10	Submarine Support Equipment	A	44,895	U
11	Virginia Class Support Equipment	A	28,465	U
12	LCS Class Support Equipment		19,426	U
13	Submarine Batteries		26,290	U
14	LPD Class Support Equipment		46,945	U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO) Quantity Cost	FY 2019 Base Enacted Quantity Cost	FY 2019 OCO Enacted Quantity Cost	FY 2019 Total Enacted Quantity Cost	S e c
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15	DDG 1000 Class Support Equipment	A		57,700		57,700	U
16	Strategic Platform Support Equip	A	14,726	22,254		22,254	U
17	DSSP Equipment	A	4,178	3,629		3,629	U
18	CG Modernization	A	299,088	268,509		268,509	U
19	LCAC	A	5,507	3,709		3,709	U
20	Underwater EOD Programs		68,270	73,000	9,200	82,200	U
21	Items Less Than \$5 Million	A	92,451	123,685		123,685	U
22	Chemical Warfare Detectors	A	2,656	2,966		2,966	U
23	Submarine Life Support System	A	4,882	6,924		6,924	U
	Reactor Plant Equipment						
24	Reactor Power Units	A		346,325		346,325	U
25	Reactor Components	A	534,468	497,063		497,063	U
	Ocean Engineering						
26	Diving and Salvage Equipment	A	10,619	10,706		10,706	U
	Small Boats						
27	Standard Boats	A	61,789	49,771	19,060	68,831	U
	Production Facilities Equipment						
28	Operating Forces Ipe	A	179,662	297,181		297,181	U
	Other Ship Support						
29	LCS Common Mission Modules Equipment		18,760	33,237		33,237	U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Base Quantity	Cost	FY 2020 OCO for Base Requirements Quantity	Cost	FY 2020 OCO for Direct War and Enduring Costs Quantity	Cost	FY 2020 Total OCO Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
15	DDG 1000 Class Support Equipment	A		9,930							U
16	Strategic Platform Support Equip	A		14,331							U
17	DSSP Equipment	A		2,909							U
18	CG Modernization	A		193,990							U
19	LCAC	A		3,392							U
20	Underwater EOD Programs			71,240			5,800		5,800		U
21	Items Less Than \$5 Million	A		102,543							U
22	Chemical Warfare Detectors	A		2,961							U
23	Submarine Life Support System	A		6,635							U
	Reactor Plant Equipment										
24	Reactor Power Units	A		5,340							U
25	Reactor Components	A		465,726							U
	Ocean Engineering										
26	Diving and Salvage Equipment	A		11,854							U
	Small Boats										
27	Standard Boats	A		79,102							U
	Production Facilities Equipment										
28	Operating Forces Ipe	A		202,238							U
	Other Ship Support										
29	LCS Common Mission Modules Equipment			51,553							U

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Department of the Navy
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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO) Quantity	Cost	S e c
----	-----	-----	-----	-----	-----
15	DDG 1000 Class Support Equipment	A		9,930	U
16	Strategic Platform Support Equip	A		14,331	U
17	DSSP Equipment	A		2,909	U
18	CG Modernization	A		193,990	U
19	LCAC	A		3,392	U
20	Underwater EOD Programs			77,040	U
21	Items Less Than \$5 Million	A		102,543	U
22	Chemical Warfare Detectors	A		2,961	U
23	Submarine Life Support System	A		6,635	U
	Reactor Plant Equipment				
24	Reactor Power Units	A		5,340	U
25	Reactor Components	A		465,726	U
	Ocean Engineering				
26	Diving and Salvage Equipment	A		11,854	U
	Small Boats				
27	Standard Boats	A		79,102	U
	Production Facilities Equipment				
28	Operating Forces Ipe	A		202,238	U
	Other Ship Support				
29	LCS Common Mission Modules Equipment			51,553	U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO) Quantity Cost	FY 2019 Base Enacted Quantity Cost	FY 2019 OCO Enacted Quantity Cost	FY 2019 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
30	LCS MCM Mission Modules		45,146	98,901		98,901	U
31	LCS ASW Mission Modules						U
32	LCS SUW Mission Modules		20,925	13,025		13,025	U
33	LCS In-Service Modernization	A	139,726	62,526		62,526	U
34	Small & Medium UUV	A					U
	Logistic Support						
35	LSD Midlife & Modernization		80,536	4,784		4,784	U
	Total Ships Support Equipment		2,711,934	3,039,782	28,260	3,068,042	
	Budget Activity 02: Communications & Electronics Equip						
	Ship Sonars						
36	SPQ-9B Radar	A	18,993	19,179		19,179	U
37	AN/SQQ-89 Surf ASW Combat System	A	100,222	114,344		114,344	U
38	SSN Acoustic Equipment	A	354,253	328,658		328,658	U
39	Undersea Warfare Support Equipment	A	13,653	10,134		10,134	U
	ASW Electronic Equipment						
40	Submarine Acoustic Warfare System	A	21,449	21,615		21,615	U
41	SSTD	A	12,867	4,777		4,777	U
42	Fixed Surveillance System	A	330,102	237,780	56,950	294,730	U
43	SURTASS	A	36,580	57,872		57,872	U

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

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Base Quantity	FY 2020 Base Cost	FY 2020 OCO for Base Requirements Quantity	FY 2020 OCO for Base Requirements Cost	FY 2020 OCO for Direct War and Enduring Costs Quantity	FY 2020 OCO for Direct War and Enduring Costs Cost	FY 2020 Total OCO Quantity	FY 2020 Total OCO Cost	S e c
30	LCS MCM Mission Modules			197,129							U
31	LCS ASW Mission Modules			27,754							U
32	LCS SUW Mission Modules			26,566							U
33	LCS In-Service Modernization	A		84,972							U
34	Small & Medium UUV	A		40,547							U
	Logistic Support										
35	LSD Midlife & Modernization			40,269							U
	Total Ships Support Equipment			2,797,292				5,800		5,800	
	Budget Activity 02: Communications & Electronics Equip										
	Ship Sonars										
36	SPQ-9B Radar	A		26,195							U
37	AN/SQQ-89 Surf ASW Combat System	A		125,237							U
38	SSN Acoustic Equipment	A		366,968							U
39	Undersea Warfare Support Equipment	A		8,967							U
	ASW Electronic Equipment										
40	Submarine Acoustic Warfare System	A		23,545							U
41	SSTD	A		12,439							U
42	Fixed Surveillance System	A		128,441			310,503		310,503		U
43	SURTASS	A		21,923							U

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Department of the Navy
FY 2020 President's Budget
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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO) Quantity	Cost	S e c
----	-----	-----	-----	-----	-----
30	LCS MCM Mission Modules			197,129	U
31	LCS ASW Mission Modules			27,754	U
32	LCS SUW Mission Modules			26,566	U
33	LCS In-Service Modernization	A		84,972	U
34	Small & Medium UUV	A		40,547	U
	Logistic Support				
35	LSD Midlife & Modernization			40,269	U

	Total Ships Support Equipment			2,803,092	
Budget Activity 02: Communications & Electronics Equip					

	Ship Sonars				
36	SPQ-9B Radar	A		26,195	U
37	AN/SQQ-89 Surf ASW Combat System	A		125,237	U
38	SSN Acoustic Equipment	A		366,968	U
39	Undersea Warfare Support Equipment	A		8,967	U
	ASW Electronic Equipment				
40	Submarine Acoustic Warfare System	A		23,545	U
41	SSTD	A		12,439	U
42	Fixed Surveillance System	A		438,944	U
43	SURTASS	A		21,923	U

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Department of the Navy
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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO) Quantity Cost	FY 2019 Base Enacted Quantity Cost	FY 2019 OCO Enacted Quantity Cost	FY 2019 Total Enacted Quantity Cost	S e c
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	Electronic Warfare Equipment						
44	AN/SLQ-32	A	233,237	366,147		366,147	U
	Reconnaissance Equipment						
45	Shipboard IW Exploit	A	216,615	218,103		218,103	U
46	Automated Identification System (AIS)		4,592	4,028		4,028	U
	Other Ship Electronic Equipment						
47	Cooperative Engagement Capability	B	23,891	39,076		39,076	U
48	Naval Tactical Command Support System (NTCSS)	A	10,570	10,991		10,991	U
49	ATDLS	A	34,873	30,085		30,085	U
50	Navy Command and Control System (NCCS)		5,158	3,769		3,769	U
51	Minesweeping System Replacement	A	57,343	32,367		32,367	U
52	Shallow Water MCM	B	8,796	8,616		8,616	U
53	Navstar GPS Receivers (SPACE)	A	15,923	10,703		10,703	U
54	American Forces Radio and TV Service	A	2,730	2,626		2,626	U
55	Strategic Platform Support Equip	A	6,889	9,467		9,467	U
	Aviation Electronic Equipment						
56	Ashore ATC Equipment	A	77,218	70,849		70,849	U
57	Afloat ATC Equipment	A	37,278	47,890		47,890	U
58	ID Systems	A	21,239	22,777		22,777	U
59	Joint Precision Approach And Landing System (			38,094		38,094	U

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

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Base Quantity	Cost	FY 2020 OCO for Base Requirements Quantity	Cost	FY 2020 OCO for Direct War and Enduring Costs Quantity	Cost	FY 2020 Total OCO Quantity	Cost	S e c
----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-
	Electronic Warfare Equipment										
44	AN/SLQ-32	A		420,154							U
	Reconnaissance Equipment										
45	Shipboard IW Exploit	A		194,758							U
46	Automated Identification System (AIS)			5,368							U
	Other Ship Electronic Equipment										
47	Cooperative Engagement Capability	B		35,128							U
48	Naval Tactical Command Support System (NTCSS)	A		15,154							U
49	ATDLS	A		52,753							U
50	Navy Command and Control System (NCCS)			3,390							U
51	Minesweeping System Replacement	A		19,448							U
52	Shallow Water MCM	B		8,730							U
53	Navstar GPS Receivers (SPACE)	A		32,674							U
54	American Forces Radio and TV Service	A		2,617							U
55	Strategic Platform Support Equip	A		7,973							U
	Aviation Electronic Equipment										
56	Ashore ATC Equipment	A		72,406							U
57	Afloat ATC Equipment	A		67,410							U
58	ID Systems	A		26,059							U
59	Joint Precision Approach And Landing System (			92,695							U

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Appropriation: 1810N Other Procurement, Navy

Line No -----	Item Nomenclature -----	Ident Code -----	FY 2020 Total (Base + OCO) Quantity Cost ----- -----	S e c -
	Electronic Warfare Equipment			
44	AN/SLQ-32	A	420,154	U
	Reconnaissance Equipment			
45	Shipboard IW Exploit	A	194,758	U
46	Automated Identification System (AIS)		5,368	U
	Other Ship Electronic Equipment			
47	Cooperative Engagement Capability	B	35,128	U
48	Naval Tactical Command Support System (NTCSS)	A	15,154	U
49	ATDLS	A	52,753	U
50	Navy Command and Control System (NCCS)		3,390	U
51	Minesweeping System Replacement	A	19,448	U
52	Shallow Water MCM	B	8,730	U
53	Navstar GPS Receivers (SPACE)	A	32,674	U
54	American Forces Radio and TV Service	A	2,617	U
55	Strategic Platform Support Equip	A	7,973	U
	Aviation Electronic Equipment			
56	Ashore ATC Equipment	A	72,406	U
57	Afloat ATC Equipment	A	67,410	U
58	ID Systems	A	26,059	U
59	Joint Precision Approach And Landing System (		92,695	U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO) Quantity Cost	FY 2019 Base Enacted Quantity Cost	FY 2019 OCO Enacted Quantity Cost	FY 2019 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
60	Naval Mission Planning Systems	A	17,396	11,966		11,966	U
	Other Shore Electronic Equipment						
61	Tactical/Mobile C4I Systems	A	40,079	42,010		42,010	U
62	DCGS-N	A	19,012	10,219		10,219	U
63	CANES		311,212	404,891		404,891	U
64	RADIAC	A	10,718	8,175		8,175	U
65	CANES-Intell		46,075	53,465		53,465	U
66	GPETE	A	6,861	5,985		5,985	U
67	MASF		8,081	5,413		5,413	U
68	Integ Combat System Test Facility	A	5,019	6,251		6,251	U
69	EMI Control Instrumentation	A	4,188	4,183		4,183	U
70	Items Less Than \$5 Million	A	116,111	140,092		140,092	U
	Shipboard Communications						
71	Shipboard Tactical Communications	A	23,695	45,450		45,450	U
72	Ship Communications Automation	A	99,545	105,087		105,087	U
73	Communications Items Under \$5M	A	16,280	39,081		39,081	U
	Submarine Communications						
74	Submarine Broadcast Support	A	42,640	25,883		25,883	U
75	Submarine Communication Equipment	A	76,327	78,580		78,580	U

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Base Quantity	Cost	FY 2020 OCO for Base Requirements Quantity	Cost	FY 2020 OCO for Direct War and Enduring Costs Quantity	Cost	FY 2020 Total OCO Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
60	Naval Mission Planning Systems	A		15,296							U
	Other Shore Electronic Equipment										
61	Tactical/Mobile C4I Systems	A		36,226							U
62	DCGS-N	A		21,788							U
63	CANES			426,654							U
64	RADIAC	A		6,450							U
65	CANES-Intell			52,713							U
66	GPETE	A		13,028							U
67	MASF			5,193							U
68	Integ Combat System Test Facility	A		6,028							U
69	EMI Control Instrumentation	A		4,209							U
70	Items Less Than \$5 Million	A		168,436							U
	Shipboard Communications										
71	Shipboard Tactical Communications	A		55,853							U
72	Ship Communications Automation	A		137,861							U
73	Communications Items Under \$5M	A		35,093							U
	Submarine Communications										
74	Submarine Broadcast Support	A		50,833							U
75	Submarine Communication Equipment	A		69,643							U

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Total Obligational Authority
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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO) Quantity	Cost	S e c
----	-----	-----	-----	-----	-----
60	Naval Mission Planning Systems	A		15,296	U
	Other Shore Electronic Equipment				
61	Tactical/Mobile C4I Systems	A		36,226	U
62	DCGS-N	A		21,788	U
63	CANES			426,654	U
64	RADIAC	A		6,450	U
65	CANES-Intell			52,713	U
66	GPETE	A		13,028	U
67	MASF			5,193	U
68	Integ Combat System Test Facility	A		6,028	U
69	EMI Control Instrumentation	A		4,209	U
70	Items Less Than \$5 Million	A		168,436	U
	Shipboard Communications				
71	Shipboard Tactical Communications	A		55,853	U
72	Ship Communications Automation	A		137,861	U
73	Communications Items Under \$5M	A		35,093	U
	Submarine Communications				
74	Submarine Broadcast Support	A		50,833	U
75	Submarine Communication Equipment	A		69,643	U

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Total Obligational Authority
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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO) Quantity Cost	FY 2019 Base Enacted Quantity Cost	FY 2019 OCO Enacted Quantity Cost	FY 2019 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
Satellite Communications							
76	Satellite Communications Systems	A	14,654	38,702	3,200	41,902	U
77	Navy Multiband Terminal (NMT)		62,113	109,385		109,385	U
Shore Communications							
78	Joint Communications Support Element (JCSE)	A	4,256	4,292		4,292	U
Cryptographic Equipment							
79	Info Systems Security Program (ISSP)	A	88,946	151,828		151,828	U
80	MIO Intel Exploitation Team	A	961	951		951	U
Cryptologic Equipment							
81	Cryptologic Communications Equip	A	26,167	17,009	2,000	19,009	U
Other Electronic Support							
82	DON ACTS	A	1,923				U
83	Coast Guard Equipment	A	36,584	40,713		40,713	U
Drug Interdiction Support							
84	Other Drug Interdiction Support	A	17,199				U
Total Communications & Electronics Equip			2,740,513	3,059,558	62,150	3,121,708	
Budget Activity 03: Aviation Support Equipment							

Sonobuoys							
85	Sonobuoys - All Types	A	173,616	216,191	21,156	237,347	U

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Total Obligational Authority
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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Base Quantity	Cost	FY 2020 OCO for Base Requirements Quantity	Cost	FY 2020 OCO for Direct War and Enduring Costs Quantity	Cost	FY 2020 Total OCO Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
Satellite Communications											
76	Satellite Communications Systems	A		45,841							U
77	Navy Multiband Terminal (NMT)			88,021							U
Shore Communications											
78	Joint Communications Support Element (JCSE)	A		4,293							U
Cryptographic Equipment											
79	Info Systems Security Program (ISSP)	A		166,540							U
80	MIO Intel Exploitation Team	A		968							U
Cryptologic Equipment											
81	Cryptologic Communications Equip	A		13,090							U
Other Electronic Support											
82	DON ACTS	A									U
83	Coast Guard Equipment	A		61,370							U
Drug Interdiction Support											
84	Other Drug Interdiction Support	A									U
Total Communications & Electronics Equip				3,255,859			310,503		310,503		
Budget Activity 03: Aviation Support Equipment											

Sonobuoys											
85	Sonobuoys - All Types	A		260,644			2,910		2,910		U

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Total Obligational Authority
(Dollars in Thousands)

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO) Quantity	Cost	S e c
----	-----	-----	-----	-----	-----
Satellite Communications					
76	Satellite Communications Systems	A		45,841	U
77	Navy Multiband Terminal (NMT)			88,021	U
Shore Communications					
78	Joint Communications Support Element (JCSE)	A		4,293	U
Cryptographic Equipment					
79	Info Systems Security Program (ISSP)	A		166,540	U
80	MIO Intel Exploitation Team	A		968	U
Cryptologic Equipment					
81	Cryptologic Communications Equip	A		13,090	U
Other Electronic Support					
82	DON ACTS	A			U
83	Coast Guard Equipment	A		61,370	U
Drug Interdiction Support					
84	Other Drug Interdiction Support	A			U
Total Communications & Electronics Equip				3,566,362	
Budget Activity 03: Aviation Support Equipment					

Sonobuoys					
85	Sonobuoys - All Types	A		263,554	U

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Total Obligational Authority
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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO) Quantity Cost	FY 2019 Base Enacted Quantity Cost	FY 2019 OCO Enacted Quantity Cost	FY 2019 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
	Aircraft Support Equipment						
86	Minotaur	A					U
87	Weapons Range Support Equipment	A	66,941	93,864		93,864	U
88	Aircraft Support Equipment	A	103,340	105,943		105,943	U
89	Advanced Arresting Gear (AAG)	A	10,900	11,054		11,054	U
90	Meteorological Equipment	A	21,000	21,072		21,072	U
91	DCRS/DPL	A	660	656		656	U
92	Legacy Airborne MCM	A	19,297	11,299		11,299	U
93	Lamps Equipment			594		594	U
94	Aviation Support Equipment	A	63,995	37,874		37,874	U
95	UMCS-Unman Carrier Aviation(UCA)Mission Cntrl	A		18,019		18,019	U
	Total Aviation Support Equipment		459,749	516,566	21,156	537,722	
	Budget Activity 04: Ordnance Support Equipment						
	Ship Gun System Equipment						
96	Ship Gun Systems Equipment	A	5,277	5,337		5,337	U
	Ship Missile Systems Equipment						
97	Harpoon Support Equipment	A					U
98	Ship Missile Support Equipment	A	266,770	200,118		200,118	U
99	Tomahawk Support Equipment	A	73,184	86,045		86,045	U

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Line No	Item Nomenclature	Ident Code	FY 2020 Base Quantity	Cost	FY 2020 OCO for Base Requirements Quantity	Cost	FY 2020 OCO for Direct War and Enduring Costs Quantity	Cost	FY 2020 Total OCO Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
Aircraft Support Equipment											
86	Minotaur	A		5,000							U
87	Weapons Range Support Equipment	A		101,843							U
88	Aircraft Support Equipment	A		145,601			13,420		13,420		U
89	Advanced Arresting Gear (AAG)	A		4,725							U
90	Meteorological Equipment	A		14,687							U
91	DCRS/DPL	A									U
92	Legacy Airborne MCM	A		19,250							U
93	Lamps Equipment			792							U
94	Aviation Support Equipment	A		55,415			500		500		U
95	UMCS-Unman Carrier Aviation(UCA)Mission Cntrl	A		32,668							U
Total Aviation Support Equipment				640,625			16,830		16,830		
Budget Activity 04: Ordnance Support Equipment											

Ship Gun System Equipment											
96	Ship Gun Systems Equipment	A		5,451							U
Ship Missile Systems Equipment											
97	Harpoon Support Equipment	A		1,100							U
98	Ship Missile Support Equipment	A		228,104							U
99	Tomahawk Support Equipment	A		78,593							U

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Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO) Quantity	Cost	S e c
----	-----	-----	-----	-----	-----
Aircraft Support Equipment					
86	Minotaur	A		5,000	U
87	Weapons Range Support Equipment	A		101,843	U
88	Aircraft Support Equipment	A		159,021	U
89	Advanced Arresting Gear (AAG)	A		4,725	U
90	Meteorological Equipment	A		14,687	U
91	DCRS/DPL	A			U
92	Legacy Airborne MCM	A		19,250	U
93	Lamps Equipment			792	U
94	Aviation Support Equipment	A		55,915	U
95	UMCS-Unman Carrier Aviation(UCA)Mission Cntrl	A		32,668	U
Total Aviation Support Equipment				657,455	
Budget Activity 04: Ordnance Support Equipment					

Ship Gun System Equipment					
96	Ship Gun Systems Equipment	A		5,451	U
Ship Missile Systems Equipment					
97	Harpoon Support Equipment	A		1,100	U
98	Ship Missile Support Equipment	A		228,104	U
99	Tomahawk Support Equipment	A		78,593	U

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Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO) Quantity Cost	FY 2019 Base Enacted Quantity Cost	FY 2019 OCO Enacted Quantity Cost	FY 2019 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
	FBM Support Equipment						
100	Strategic Missile Systems Equip	A	238,675	256,817		256,817	U
	ASW Support Equipment						
101	SSN Combat Control Systems	A	146,972	125,903		125,903	U
102	ASW Support Equipment	A	23,209	19,436		19,436	U
	Other Ordnance Support Equipment						
103	Explosive Ordnance Disposal Equip	B	63,766	14,258	27,580	41,838	U
104	Items Less Than \$5 Million	A	5,981	5,378		5,378	U
	Other Expendable Ordnance						
105	Anti-Ship Missile Decoy System	A					U
106	Submarine Training Device Mods	A	72,756	56,834		56,834	U
107	Surface Training Equipment	A	81,595	227,791		227,791	U
	Total Ordnance Support Equipment		978,185	997,917	27,580	1,025,497	
	Budget Activity 05: Civil Engineering Support Equip						
	Civil Engineering Support Equipment						
108	Passenger Carrying Vehicles	A	5,299	4,867	170	5,037	U
109	General Purpose Trucks	A	3,451	2,674	400	3,074	U
110	Construction & Maintenance Equip	A	36,173	20,994		20,994	U
111	Fire Fighting Equipment	A	5,388	17,189	770	17,959	U

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Line No	Item Nomenclature	Ident Code	FY 2020 Base Quantity	Cost	FY 2020 OCO for Base Requirements Quantity	Cost	FY 2020 OCO for Direct War and Enduring Costs Quantity	Cost	FY 2020 Total OCO Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
	FBM Support Equipment										
100	Strategic Missile Systems Equip	A		280,510							U
	ASW Support Equipment										
101	SSN Combat Control Systems	A		148,547							U
102	ASW Support Equipment	A		21,130							U
	Other Ordnance Support Equipment										
103	Explosive Ordnance Disposal Equip	B		15,244			15,307		15,307		U
104	Items Less Than \$5 Million	A		5,071							U
	Other Expendable Ordnance										
105	Anti-Ship Missile Decoy System	A		41,962							U
106	Submarine Training Device Mods	A		75,057							U
107	Surface Training Equipment	A		233,175							U
	Total Ordnance Support Equipment			1,133,944			15,307		15,307		
	Budget Activity 05: Civil Engineering Support Equip										
	Civil Engineering Support Equipment										
108	Passenger Carrying Vehicles	A		4,562			173		173		U
109	General Purpose Trucks	A		10,974			408		408		U
110	Construction & Maintenance Equip	A		43,191							U
111	Fire Fighting Equipment	A		21,142			785		785		U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO) Quantity Cost	S e c
----	-----	-----	-----	-----
	FBM Support Equipment			
100	Strategic Missile Systems Equip	A	280,510	U
	ASW Support Equipment			
101	SSN Combat Control Systems	A	148,547	U
102	ASW Support Equipment	A	21,130	U
	Other Ordnance Support Equipment			
103	Explosive Ordnance Disposal Equip	B	30,551	U
104	Items Less Than \$5 Million	A	5,071	U
	Other Expendable Ordnance			
105	Anti-Ship Missile Decoy System	A	41,962	U
106	Submarine Training Device Mods	A	75,057	U
107	Surface Training Equipment	A	233,175	U

	Total Ordnance Support Equipment		1,149,251	
	Budget Activity 05: Civil Engineering Support Equip			

	Civil Engineering Support Equipment			
108	Passenger Carrying Vehicles	A	4,735	U
109	General Purpose Trucks	A	11,382	U
110	Construction & Maintenance Equip	A	43,191	U
111	Fire Fighting Equipment	A	21,927	U

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Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO) Quantity Cost	FY 2019 Base Enacted Quantity Cost	FY 2019 OCO Enacted Quantity Cost	FY 2019 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
112	Tactical Vehicles	B	22,035	19,916	7,298	27,214	U
113	Amphibious Equipment	A	12,162	6,176		6,176	U
114	Pollution Control Equipment	A	2,748	2,713		2,713	U
115	Items Under \$5 Million	A	19,434	35,540		35,540	U
116	Physical Security Vehicles	A	1,170	1,155		1,155	U
	Total Civil Engineering Support Equip		107,860	111,224	8,638	119,862	
	Budget Activity 06: Supply Support Equipment						
	Supply Support Equipment						
117	Supply Equipment	A	22,309	17,386		17,386	U
118	First Destination Transportation	A	5,992	5,375	500	5,875	U
119	Special Purpose Supply Systems	A	482,916	580,371		580,371	U
	Total Supply Support Equipment		511,217	603,132	500	603,632	
	Budget Activity 07: Personnel & Command Support Equip						
	Training Devices						
120	Training Support Equipment	A		3,400		3,400	U
121	Training and Education Equipment	A	26,024	20,683		20,683	U
	Command Support Equipment						
122	Command Support Equipment	A	78,406	61,577		61,577	U
123	Medical Support Equipment	A	22,483	10,352	6,500	16,852	U

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Line No	Item Nomenclature	Ident Code	FY 2020 Base Quantity	Cost	FY 2020 OCO for Base Requirements Quantity	Cost	FY 2020 OCO for Direct War and Enduring Costs Quantity	Cost	FY 2020 Total OCO Quantity	Cost	S e c
112	Tactical Vehicles	B		33,432							U
113	Amphibious Equipment	A									U
114	Pollution Control Equipment	A		2,633							U
115	Items Under \$5 Million	A		53,467							U
116	Physical Security Vehicles	A		1,173							U
	Total Civil Engineering Support Equip			170,574				1,366		1,366	
Budget Activity 06: Supply Support Equipment											
Supply Support Equipment											
117	Supply Equipment	A		16,730			100		100		U
118	First Destination Transportation	A		5,389			510		510		U
119	Special Purpose Supply Systems	A		654,674							U
	Total Supply Support Equipment			676,793			610		610		
Budget Activity 07: Personnel & Command Support Equip											
Training Devices											
120	Training Support Equipment	A		3,633							U
121	Training and Education Equipment	A		97,636							U
Command Support Equipment											
122	Command Support Equipment	A		66,102			2,800		2,800		U
123	Medical Support Equipment	A		3,633			1,794		1,794		U

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO) Quantity	Cost	S e c
----	-----	-----	-----	-----	-----
112	Tactical Vehicles	B		33,432	U
113	Amphibious Equipment	A			U
114	Pollution Control Equipment	A		2,633	U
115	Items Under \$5 Million	A		53,467	U
116	Physical Security Vehicles	A		1,173	U
	Total Civil Engineering Support Equip			171,940	
Budget Activity 06: Supply Support Equipment					

	Supply Support Equipment				
117	Supply Equipment	A		16,830	U
118	First Destination Transportation	A		5,899	U
119	Special Purpose Supply Systems	A		654,674	U
	Total Supply Support Equipment			677,403	
Budget Activity 07: Personnel & Command Support Equip					

	Training Devices				
120	Training Support Equipment	A		3,633	U
121	Training and Education Equipment	A		97,636	U
	Command Support Equipment				
122	Command Support Equipment	A		68,902	U
123	Medical Support Equipment	A		5,427	U

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Line No	Item Nomenclature	Ident Code	FY 2018 (Base + OCO) Quantity Cost	FY 2019 Base Enacted Quantity Cost	FY 2019 OCO Enacted Quantity Cost	FY 2019 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
125	Naval MIP Support Equipment	A	2,030	1,984		1,984	U
126	Operating Forces Support Equipment	A	23,300	15,131		15,131	U
127	C4ISR Equipment	A	4,010	3,576		3,576	U
128	Environmental Support Equipment	A	30,644	31,902	2,200	34,102	U
129	Physical Security Equipment	A	139,972	175,436	19,389	194,825	U
130	Enterprise Information Technology	A	19,733	25,393		25,393	U
	Other						
133	Next Generation Enterprise Service	A	89,178	96,269		96,269	U
999	Classified Programs		25,907	15,681	4,800	20,481	U
	Total Personnel & Command Support Equip		461,687	461,384	32,889	494,273	
	Budget Activity 08: Spares and Repair Parts						
	Spares and Repair Parts						
134	Spares and Repair Parts	A	287,453	307,575		307,575	U
	Total Spares and Repair Parts		287,453	307,575		307,575	
	Total Other Procurement, Navy		8,258,598	9,097,138	181,173	9,278,311	

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Line No	Item Nomenclature	Ident Code	FY 2020 Base Quantity	Cost	FY 2020 OCO for Base Requirements Quantity	Cost	FY 2020 OCO for Direct War and Enduring Costs Quantity	Cost	FY 2020 Total OCO Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-----	----	-
125	Naval MIP Support Equipment	A		6,097							U
126	Operating Forces Support Equipment	A		16,905			1,090		1,090		U
127	C4ISR Equipment	A		30,146							U
128	Environmental Support Equipment	A		21,986			200		200		U
129	Physical Security Equipment	A		160,046			1,300		1,300		U
130	Enterprise Information Technology	A		56,899							U
	Other										
133	Next Generation Enterprise Service	A		122,832							U
999	Classified Programs			16,346							U
	Total Personnel & Command Support Equip			602,261			7,184		7,184		
	Budget Activity 08: Spares and Repair Parts										
	Spares and Repair Parts										
134	Spares and Repair Parts	A		375,608							U
	Total Spares and Repair Parts			375,608							
	Total Other Procurement, Navy			9,652,956			357,600		357,600		

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Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2020 Total (Base + OCO) Quantity	Cost	S e c
----	-----	-----	-----	-----	-----
125	Naval MIP Support Equipment	A		6,097	U
126	Operating Forces Support Equipment	A		17,995	U
127	C4ISR Equipment	A		30,146	U
128	Environmental Support Equipment	A		22,186	U
129	Physical Security Equipment	A		161,346	U
130	Enterprise Information Technology	A		56,899	U
	Other				
133	Next Generation Enterprise Service	A		122,832	U
999	Classified Programs			16,346	U

	Total Personnel & Command Support Equip			609,445	
	Budget Activity 08: Spares and Repair Parts				

	Spares and Repair Parts				
134	Spares and Repair Parts	A		375,608	U

	Total Spares and Repair Parts			375,608	

	Total Other Procurement, Navy			10,010,556	

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5	01	09	0900	DDG Mod.....	Volume 1 - 181
6	01	09	0910	Firefighting Equipment.....	Volume 1 - 261
7	01	09	0925	Command and Control Switchboard.....	Volume 1 - 281
8	01	09	0933	LHA/LHD Midlife.....	Volume 1 - 289
9	01	09	0935	Pollution Control Equipment.....	Volume 1 - 353
10	01	09	0941	Submarine Support Equipment.....	Volume 1 - 371
11	01	09	0942	Virginia Class Support Equipment.....	Volume 1 - 383
12	01	09	0944	LCS Class Support Equipment.....	Volume 1 - 399
13	01	09	0945	Submarine Batteries.....	Volume 1 - 411
14	01	09	0946	LPD Class Support Equipment.....	Volume 1 - 419
15	01	09	0947	DDG 1000 Class Support Equipment.....	Volume 1 - 467
16	01	09	0950	Strategic Platform Support Equip.....	Volume 1 - 477

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19	01	09	0970	LCAC.....	Volume 1 - 523
20	01	09	0977	Underwater EOD Programs.....	Volume 1 - 527
21	01	09	0981	Items less than \$5 Million.....	Volume 1 - 551
22	01	09	0989	Chemical Warfare Detectors.....	Volume 1 - 593
23	01	09	0990	Submarine Life Support System.....	Volume 1 - 627
24	01	10	1010	Reactor Power Units.....	Volume 1 - 633
25	01	10	1020	Reactor Components.....	Volume 1 - 637
26	01	11	1130	Diving and Salvage Equipment.....	Volume 1 - 641
27	01	12	1210	Standard Boats.....	Volume 1 - 659
28	01	14	1445	Operating Forces IPE.....	Volume 1 - 673
29	01	15	1600	LCS Common Mission Modules Equipment.....	Volume 1 - 687
30	01	15	1601	LCS MCM Mission Modules.....	Volume 1 - 701
31	01	15	1602	LCS ASW Mission Modules.....	Volume 1 - 719
32	01	15	1603	LCS SUW Mission Modules.....	Volume 1 - 731
33	01	15	1604	LCS In-Service Modernization.....	Volume 1 - 739
34	01	15	1611	Small & Medium UUV.....	Volume 1 - 753

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35	01	16	1610	LSD Midlife & Modernization.....	Volume 1 - 761

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37	02	02	2136	AN/SQQ-89 Surf ASW Cmbt Sys.....	Volume 2 - 11
38	02	02	2150	SSN Acoustic Equipment.....	Volume 2 - 43
39	02	02	2176	Undersea Warfare Support Equipment.....	Volume 2 - 87
40	02	03	2210	Submarine Acoustic Warfare System.....	Volume 2 - 95
41	02	03	2213	Surface Ship Torpedo Def (SSTD).....	Volume 2 - 119
42	02	03	2225	Fixed Surveillance System.....	Volume 2 - 129
43	02	03	2237	SURTASS.....	Volume 2 - 133
44	02	04	2312	AN/SLQ-32.....	Volume 2 - 157
45	02	05	2360	Shipboard IW Exploit.....	Volume 2 - 193
46	02	05	2361	Automatic Identification System (AIS).....	Volume 2 - 217
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50	02	07	2618	Navy Command and Control System (NCCS).....	Volume 2 - 273
51	02	07	2622	Minesweeping System Replacement.....	Volume 2 - 281
52	02	07	2624	Shallow Water MCM.....	Volume 2 - 293
53	02	07	2657	NAVSTAR GPS Receivers (Space).....	Volume 2 - 303
54	02	07	2666	American Forces Radio and TV Service (AFRTS).....	Volume 2 - 315
55	02	07	2676	Strategic Platform Support Equip.....	Volume 2 - 323
56	02	09	2820	Ashore ATC Equipment.....	Volume 2 - 327
57	02	09	2830	Afloat ATC Equipment.....	Volume 2 - 383
58	02	09	2851	ID Systems.....	Volume 2 - 425
59	02	09	2867	Joint Precision Approach and Landing System(JPALS).....	Volume 2 - 459
60	02	09	2876	Naval Mission Planning Systems.....	Volume 2 - 465
61	02	10	2906	Tactical/Mobile C4I Systems.....	Volume 2 - 471
62	02	10	2914	Distributed Common Ground System-Navy (DCGS-N).....	Volume 2 - 489
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68	02	10	2960	Integ Combat System Test Facility.....	Volume 2 - 561
69	02	10	2970	EMI Control Instrumentation.....	Volume 2 - 565
70	02	10	2980	Items less than \$5 Million.....	Volume 2 - 569
71	02	11	3010	Shipboard Tactical Comms.....	Volume 2 - 599
72	02	11	3050	Ship Communications Automation.....	Volume 2 - 609
73	02	11	3057	Communications Items under \$5M.....	Volume 2 - 633
74	02	12	3107	Submarine Broadcast Support.....	Volume 2 - 645
75	02	12	3130	Submarine Communication Equipment.....	Volume 2 - 649
76	02	13	3215	Satellite Communications Systems.....	Volume 2 - 653
77	02	13	3216	Navy Multiband Terminal (NMT).....	Volume 2 - 669
78	02	14	3302	Joint Communications Support Element (JCSE).....	Volume 2 - 687
79	02	15	3415	Info Systems Security Program (ISSP).....	Volume 2 - 691
80	02	15	3417	MIO Intel Exploitation Team.....	Volume 2 - 729
81	02	16	3501	Cryptologic Communications Equip.....	Volume 2 - 733
83	02	17	3620	Coast Guard Equipment.....	Volume 2 - 745
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88	03	03	4213	Aircraft Support Equipment.....	Volume 3 - 27
89	03	03	4217	Advanced Arresting Gear (AAG).....	Volume 3 - 77
90	03	03	4226	Meteorological Equipment.....	Volume 3 - 89
91	03	03	4242	DCRS/DPL.....	Volume 3 - 97
92	03	03	4248	Legacy Airborne MCM.....	Volume 3 - 101
93	03	03	4250	Common Control System.....	Volume 3 - 115
94	03	03	4268	Aviation Support Equipment.....	Volume 3 - 119
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100	04	04	5358	Strategic Missile Systems Equip.....	Volume 4 - 59
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104	04	06	5543	Items Less Than \$5 Million.....	Volume 4 - 145
105	04	07	5530	Anti-ship Missile Decoy System.....	Volume 4 - 149
106	04	07	5661	Submarine Training Device Mods.....	Volume 4 - 161
107	04	07	5664	Surface Training Equipment.....	Volume 4 - 177

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109	05	01	6007	General Purpose Trucks.....	Volume 5 - 15
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113	05	01	6033	Amphibious Equipment.....	Volume 5 - 63
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122	07	02	8106	Command Support Equipment.....	Volume 5 - 169
123	07	02	8109	Medical Support Equipment.....	Volume 5 - 199
125	07	02	8114	Naval MIP Support Equipment.....	Volume 5 - 209
126	07	02	8118	Operating Forces Supt Equip.....	Volume 5 - 215
127	07	02	8120	C4ISR Equipment.....	Volume 5 - 221
128	07	02	8126	Environmental Support Equipment.....	Volume 5 - 229
129	07	02	8128	Physical Security Equipment.....	Volume 5 - 247
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ASW Support Equipment	5429	102	04	05.....	Volume 4 - 121
Adv Tact Data Link Sys (ATDLS)	2614	49	02	07.....	Volume 2 - 261
Advanced Arresting Gear (AAG)	4217	89	03	03.....	Volume 3 - 77
Afloat ATC Equipment	2830	57	02	09.....	Volume 2 - 383
Aircraft Support Equipment	4213	88	03	03.....	Volume 3 - 27
American Forces Radio and TV Service (AFRTS)	2666	54	02	07.....	Volume 2 - 315
Amphibious Equipment	6033	113	05	01.....	Volume 5 - 63
Anti-ship Missile Decoy System	5530	105	04	07.....	Volume 4 - 149
Ashore ATC Equipment	2820	56	02	09.....	Volume 2 - 327
Automatic Identification System (AIS)	2361	46	02	05.....	Volume 2 - 217
Aviation Support Equipment	4268	94	03	03.....	Volume 3 - 119
C4ISR Equipment	8120	127	07	02.....	Volume 5 - 221
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Command and Control Switchboard	0925	7	01	09.....	Volume 1 - 281
Common Control System	4250	93	03	03.....	Volume 3 - 115
Communications Items under \$5M	3057	73	02	11.....	Volume 2 - 633
Construction & Maint Equip	6024	110	05	01.....	Volume 5 - 29
Cooperative Engagement Capability	2606	47	02	07.....	Volume 2 - 223
Cryptologic Communications Equip	3501	81	02	16.....	Volume 2 - 733
DCRS/DPL	4242	91	03	03.....	Volume 3 - 97
DDG 1000 Class Support Equipment	0947	15	01	09.....	Volume 1 - 467
DDG Mod	0900	5	01	09.....	Volume 1 - 181
Deep Subm Sys Proj (DSSP) Equip	0955	17	01	09.....	Volume 1 - 485
Distributed Common Ground System-Navy (DCGS-N)	2914	62	02	10.....	Volume 2 - 489
Diving and Salvage Equipment	1130	26	01	11.....	Volume 1 - 641
EMI Control Instrumentation	2970	69	02	10.....	Volume 2 - 565
Enterprise Information Technology	8161	130	07	02.....	Volume 5 - 257
Environmental Support Equipment	8126	128	07	02.....	Volume 5 - 229
Explosive Ordnance Disposal Equip	5509	103	04	06.....	Volume 4 - 133
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Gen Purp Elec Test Equip (GPETE)	2940	66	02	10.....	Volume 2 - 549
General Purpose Trucks	6007	109	05	01.....	Volume 5 - 15
HARPOON Support Equipment	5227	97	04	03.....	Volume 4 - 5
ID Systems	2851	58	02	09.....	Volume 2 - 425
Info Systems Security Program (ISSP)	3415	79	02	15.....	Volume 2 - 691
Integ Combat System Test Facility	2960	68	02	10.....	Volume 2 - 561
Items Less Than \$5 Million	5543	104	04	06.....	Volume 4 - 145
Items less than \$5 Million	0981	21	01	09.....	Volume 1 - 551
Items less than \$5 Million	2980	70	02	10.....	Volume 2 - 569
Items under \$5 million	6060	115	05	01.....	Volume 5 - 75
Joint Communications Support Element (JCSE)	3302	78	02	14.....	Volume 2 - 687
Joint Precision Approach and Landing System(JPALS)	2867	59	02	09.....	Volume 2 - 459
LCAC	0970	19	01	09.....	Volume 1 - 523
LCS ASW Mission Modules	1602	31	01	15.....	Volume 1 - 719
LCS Class Support Equipment	0944	12	01	09.....	Volume 1 - 399
LCS Common Mission Modules Equipment	1600	29	01	15.....	Volume 1 - 687
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LHA/LHD Midlife	0933	8	01	09.....	Volume 1 - 289
LPD Class Support Equipment	0946	14	01	09.....	Volume 1 - 419
LSD Midlife & Modernization	1610	35	01	16.....	Volume 1 - 761
Legacy Airborne MCM	4248	92	03	03.....	Volume 3 - 101
MIO Intel Exploitation Team	3417	80	02	15.....	Volume 2 - 729
Medical Support Equipment	8109	123	07	02.....	Volume 5 - 199
Meteorological Equipment	4226	90	03	03.....	Volume 3 - 89
Minesweeping System Replacement	2622	51	02	07.....	Volume 2 - 281
Minotaur	3640	86	03	03.....	Volume 3 - 13
NAVSTAR GPS Receivers (Space)	2657	53	02	07.....	Volume 2 - 303
Naval MIP Support Equipment	8114	125	07	02.....	Volume 5 - 209
Naval Mission Planning Systems	2876	60	02	09.....	Volume 2 - 465
Naval Tact Cmd Supt Sys (NTCSS)	2611	48	02	07.....	Volume 2 - 251
Navy Command and Control System (NCCS)	2618	50	02	07.....	Volume 2 - 273
Navy Multiband Terminal (NMT)	3216	77	02	13.....	Volume 2 - 669
Network Tactical Common Data Link (CDL)	2950	67	02	10.....	Volume 2 - 555
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Physical Security Equipment	8128	129	07	02.....	Volume 5 - 247
Physical Security Vehicles	6075	116	05	01.....	Volume 5 - 97
Pollution Control Equipment	0935	9	01	09.....	Volume 1 - 353
Pollution Control Equipment	6058	114	05	01.....	Volume 5 - 71
RADIAC	2920	64	02	10.....	Volume 2 - 525
Reactor Components	1020	25	01	10.....	Volume 1 - 637
Reactor Power Units	1010	24	01	10.....	Volume 1 - 633
SPQ-9B Radar	2026	36	02	02.....	Volume 2 - 1
SSN Acoustic Equipment	2150	38	02	02.....	Volume 2 - 43
SSN Combat Control Systems	5420	101	04	05.....	Volume 4 - 89
SURTASS	2237	43	02	03.....	Volume 2 - 133
Satellite Communications Systems	3215	76	02	13.....	Volume 2 - 653
Shallow Water MCM	2624	52	02	07.....	Volume 2 - 293
Shallow Water Multi-Sensor Surveillance	2562	999	02	06.....	Volume 2 - 757
Ship Communications Automation	3050	72	02	11.....	Volume 2 - 609
Ship Gun Systems Equipment	5111	96	04	02.....	Volume 4 - 1
Ship Missile Support Equipment	5231	98	04	03.....	Volume 4 - 9

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Strategic Platform Support Equip	2676	55	02	07.....	Volume 2 - 323
Sub Periscope, Imaging and Supt Equip Prog	0840	4	01	09.....	Volume 1 - 125
Submarine Acoustic Warfare System	2210	40	02	03.....	Volume 2 - 95
Submarine Batteries	0945	13	01	09.....	Volume 1 - 411
Submarine Broadcast Support	3107	74	02	12.....	Volume 2 - 645
Submarine Communication Equipment	3130	75	02	12.....	Volume 2 - 649
Submarine Life Support System	0990	23	01	09.....	Volume 1 - 627
Submarine Support Equipment	0941	10	01	09.....	Volume 1 - 371
Submarine Training Device Mods	5661	106	04	07.....	Volume 4 - 161
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Tactical Vehicles	6028	112	05	01.....	Volume 5 - 57
Tactical/Mobile C4I Systems	2906	61	02	10.....	Volume 2 - 471
Tomahawk Support Equipment	5253	99	04	03.....	Volume 4 - 53
Training Support Equipment	8081	120	07	01.....	Volume 5 - 119
Training and Education Equipment	8101	121	07	01.....	Volume 5 - 139
UMCS-Unman Carrier Aviation(UCA)Mission Cntrl Stn	4269	95	03	03.....	Volume 3 - 145
Undersea Warfare Support Equipment	2176	39	02	02.....	Volume 2 - 87
Underwater EOD Programs	0977	20	01	09.....	Volume 1 - 527
Virginia Class Support Equipment	0942	11	01	09.....	Volume 1 - 383
Weapons Range Support Equipment	4204	87	03	03.....	Volume 3 - 17

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	11.514	5.299	5.037	4.562	0.173	4.735	4.563	4.414	4.518	4.609	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	11.514	5.299	5.037	4.562	0.173	4.735	4.563	4.414	4.518	4.609	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	11.514	5.299	5.037	4.562	0.173	4.735	4.563	4.414	4.518	4.609	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 budget line item funds procurement of passenger-carrying vehicles consisting of buses, automobiles, ambulances, and various utility and carryall trucks up to 9200 lbs. Gross Vehicle Weight Rating (GVWR). These vehicles are utilized by Naval operating forces and shore activities for essential transportation of personnel in the execution of official Navy business. Funding in this line also supports the Joint POW/MIA Accounting Command (JPAC). Buses procured are 20 to 60 passenger school buses, shuttle buses, intercity buses, and ambulance buses, which provide the most cost effective means to transport groups of people between various locations. Buses are used to transport sailors/airmen and reserve personnel for flight/ship logistic related assignments, mandatory military training and exercises, and for transportation of personnel between administrative areas, ships/airfields, and industrial areas on a daily basis (both scheduled and intermittent). Automobiles are used to transport small groups of personnel, on and off base, for various work related activities. Law enforcement automobiles provide essential transportation services to insure optimum responsiveness in support of DOD intelligence and base security missions. They are used in Naval intelligence, investigative and surveillance operations, security patrols, and other law enforcement activities. Ambulances are used by the Medical Corps at Navy hospitals, clinics, and by Naval Expeditionary Medical Command Units. Modular ambulances are used for emergency transport of personnel where emergency medical services are provided in route. Field ambulances provide the same emergency service, but are four-wheel drive to access remote sites in support of field units. Patient transport ambulances are used for transporting stabilized patients to specialized care/other medical facilities. Ambulance conversion buses are used to move mixed loads of ambulatory and/or stretcher-borne patients. Maintenance/utility trucks are utilized to transport tools, supplies, materials, and equipment necessary for maintenance personnel performing facility maintenance at shore facilities. Carryalls are used for transporting sailors, flight crews, maintenance, and civilian personnel to work sites or for other mission related activities.												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment	P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Passenger Carrying Vehicles	P-5a			- / 11.514	- / 5.299	- / 5.037	- / 4.562	- / 0.173	- / 4.735
P-40	Total Gross/Weapon System Cost				- / 11.514	- / 5.299	- / 5.037	- / 4.562	- / 0.173	- / 4.735

*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:

The funds requested in FY 2020 will provide for recapitalization requirements to support fielding a fleet of equipment within useful life expectancy. Decrease in funding is due a lower amount of vehicles in the replacement cycle in FY2020. The Program Office is funded to the level required to replace vehicles that have met/exceeded their service life.

OCO:

The funds requested in FY 2020 will provide for recapitalization requirements to support fielding a fleet of equipment within useful life expectancy.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles							Aggregated Items Title: Passenger Carrying Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) Buses																				
1.1) 332A 44 PASSENGER CARRYING BUS ^(†)	A		-	-	-	119,107.00	4	0.476	121,489.00	3	0.364	123,919.00	6	0.744	-	-	-	123,919.00	6	0.744
1.3) BUS BOC 20 PASSENGER RHD ^(†)	A		-	-	-	-	-	-	-	-	-	76,000.00	1	0.076	-	-	-	76,000.00	1	0.076
1.4) BUS BOC 25 PASSENGER RHD ^(†)	A		-	-	-	62,000.00	1	0.062	63,240.00	1	0.063	64,505.00	1	0.065	-	-	-	64,505.00	1	0.065
1.5) BUS MOTOR BOC 36 PASSENGER 4X2 DED AUTOMATIC ^(†)	A		126,000.00	1	0.126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) BUS MOTOR BOC 36 PASSENGER 4X2 DED AUTOMATIC (AFV) ^(†)	A		116,636.36	11	1.283	-	-	-	-	-	-	124,039.00	2	0.248	-	-	-	124,039.00	2	0.248
Subtotal: 1) Buses			-	-	1.409	-	-	0.538	-	-	0.427	-	-	1.133	-	-	-	-	-	1.133
2) Automobiles																				
2.1) SEDAN AUTO ^(†)	A		-	-	-	37,240.00	11	0.410	37,866.00	11	0.417	-	-	-	-	-	-	-	-	-
2.2) SEDAN COMPACT 5 PASSENGER 4 DOOR (AFV) ^(†)	A		36,400.00	15	0.546	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.3) SEDAN COMPACT 5 PASSENGER 4 DOOR AC ^(†)	A		-	-	-	22,350.00	16	0.358	22,950.00	6	0.138	-	-	-	-	-	-	-	-	-
2.4) SEDAN COMPACT 5 PASSENGER 4 DOOR RHD ^(†)	A		-	-	-	32,000.00	4	0.128	32,640.00	2	0.065	33,193.00	7	0.232	33,193.00	5	0.166	33,193.00	12	0.398
2.5) SEDAN COMPACT FOREIGN ^(†)	A		27,846.15	13	0.362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.6) SEDAN MIDSIZE (SURVEILLANCE), 5 PASS 4 DOOR UNMARKED RHD ^(†)	A		-	-	-	-	-	-	-	-	-	40,000.00	2	0.080	-	-	-	40,000.00	2	0.080
2.7) SEDAN MIDSIZE 5 PASSENGER 4 DOOR RHD ^(†)	A		-	-	-	-	-	-	-	-	-	35,000.00	3	0.105	-	-	-	35,000.00	3	0.105
Subtotal: 2) Automobiles			-	-	0.908	-	-	0.896	-	-	0.620	-	-	0.417	-	-	0.166	-	-	0.583

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles							Aggregated Items Title: Passenger Carrying Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) Ambulances																				
3.1) AMBULANCE BUS CONV FC 8-12L R/LOAD NONSTANDARD RHD ^(†)	A		-	-	-	-	-	-	64,000.00	1	0.064	-	-	-	-	-	-	-	-	-
3.2) TRUCK AMB VAN CONV 4X2 2 LITTER RHD JAPAN ^(†)	A		-	-	-	70,000.00	9	0.630	71,400.00	2	0.143	72,828.00	6	0.437	-	-	-	72,828.00	6	0.437
3.3) TRUCK AMBULANCE FIELD COM 4 LITTER 4X4 RIGHT HAND DRIVE ^(†)	A		86,000.00	11	0.946	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.4) TRUCK AMBULANCE FIELD COM 4X4 DED ^(†)	A		94,000.00	4	0.376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.5) TRUCK AMBULANCE MODULAR BODY 4X4 2 LITTER (AFV) ^(†)	A		114,800.00	10	1.148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.6) TRUCK AMBULANCE TYPE 1 CONV CAB-CHASSIS NARROW MODULAR BODY NONSTANDARD ^(†)	A		-	-	-	70,000.00	1	0.070	-	-	-	-	-	-	-	-	-	-	-	-
3.7) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER (AFV) ^(†)	A		64,727.27	11	0.712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.8) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER RIGHT HAND DRIVE ^(†)	A		65,300.00	10	0.653	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) Ambulances			-	-	3.835	-	-	0.700	-	-	0.207	-	-	0.437	-	-	-	-	-	0.437
4) Utility and Carryall Trucks																				
4.2) 105A, SPORT UTILITY VEHICLE 4X4 MIDSIZE ^(†)	A		-	-	-	28,210.00	7	0.197	-	-	-	29,350.00	7	0.205	-	-	-	29,350.00	7	0.205
4.3) 105B, SPORT UTILITY VEHICLE 4X4 MIDSIZE ^(†)	A		-	-	-	34,040.00	5	0.170	34,721.00	10	0.347	34,915.00	14	0.489	-	-	-	34,915.00	14	0.489

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles									Aggregated Items Title: Passenger Carrying Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
4.4) 106, SPORT UTILITY VEHICLE 4X4 ^(†)	A		-	-	-	35,218.00	8	0.282	35,922.00	5	0.180	-	-	-	-	-	-	-	-	-
4.8) 24, TRUCK VAN 15 PASSENGER 4X2 ^(†)	A		-	-	-	25,457.00	18	0.458	26,119.00	8	0.209	26,541.00	11	0.292	-	-	-	26,541.00	11	0.292
4.9) 24, TRUCK VAN 7 PASSENGER 4X2 ^(†)	A		-	-	-	-	-	-	-	-	-	28,900.00	12	0.347	-	-	-	28,900.00	12	0.347
4.10) 24X, TRUCK VAN 15 PASSENGER AWD ^(†)	A		-	-	-	-	-	-	28,000.00	1	0.028	28,560.00	6	0.171	-	-	-	28,560.00	6	0.171
4.11) SPORT UTILITY VEHICLE 4X2 ^(†)	A		-	-	-	41,000.00	2	0.082	-	-	-	42,656.00	4	0.171	-	-	-	42,656.00	4	0.171
4.12) SPORT UTILITY VEHICLE 4X2 COMPACT TO 5400 GVWR ^(†)	A		-	-	-	-	-	-	22,000.00	10	0.220	-	-	-	-	-	-	-	-	-
4.13) SPORT UTILITY VEHICLE 4X2 LARGE 8501 GVWR AND UP (CLASS IV) ^(†)	A		-	-	-	-	-	-	30,500.00	10	0.305	31,110.00	6	0.187	-	-	-	31,110.00	6	0.187
4.14) SPORT UTILITY VEHICLE 4X2 MIDSIZE 5401-6799 GVWR (CLASS III) ^(†)	A		-	-	-	-	-	-	-	-	-	25,000.00	2	0.050	-	-	-	25,000.00	2	0.050
4.16) SPORT UTILITY VEHICLE 4X4 ^(†)	A		-	-	-	36,250.00	11	0.399	36,975.00	21	0.776	-	-	-	-	-	-	-	-	-
4.17) SPORT UTILITY VEHICLE 4X4 LARGE 8501 GVWR AND UP (CLASS IV) ^(†)	A		31,000.00	1	0.031	-	-	-	32,000.00	10	0.320	-	-	-	-	-	-	-	-	-
4.18) SPORT UTILITY VEHICLE 4X4 MIDSIZE 5401-6799 GVWR (CLASS III) ^(†)	A		-	-	-	28,000.00	6	0.168	28,560.00	3	0.086	-	-	-	-	-	-	-	-	-
4.19) SPORT UTILITY VEHICLE 4X4 RHD ^(†)	A		-	-	-	48,000.00	4	0.192	48,960.00	5	0.245	-	-	-	-	-	-	-	-	-
4.20) SPORT UTILITY VEHICLE 4X4 TO 8500 GVWR LAW ENFORCEMENT ^(†)	A		-	-	-	31,895.00	7	0.223	32,000.00	6	0.192	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy																Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles								Aggregated Items Title: Passenger Carrying Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)	
4.21) TRUCK UTILITY COMM 4X4 4500 GVW (AFV) ^(†)	A		40,928.57	14	0.573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.22) TRUCK UTILITY COMM 4 DOOR 5 PASSENGER (AFV) ^(†)	A		48,526.32	19	0.922	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.23) TRUCK UTILITY COMM 4500 GVW (AFV) ^(†)	A		31,272.73	11	0.344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.24) TRUCK UTILITY COMM 4X4 4500 GVW RHD JAPAN ^(†)	A		28,214.29	14	0.395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.25) TRUCK UTILITY COMMERCIAL 4X4 4 DOOR (AFV) ^(†)	A		63,200.00	15	0.948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.27) TRUCK VAN COMPACT F/C 7 PASSENGER 4200 GVW (AFV) ^(†)	A		24,722.22	18	0.445	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.28) TRUCK VAN COMPACT FORWARD CONTROL 7 PASSENGER 4X2 6000 GVWR ^(†)	A		-	-	-	26,000.00	5	0.130	-	-	-	28,050.00	4	0.112	-	-	-	28,050.00	4	0.112	
4.29) TRUCK VAN F/ C 12 PASSENGER 8500 GVW (AFV) ^(†)	A		19,894.74	19	0.378	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.30) TRUCK VAN F/ C 12 PASSENGER 8600 GVW AC ^(†)	A		-	-	-	30,000.00	5	0.150	-	-	-	-	-	-	-	-	-	-	-	-	
4.32) TRUCK VAN F/ C 15 PASSENGER 8500 GVW (AFV) ^(†)	A		27,157.89	19	0.516	-	-	-	28,854.00	23	0.664	-	-	-	-	-	-	-	-	-	
4.33) TRUCK VAN F/C 8 PASSENGER 6000 GVW (AFV) ^(†)	A		21,444.44	18	0.386	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.34) TRUCK VAN F/C 8 PASSENGER RIGHT HAND DRIVE ^(†)	A		29,000.00	14	0.406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.35) TRUCK VAN FORWARD CONTROL 12	A		-	-	-	24,000.00	4	0.096	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles							Aggregated Items Title: Passenger Carrying Vehicles				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
PASSENGER 4X2 8501 AND UP GVWR ^(†)																				
4.37) TRUCK VAN FORWARD CONTROL 4X2 NONSTANDARD ^(†)	A		-	-	-	40,402.00	2	0.081	-	-	-	-	-	-	-	-	-	-	-	-
4.38) TRUCK VAN FORWARD CONTROL 8 PASSENGER 4X2 TO 8500 GVWR ^(†)	A		-	-	-	21,500.00	6	0.129	21,930.00	2	0.044	22,369.00	4	0.089	-	-	-	22,369.00	4	0.089
4.39) TRUCK VAN FORWARD CONTROL 8-12 PASSENGER ^(†)	A		-	-	-	-	-	-	-	-	-	41,000.00	3	0.123	-	-	-	41,000.00	3	0.123
4.40) TRUCK VAN FORWARD CONTROL 8-12 PASSENGER 4X2 ^(†)	A		-	-	-	-	-	-	50,000.00	3	0.150	52,100.00	2	0.104	-	-	-	52,100.00	2	0.104
4.41) TRUCK VAN FORWARD CONTROL 8-12 PASSENGER RHD ^(†)	A		-	-	-	28,000.00	14	0.392	-	-	-	29,231.00	8	0.234	-	-	-	29,231.00	8	0.234
Subtotal: 4) Utility and Carryall Trucks			-	-	5.344	-	-	3.149	-	-	3.766	-	-	2.574	-	-	-	-	-	2.574
5) Support Costs																				
5.1) ILS Support Cost	A		-	-	0.018	-	-	0.016	-	-	0.017	-	-	0.001	-	-	0.007	-	-	0.008
Subtotal: 5) Support Costs			-	-	0.018	-	-	0.016	-	-	0.017	-	-	0.001	-	-	0.007	-	-	0.008
Total			-	-	11.514	-	-	5.299	-	-	5.037	-	-	4.562	-	-	0.173	-	-	4.735

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 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles					Aggregated Items: Passenger Carrying Vehicles			
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) Buses												
1.1) 332A 44 PASSENGER CARRYING BUS		2018	Kyouei Jiko / Edogawa-Ku, Japan	C / FP	FEAD Yokosuka	Jul 2018	Jan 2019	4	119,107.00	Y		
1.1) 332A 44 PASSENGER CARRYING BUS		2019	UNKNOWN / UNKNOWN	TBD	FEAD Yokosuka	Sep 2019	Mar 2020	3	121,489.00	Y		
1.1) 332A 44 PASSENGER CARRYING BUS		2020	UNKNOWN / UNKNOWN	TBD	FEAD Yokosuka	Sep 2020	Mar 2021	6	123,919.00	Y		
1.3) BUS BOC 20 PASSENGER RHD		2020	UNKNOWN / UNKNOWN	C / FP	FEAD Yokosuka	Oct 2019	Oct 2019	1	76,000.00	Y		
1.4) BUS BOC 25 PASSENGER RHD		2018	Nissan Motor Sales Co., LTD / Minato-Ku	C / FP	FEAD Yokosuka	Feb 2019	Aug 2019	1	62,000.00	Y		
1.4) BUS BOC 25 PASSENGER RHD		2019	UNKNOWN / UNKNOWN	C / TBD	FEAD Yokosuka	May 2019	May 2019	1	63,240.00	Y		
1.4) BUS BOC 25 PASSENGER RHD		2020	UNKNOWN / UNKNOWN	C / TBD	FEAD Yokosuka	Mar 2020	Mar 2020	1	64,505.00	Y		
1.5) BUS MOTOR BOC 36 PASSENGER 4X2 DED AUTOMATIC		2016	BLUE BIRD / FORT VALLEY, GA	MIPR	GSA	Aug 2016	Oct 2016	1	126,000.00	Y		
1.6) BUS MOTOR BOC 36 PASSENGER 4X2 DED AUTOMATIC (AFV)		2016	VARIOUS / VARIOUS	MIPR	GSA	Sep 2018	Mar 2019	2	115,688.00	Y		
1.6) BUS MOTOR BOC 36 PASSENGER 4X2 DED AUTOMATIC (AFV)		2017	BLUE BIRD / FORT VALLEY, GA	MIPR	GSA	Sep 2018	Mar 2019	9	116,886.00	Y		
1.6) BUS MOTOR BOC 36 PASSENGER 4X2 DED AUTOMATIC (AFV)		2020	Unknown / Unknown	MIPR	GSA	Oct 2019	Oct 2019	2	124,039.00	Y		
2) Automobiles												
2.1) SEDAN AUTO		2018	Nissan Motor Sales Co., LTD / Minato-Ku	MIPR	GSA	Dec 2018	Jun 2019	11	37,240.00	Y		
2.1) SEDAN AUTO		2019	UNKNOWN / UNKNOWN	C / TBD	GSA	Jul 2019	Jul 2019	11	37,866.00	Y		
2.2) SEDAN COMPACT 5 PASSENGER 4 DOOR (AFV)		2016	RP AUTOMOTIVE/WEST COVINA, CA / Unknown	MIPR	GSA	Aug 2016	Feb 2017	3	35,873.00	Y		
2.2) SEDAN COMPACT 5 PASSENGER 4 DOOR (AFV)		2017	RP AUTOMOTIVE/WEST COVINA, CA / Unknown	MIPR	GSA	Mar 2017	Sep 2017	12	36,467.00	Y		
2.3) SEDAN COMPACT 5 PASSENGER 4 DOOR AC		2018	Nissan Motor Sales Co., LTD / Minato-Ku	MIPR	GSA	Dec 2018	Jun 2019	16	22,350.00	Y		
2.3) SEDAN COMPACT 5 PASSENGER 4 DOOR AC		2019	Unknown / Unknown	MIPR	GSA	Jun 2019	Jun 2019	6	22,950.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles						Aggregated Items: Passenger Carrying Vehicles			
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
2.4) SEDAN COMPACT 5 PASSENGER 4 DOOR RHD		2018	Nissan Motor Sales Co., LTD / Minato-Ku	MIPR	GSA	Dec 2018	Jun 2019	4	32,000.00	Y		
2.4) SEDAN COMPACT 5 PASSENGER 4 DOOR RHD		2019	Unknown / Unknown	MIPR	GSA	Jun 2019	Jun 2019	2	32,640.00	Y		
2.4) SEDAN COMPACT 5 PASSENGER 4 DOOR RHD		2020	Unknown / Unknown	MIPR	GSA	Oct 2019	Oct 2019	7	33,193.00	Y		
2.4) SEDAN COMPACT 5 PASSENGER 4 DOOR RHD	✓	2020	Unknown / Unknown	MIPR	GSA	Oct 2019	Oct 2019	5	33,193.00	Y		
2.5) SEDAN COMPACT FOREIGN		2016	Okinawa Mazda / Unknown	C / FP	FEAD Yokosuka	Sep 2016	Mar 2017	3	27,496.00	Y		
2.5) SEDAN COMPACT FOREIGN		2017	Okinawa Mazda / Unknown	C / FP	FEAD Yokosuka	Mar 2017	Sep 2017	10	28,033.00	Y		
2.6) SEDAN MIDSIZE (SURVEILLANCE), 5 PASS 4 DOOR UNMARKED RHD		2020	UNKNOWN / UNKNOWN	C / FP	FEAD Yokosuka	Dec 2019	Dec 2019	2	40,000.00	Y		
2.7) SEDAN MIDSIZE 5 PASSENGER 4 DOOR RHD		2020	Unknown / Unknown	MIPR	GSA	Mar 2020	Dec 2020	3	35,000.00	Y		
3) Ambulances												
3.1) AMBULANCE BUS CONV FC 8-12L R/LOAD NONSTANDARD RHD		2019	Unknown / Unknown	C / TBD	FEAD Yokosuka	May 2019	May 2020	1	64,000.00	Y		
3.2) TRUCK AMB VAN CONV 4X2 2 LITTER RHD JAPAN		2018	Futurebud Intl / Chuo-Ku, Japan	C / FP	FEAD Yokosuka	Jul 2018	Jan 2019	9	70,000.00	Y		
3.2) TRUCK AMB VAN CONV 4X2 2 LITTER RHD JAPAN		2019	Unknown / Unknown	TBD	FEAD Yokosuka	Jun 2019	Jun 2019	2	71,400.00	Y		
3.2) TRUCK AMB VAN CONV 4X2 2 LITTER RHD JAPAN		2020	Unknown / Unknown	TBD	FEAD Yokosuka	Oct 2019	Oct 2019	6	72,828.00	Y		
3.3) TRUCK AMBULANCE FIELD COM 4 LITTER 4X4 RIGHT HAND DRIVE		2016	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Sep 2016	Mar 2017	2	85,912.00	Y		
3.3) TRUCK AMBULANCE FIELD COM 4 LITTER 4X4 RIGHT HAND DRIVE		2017	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Sep 2018	Mar 2019	9	85,988.00	Y		
3.4) TRUCK AMBULANCE FIELD COM 4X4 DED	✓	2016	REV Ambulance Group / Orlando, FL	MIPR	GSA	Sep 2018	May 2019	2	93,081.00	Y		
3.4) TRUCK AMBULANCE FIELD COM 4X4 DED		2017	REV Ambulance Group / Orlando, FL	MIPR	GSA	Sep 2018	Sep 2018	2	94,943.00	Y		
3.5) TRUCK AMBULANCE MODULAR BODY 4X4 2 LITTER (AFV)		2016	REV Ambulance Group / Orlando, FL	MIPR	GSA	Sep 2018	Mar 2019	2	114,326.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles					Aggregated Items: Passenger Carrying Vehicles				
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
3.5) TRUCK AMBULANCE MODULAR BODY 4X4 2 LITTER (AFV)		2017	REV Ambulance Group / Orlando, FL	MIPR	GSA	Sep 2018	Mar 2019	8	114,840.00	Y		
3.6) TRUCK AMBULANCE TYPE 1 CONV CAB-CHASSIS NARROW MODULAR BODY NONSTANDARD		2018	REV Ambulance Group / Orlando, FL	MIPR	GSA	Aug 2018	Feb 2019	1	70,000.00	Y		
3.7) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER (AFV)		2016	Wheeled Coach Ind. Inc. / Winter Park, FL	MIPR	GSA	Jul 2017	Sep 2018	2	63,735.00	Y		
3.7) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER (AFV)		2017	Wheeled Coach Ind. Inc. / Winter Park, FL	MIPR	GSA	Sep 2018	Nov 2019	9	64,960.00	Y		
3.8) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER RIGHT HAND DRIVE		2016	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Aug 2016	Feb 2017	1	64,179.00	Y		
3.8) TRUCK AMBULANCE VAN CONVERSION COM 2 LITTER RIGHT HAND DRIVE		2017	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Mar 2017	Sep 2017	9	65,413.00	Y		
4) Utility and Carryall Trucks												
4.2) 105A, SPORT UTILITY VEHICLE 4X4 MIDSIZE		2018	KIG Vehicle Concepts / Arlington, VA	MIPR	GSA	Sep 2018	Mar 2019	7	28,210.00	Y		
4.2) 105A, SPORT UTILITY VEHICLE 4X4 MIDSIZE		2020	Unknown / Unknown	C / TBD	GSA	Oct 2019	Oct 2019	7	29,350.00	Y		
4.3) 105B, SPORT UTILITY VEHICLE 4X4 MIDSIZE		2018	KIG Vehicle Concepts / Arlington, VA	MIPR	GSA	Sep 2018	Mar 2019	5	34,040.00	Y		
4.3) 105B, SPORT UTILITY VEHICLE 4X4 MIDSIZE		2019	UNKNOWN / UNKNOWN	C / TBD	GSA	Jun 2019	Jun 2019	10	34,721.00	Y		
4.3) 105B, SPORT UTILITY VEHICLE 4X4 MIDSIZE		2020	UNKNOWN / UNKNOWN	C / TBD	GSA	Oct 2019	Oct 2019	14	34,915.00	Y		
4.4) 106, SPORT UTILITY VEHICLE 4X4		2018	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	MIPR	GSA	Feb 2019	Aug 2019	8	35,218.00	Y		
4.4) 106, SPORT UTILITY VEHICLE 4X4		2019	Unknown / Unknown	MIPR	GSA	Jun 2019	Jun 2019	3	35,922.00	Y		
4.4) 106, SPORT UTILITY VEHICLE 4X4	✓	2019	Unknown / Unknown	MIPR	GSA	Jun 2019	Jun 2019	2	35,922.00	Y		
4.8) 24, TRUCK VAN 15 PASSENGER 4X2		2018	Nissan Motor Sales Co., LTD / Minato-Ku	MIPR	GSA	Dec 2018	Jun 2019	18	25,457.00	Y		
4.8) 24, TRUCK VAN 15 PASSENGER 4X2		2019	Unknown / Unknown	MIPR	GSA	Jun 2019	Jun 2019	8	26,119.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles				Aggregated Items: Passenger Carrying Vehicles				
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
4.8) 24, TRUCK VAN 15 PASSENGER 4X2		2020	Unknown / Unknown	MIPR	GSA	Oct 2019	Oct 2019	11	26,541.00	Y		
4.9) 24, TRUCK VAN 7 PASSENGER 4X2		2020	UNKNOWN / UNKNOWN	MIPR	GSA	Oct 2019	Oct 2019	12	28,900.00	Y		
4.10) 24X, TRUCK VAN 15 PASSENGER AWD		2019	Unknown / Unknown	MIPR	GSA	Apr 2019	Apr 2020	1	28,000.00	Y		
4.10) 24X, TRUCK VAN 15 PASSENGER AWD		2020	Unknown / Unknown	MIPR	GSA	Oct 2019	Oct 2019	6	28,560.00	Y		
4.11) SPORT UTILITY VEHICLE 4X2		2018	KIG Vehicle Concepts / Arlington, VA	MIPR	GSA	Dec 2018	Jun 2019	2	41,000.00	Y		
4.11) SPORT UTILITY VEHICLE 4X2		2020	Unknown / Unknown	MIPR	Various	Feb 2020	Feb 2020	4	42,656.00	Y		
4.12) SPORT UTILITY VEHICLE 4X2 COMPACT TO 5400 GVWR		2019	Unknown / Unknown	MIPR	GSA	Apr 2019	Apr 2020	10	22,000.00	Y		
4.13) SPORT UTILITY VEHICLE 4X2 LARGE 8501 GVWR AND UP (CLASS IV)		2019	Unknown / Unknown	MIPR	GSA	May 2019	May 2020	10	30,500.00	Y		
4.13) SPORT UTILITY VEHICLE 4X2 LARGE 8501 GVWR AND UP (CLASS IV)		2020	Unknown / Unknown	MIPR	GSA	Oct 2019	Oct 2019	6	31,110.00	Y		
4.14) SPORT UTILITY VEHICLE 4X2 MIDSIZE 5401-6799 GVWR (CLASS III)		2020	UNKNOWN / UNKNOWN	MIPR	GSA	Feb 2020	Feb 2020	2	25,000.00	Y		
4.16) SPORT UTILITY VEHICLE 4X4		2018	UNKNOWN / UNKNOWN	MIPR	Various	Feb 2019	Aug 2019	11	36,250.00	Y		
4.16) SPORT UTILITY VEHICLE 4X4		2019	UNKNOWN / UNKNOWN	MIPR	Various	Jun 2019	Jun 2019	21	36,975.00	Y		
4.17) SPORT UTILITY VEHICLE 4X4 LARGE 8501 GVWR AND UP (CLASS IV)		2017	Ford Motor Company / Dearborn, MI	MIPR	GSA	Nov 2016	Feb 2017	1	30,733.00	Y		
4.17) SPORT UTILITY VEHICLE 4X4 LARGE 8501 GVWR AND UP (CLASS IV)		2019	Ford Motor Company / Dearborn, MI	MIPR	GSA	Jan 2019	Apr 2019	10	32,000.00	Y		
4.18) SPORT UTILITY VEHICLE 4X4 MIDSIZE 5401-6799 GVWR (CLASS III)		2018	TOYOTA MOTOR CO / California	MIPR	GSA	Feb 2019	Aug 2019	6	28,000.00	Y		
4.18) SPORT UTILITY VEHICLE 4X4 MIDSIZE 5401-6799 GVWR (CLASS III)		2019	UNKNOWN / UNKNOWN	MIPR	Various	Jun 2019	Jun 2019	3	28,560.00	Y		
4.19) SPORT UTILITY VEHICLE 4X4 RHD		2018	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Sep 2018	Mar 2019	4	48,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles					Aggregated Items: Passenger Carrying Vehicles				
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
4.19) SPORT UTILITY VEHICLE 4X4 RHD		2019	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Jan 2019	Jan 2019	3	48,960.00	Y		
4.19) SPORT UTILITY VEHICLE 4X4 RHD	✓	2019	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Jan 2019	Jan 2019	2	48,960.00	Y		
4.20) SPORT UTILITY VEHICLE 4X4 TO 8500 GVWR LAW ENFORCEMENT		2018	DRAGON SERVICE AUSTRALIA PTY LTD / WOOLNER, AUSTRALIA	MIPR	GSA	Sep 2018	Mar 2019	7	31,895.00	Y		
4.20) SPORT UTILITY VEHICLE 4X4 TO 8500 GVWR LAW ENFORCEMENT		2019	Unknown / Unknown	C / TBD	GSA	Jun 2019	Jun 2019	6	32,000.00	Y		
4.21) TRUCK UTILITY COMM 4X4 4500 GVW (AFV)		2016	VARIOUS / VARIOUS	MIPR	GSA	Sep 2018	Mar 2019	3	40,249.00	Y		
4.21) TRUCK UTILITY COMM 4X4 4500 GVW (AFV)		2017	VARIOUS / VARIOUS	MIPR	GSA	Sep 2018	Mar 2019	11	41,096.00	Y		
4.22) TRUCK UTILITY COMM 4 DOOR 5 PASSENGER (AFV)		2016	GM MOTORS / Detroit, MI	MIPR	GSA	Sep 2016	Mar 2017	3	47,753.00	Y		
4.22) TRUCK UTILITY COMM 4 DOOR 5 PASSENGER (AFV)		2017	GM MOTORS / Detroit, MI	MIPR	GSA	Mar 2017	Sep 2017	16	48,698.00	Y		
4.23) TRUCK UTILITY COMM 4500 GVW (AFV)		2016	VARIOUS / VARIOUS	MIPR	GSA	Sep 2018	Mar 2019	1	30,684.00	Y		
4.23) TRUCK UTILITY COMM 4500 GVW (AFV)		2017	VARIOUS / VARIOUS	MIPR	GSA	Sep 2018	Mar 2019	10	31,322.00	Y		
4.24) TRUCK UTILITY COMM 4X4 4500 GVW RHD JAPAN		2016	GLOBAL FLEET SALES / Unknown	C / FP	FEAD Yokosuka	Aug 2016	Feb 2017	4	27,787.00	Y		
4.24) TRUCK UTILITY COMM 4X4 4500 GVW RHD JAPAN		2017	GLOBAL FLEET SALES / Unknown	C / FP	FEAD Yokosuka	Mar 2017	Sep 2017	10	28,401.00	Y		
4.25) TRUCK UTILITY COMMERCIAL 4X4 4 DOOR (AFV)		2016	VARIOUS / VARIOUS	MIPR	GSA	Sep 2018	Mar 2019	4	62,327.00	Y		
4.25) TRUCK UTILITY COMMERCIAL 4X4 4 DOOR (AFV)		2017	VARIOUS / VARIOUS	MIPR	GSA	Sep 2018	Mar 2019	11	63,511.00	Y		
4.27) TRUCK VAN COMPACT F/C 7 PASSENGER 4200 GVW (AFV)		2016	Chrysler Group / Auburn Hill, MI	MIPR	GSA	Mar 2016	Sep 2016	4	24,336.00	Y		
4.27) TRUCK VAN COMPACT F/C 7 PASSENGER 4200 GVW (AFV)		2017	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Aug 2017	Feb 2018	14	24,853.00	Y		
4.28) TRUCK VAN COMPACT FORWARD CONTROL 7 PASSENGER 4X2 6000 GVWR		2018	TOYOTA MOTOR CO / California	MIPR	GSA	Dec 2018	Jun 2019	5	26,000.00	Y		
4.28) TRUCK VAN COMPACT FORWARD CONTROL 7 PASSENGER 4X2 6000 GVWR		2020	Unknown / Unknown	MIPR	Various	Oct 2019	Oct 2019	4	28,050.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles				Aggregated Items: Passenger Carrying Vehicles				
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
4.29) TRUCK VAN F/C 12 PASSENGER 8500 GVW (AFV)		2016	GM MOTORS / Detroit, MI	MIPR	GSA	Mar 2017	Jul 2017	4	19,620.00	Y		
4.29) TRUCK VAN F/C 12 PASSENGER 8500 GVW (AFV)		2017	GM MOTORS / Detroit, MI	MIPR	GSA	Sep 2018	Jan 2019	15	19,993.00	Y		
4.30) TRUCK VAN F/C 12 PASSENGER 8600 GVW AC		2018	Unknown / Unknown	MIPR	Various	Feb 2019	Aug 2019	5	30,000.00	Y		
4.32) TRUCK VAN F/C 15 PASSENGER 8500 GVW (AFV)		2016	Carter Chevrolet / Okarche, OK	MIPR	GSA	Mar 2016	Oct 2016	4	26,030.00	Y		
4.32) TRUCK VAN F/C 15 PASSENGER 8500 GVW (AFV)		2017	Carter Chevrolet / Okarche, OK	MIPR	GSA	Sep 2018	Apr 2019	15	27,434.00	Y		
4.32) TRUCK VAN F/C 15 PASSENGER 8500 GVW (AFV)		2019	Unknown / Unknown	MIPR	GSA	Jun 2019	Jun 2019	23	28,854.00	Y		
4.33) TRUCK VAN F/C 8 PASSENGER 6000 GVW (AFV)		2016	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	Various	Various	Sep 2017	Mar 2018	4	21,098.00	Y		
4.33) TRUCK VAN F/C 8 PASSENGER 6000 GVW (AFV)		2017	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	Various	Various	Sep 2017	Mar 2018	14	21,567.00	Y		
4.34) TRUCK VAN F/C 8 PASSENGER RIGHT HAND DRIVE		2016	NEW INDUSTRIAL TECH DEVELOPMENT / MACHIDA, JAPAN	C / FP	Various	Jun 2016	Dec 2016	3	28,539.00	Y		
4.34) TRUCK VAN F/C 8 PASSENGER RIGHT HAND DRIVE		2017	Nissan Motor Sales Co., LTD / Minato-Ku	C / FP	Various	Jun 2017	Dec 2017	11	29,112.00	Y		
4.35) TRUCK VAN FORWARD CONTROL 12 PASSENGER 4X2 8501 AND UP GVWR		2018	Unknown / Unknown	MIPR	GSA	Feb 2019	Aug 2019	4	24,000.00	Y		
4.37) TRUCK VAN FORWARD CONTROL 4X2 NONSTANDARD		2018	Unknown / Unknown	MIPR	GSA	Feb 2019	Aug 2019	2	40,402.00	Y		
4.38) TRUCK VAN FORWARD CONTROL 8 PASSENGER 4X2 TO 8500 GVWR		2018	Nissan Motor Sales Co., LTD / Minato-Ku	C / FP	FEAD Yokosuka	Dec 2018	Jun 2019	6	21,500.00	Y		
4.38) TRUCK VAN FORWARD CONTROL 8 PASSENGER 4X2 TO 8500 GVWR		2019	Unknown / Unknown	C / FP	FEAD Yokosuka	Jun 2019	Jun 2019	2	21,930.00	Y		
4.38) TRUCK VAN FORWARD CONTROL 8 PASSENGER 4X2 TO 8500 GVWR		2020	Unknown / Unknown	C / FP	FEAD Yokosuka	Oct 2019	Oct 2019	4	22,369.00	Y		
4.39) TRUCK VAN FORWARD CONTROL 8-12 PASSENGER		2020	UNKNOWN / UNKNOWN	MIPR	GSA	Oct 2019	Oct 2019	3	41,000.00	Y		
4.40) TRUCK VAN FORWARD CONTROL 8-12 PASSENGER 4X2		2019	Unknown / Unknown	C / FP	FEAD Yokosuka	Apr 2019	Apr 2020	3	50,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6003 / Passenger Carrying Vehicles					Aggregated Items: Passenger Carrying Vehicles			
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
4.40) TRUCK VAN FORWARD CONTROL 8-12 PASSENGER 4X2		2020	Unknown / Unknown	C / FP	FEAD Yokosuka	Oct 2019	Oct 2019	2	52,100.00	Y		
4.41) TRUCK VAN FORWARD CONTROL 8-12 PASSENGER RHD		2018	Nissan Motor Sales Co., LTD / Minato-Ku	MIPR	FEAD Yokosuka	Feb 2019	Aug 2019	14	28,000.00	Y		
4.41) TRUCK VAN FORWARD CONTROL 8-12 PASSENGER RHD		2020	Unknown / Unknown	MIPR	FEAD Yokosuka	Feb 2020	Feb 2020	8	29,231.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment	P-1 Line Item Number / Title: 6007 / General Purpose Trucks

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	7.287	3.451	3.074	10.974	0.408	11.382	11.270	10.851	11.067	11.288	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	7.287	3.451	3.074	10.974	0.408	11.382	11.270	10.851	11.067	11.288	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	7.287	3.451	3.074	10.974	0.408	11.382	11.270	10.851	11.067	11.288	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 budget line item procures various sizes of utility and cargo trucks of commercial design.

Cargo pickup trucks are used to transport personnel and equipment in support of fleet operations where such mobility is necessary to support the mission. The maintenance/utility trucks are used to transport tools/materials necessary for maintenance personnel performing facility maintenance. Panel and multi-stop trucks are used primarily for the movement of material/equipment requiring protection in an enclosed van-type body and freight trucks are used to move palletized material from warehouses to users.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6007 / General Purpose Trucks				
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	General Purpose Trucks	P-5a			- / 7.287	- / 3.451	- / 3.074	- / 10.974	- / 0.410	- / 11.384
P-40	Total Gross/Weapon System Cost				- / 7.287	- / 3.451	- / 3.074	- / 10.974	- / 0.408	- / 11.382
*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: \$7.117 million of the budget increase from FY2019 to FY2020 is due to a realignment of funding supports the transition of Facilities Engineering Command (FEC) from Navy Working Capital Fund (NWCF) to General Funding. As a general fund activity, FEC will be mission funded within Commander, Navy Installations Command (CNIC) to provide similar services to those that were previously purchased by customers. The funds requested in FY 2020 will provide for recapitalization requirements to support fielding a fleet of equipment within useful life expectancy. OCO: Included in this request is FY 2020 Overseas Contingency Operations (OCO) funding for Operation Enduring Freedom - Horn of Africa (OEF-H) in the amount of \$0.408M for Camp Lemonnier, Djibouti. Funds requested are for replacement of general purpose trucks at a core installation that provides key logistics services supporting ship and aircraft movements and command and control services for the warfighter in support of Overseas Contingency Operations. The life expectancy of the cargo trucks being replaced is 6-7 years and the average age is 16 years. Replacing inventory will minimize mission impact by moving towards equipment standardization of parts-stocking, minimize maintenance downtime waiting on parts from the states, and eliminate the need for costly commercial leasing to meet mission requirements. Cargo Trucks, QTY=12, \$0.408M										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6007 / General Purpose Trucks								Aggregated Items Title: General Purpose Trucks					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) Utility Trucks																				
1.1) ILS for UTILITY TRUCKS	A		-	-	0.008	-	-	0.028	-	-	-	-	-	-	-	-	-	-	-	-
1.2) TRUCK, UTILITY GROUNDS MAINTENANCE, 6X4, DED ^(†)	A		19,083.33	24	0.458	19,624.00	20	0.392	19,735.00	12	0.237	20,236.00	10	0.202	-	-	-	20,236.00	10	0.202
Subtotal: 1) Utility Trucks			-	-	0.466	-	-	0.420	-	-	0.237	-	-	0.202	-	-	-	-	-	0.202
2) Cargo Trucks																				
2.1) 129F, TRUCK STAKE 8501 AND UP GVWR CREW CAB 4X4 ^(†)	A		-	-	-	53,743.00	8	0.430	54,818.00	7	0.384	55,914.00	12	0.671	55,914.00	7	0.391	55,914.00	19	1.062
2.2) 34X, TRUCK CARGO 4X4 8501 AND UP GVWR ^(†)	A		-	-	-	40,995.00	5	0.205	41,815.00	8	0.335	-	-	-	-	-	-	-	-	-
2.4) 49B, TRUCK CARGO PICKUP 4X4 8501 GVWR AND UP 8 FT BED CREW CAB ^(†)	A		-	-	-	23,537.00	4	0.094	24,008.00	17	0.408	24,488.00	21	0.514	-	-	-	24,488.00	21	0.514
2.5) 49B, TRUCK CARGO PICKUP 4X4 8501 GVWR CREW CAB ^(†)	A		-	-	-	-	-	-	23,528.00	9	0.212	23,999.00	20	0.480	-	-	-	23,999.00	20	0.480
2.7) 55, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB ^(†)	A		-	-	-	23,421.00	5	0.117	23,889.00	8	0.191	24,367.00	20	0.487	-	-	-	24,367.00	20	0.487
2.8) 55C, TRUCK CARGO PICKUP 4X4 5800 GVWR COMPACT ^(†)	A		-	-	-	23,005.00	6	0.138	-	-	-	-	-	-	-	-	-	-	-	-
2.9) 57A, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB ^(†)	A		-	-	-	28,197.00	38	1.071	28,761.00	26	0.748	29,236.00	40	1.169	-	-	-	29,236.00	40	1.169
2.10) CARGO TRUCK ^(†)	A		-	-	-	27,857.00	14	0.390	-	-	-	-	-	-	-	-	-	-	-	-
2.11) ILS for CARGO TRUCKS	A		-	-	-	-	-	0.010	-	-	0.008	-	-	0.158	-	-	-	-	-	0.158
2.12) TRK MAINT UTIL 0722 ^(†)	A		34,714.29	7	0.243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6007 / General Purpose Trucks								Aggregated Items Title: General Purpose Trucks					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
2.13) TRK WRECKER ^(†)	A		92,666.67	3	0.278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.15) TRUCK CARGO PICKUP 4 DOOR 4X4 9200 GVW ^(†)	A		34,444.44	9	0.310	-	-	-	36,363.64	11	0.400	-	-	-	-	-	-	-	-	-
2.16) TRUCK CARGO PICKUP 4 DR 8800 GVW ^(†)	A		29,916.67	12	0.359	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.17) TRUCK CARGO PICKUP 4 DR 9000 GVW W/WINCH ^(†)	A		30,428.57	7	0.213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.18) TRUCK CARGO PICKUP 4400 GVW 4X4 COMPACT RIGHT HAND DRIVE ^(†)	A		24,454.55	11	0.269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.19) TRUCK CARGO PICKUP COMPACT 4X2 4000 GVWR RHD ^(†)	A		-	-	-	-	-	-	-	-	-	12,000.00	17	0.204	-	-	-	12,000.00	17	0.204
2.21) TRUCK CARGO PICKUP COMPACT 4X4 MIN 5050 GVWR AC CREW CAB ^(†)	A		-	-	-	36,000.00	16	0.576	-	-	-	-	-	-	-	-	-	-	-	-
2.22) TRUCK MAINTENANCE 10 TON W/800GAL FUEL STORAGE ^(†)	A		154,428.57	7	1.081	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.23) TRUCK MULTISTOP DELIVERY GED 14000GVW ^(†)	A		53,571.43	7	0.375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.24) TRUCK PANEL FORWARD CONTROL ^(†)	A		27,428.57	7	0.192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25) TRUCK PANEL FORWARD CONTROL 6000 GVWR RHD ^(†)	A		-	-	-	-	-	-	21,591.00	7	0.151	22,023.00	6	0.132	-	-	-	22,023.00	6	0.132
2.26) TRUCK PICK-UP CARGO 4X2 3800 GVW ^(†)	A		19,777.78	9	0.178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.27) TRUCK PICK-UP CARGO 4X2 5050 GVW ^(†)	A		20,181.82	11	0.222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6007 / General Purpose Trucks								Aggregated Items Title: General Purpose Trucks					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
2.28) TRUCK PICK-UP CARGO 4X2 6050 GVW ^(†)	A		21,727.27	11	0.239	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.29) TRUCK PICKUP CARGO 4X2 GED AUTOMATIC TRANSMISSION ^(†)	A		18,363.64	11	0.202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.30) TRUCK PICK-UP CARGO 8FT BED 6250 GVW ^(†)	A		27,600.00	5	0.138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.31) TRUCK STAKE 4X2 GED 25500 GVW ^(†)	A		86,875.00	8	0.695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.32) TRUCK STAKE 4X2 GED 43000 GVW ^(†)	A		89,333.33	6	0.536	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.33) TRUCK STAKE 4X2 GED 52000 GVW ^(†)	A		121,000.00	3	0.363	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.34) TRUCK STAKE 4X2 GED 8500 GVW ^(†)	A		27,428.57	7	0.192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.35) TRUCK STAKE 4X2 GED 8600 GVW ^(†)	A		25,375.00	8	0.203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.36) TRUCK SUV 4 DR 7000 GVW ^(†)	A		38,071.43	14	0.533	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.37) TRUCK, MULTI-STOP DELIVERY 14000 GVRW AND UP DUALLY ^{(1)(†)}	A		-	-	-	-	-	-	-	-	-	45,630.00	4	0.183	-	-	-	45,630.00	4	0.183
2.38) TRUCK CARGO PICK-UP 4X4 8501-9999 CREW CAB ^(†)	A		-	-	-	-	-	-	-	-	-	35,490.00	2	0.071	-	-	-	35,490.00	2	0.071
2.39) TRUCK CARGO PICKUP UP TO 8500 GVWR REGULAR CAB ^(†)	A		-	-	-	-	-	-	-	-	-	19,418.00	11	0.214	-	-	-	19,418.00	11	0.214
2.40) TRUCK CARGO PICKUP 4X4 UP TO 8500 GVWR CREW CAB ^(†)	A		-	-	-	-	-	-	-	-	-	24,336.00	1	0.024	-	-	-	24,336.00	1	0.024
2.41) TRUCK CARGO PICKUP COMPACT	A		-	-	-	-	-	-	-	-	-	24,133.00	43	1.038	-	-	-	24,133.00	43	1.038

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6007 / General Purpose Trucks								Aggregated Items Title: General Purpose Trucks					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
4X2 UP TO 6100 GVWR EXTENDED CAB ^(†)																				
2.42) TRUCK CARGO PICKUP COMPACT 4X2 UP TO 6100 GVWR CREW CAB ^(†)	A		-	-	-	-	-	-	-	-	-	25,705.00	4	0.103	-	-	-	25,705.00	4	0.103
2.43) TRUCK CARGO PICKUP 4X2 8501-9999 GVWR CREW CAB ^(†)	A		-	-	-	-	-	-	-	-	-	25,857.00	17	0.440	-	-	-	25,857.00	17	0.440
2.44) TRUCK PANEL VAN 4X2 6001-8500 GVWR ^(†)	A		-	-	-	-	-	-	-	-	-	21,548.00	4	0.086	-	-	-	21,548.00	4	0.086
2.45) TRUCK PANEL VAN COMPACT 4X2 UP TO 6000 GVWR ^(†)	A		-	-	-	-	-	-	-	-	-	30,741.00	2	0.061	-	-	-	30,741.00	2	0.061
2.46) TRUCK STAKE 4X2 8501-16000 GVWR REGULAR CAB ^(†)	A		-	-	-	-	-	-	-	-	-	26,415.00	30	0.792	-	-	-	26,415.00	30	0.792
2.47) TRUCK MULTISTOP STEP VAN 8501-13999 GVWR ^(†)	A		-	-	-	-	-	-	-	-	-	41,270.00	10	0.413	-	-	-	41,270.00	10	0.413
2.48) TRUCK STAKE 4X2 8501-16000 GVWR REGULAR CAB DUALLY ^(†)	A		-	-	-	-	-	-	-	-	-	27,074.00	4	0.108	-	-	-	27,074.00	4	0.108
2.49) TRUCK VAN FORWARD CONTROL HI-CUBE 8501 GVWR AND UP ^(†)	A		-	-	-	-	-	-	-	-	-	41,574.00	6	0.249	-	-	-	41,574.00	6	0.249
2.50) TRUCK CARGO PICKUP COMPACT 4X4 REGULAR CAB RHD ^(†)	A		-	-	-	-	-	-	-	-	-	18,000.00	1	0.018	-	-	-	18,000.00	1	0.018
2.51) TRUCK PANEL MINI-COMPACT F/C GED JAPAN ^(†)	A		-	-	-	-	-	-	-	-	-	8,416.00	24	0.202	-	-	-	8,416.00	24	0.202
2.52) TRUCK PANEL F/C GED 6000 GVW JAPAN ^(†)	A		-	-	-	-	-	-	-	-	-	18,252.00	19	0.347	-	-	-	18,252.00	19	0.347

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6007 / General Purpose Trucks								Aggregated Items Title: General Purpose Trucks					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
2.53) TRUCK STAKE 8501 GVWR AND UP RHD ^(†)	A		-	-	-	-	-	-	-	-	-	34,983.00	4	0.140	-	-	-	34,983.00	4	0.140
2.54) TRUCK PANEL MINI-COMPACT F/C GED JAPAN / LOW SPEED VEHICLE 4 PASSENGER ^(†)	A		-	-	-	-	-	-	-	-	-	18,774.00	1	0.019	18,774.00	1	0.019	18,774.00	2	0.038
2.55) TRUCK CARGO PICKUP 9000 GVWR CREW CAB RHD ^(†)	A		-	-	-	-	-	-	-	-	-	27,378.00	31	0.849	-	-	-	27,378.00	31	0.849
2.56) TRUCK PANEL VAN MINI-COMPACT 4X4 RHD ^(†)	A		-	-	-	-	-	-	-	-	-	11,154.00	1	0.011	-	-	-	11,154.00	1	0.011
2.57) TRUCK PANEL VAN UP TO 8500 GVWR 4X4 RHD ^(†)	A		-	-	-	-	-	-	-	-	-	27,378.00	1	0.027	-	-	-	27,378.00	1	0.027
2.58) TRUCK CARGO PICKUP 4X4 9200 GVWR CREW CAB RHD ^(†)	A		-	-	-	-	-	-	-	-	-	39,543.00	4	0.158	-	-	-	39,543.00	4	0.158
2.59) TRUCK CARGO PICKUP COMP 4000 GVW JAPAN ^(†)	A		-	-	-	-	-	-	-	-	-	16,296.00	8	0.130	-	-	-	16,296.00	8	0.130
2.60) TRUCK STAKE 4X4 8501-16000 GVWR RHD ^(†)	A		-	-	-	-	-	-	-	-	-	36,504.00	2	0.073	-	-	-	36,504.00	2	0.073
2.61) TRUCK CARGO PICKUP COMPACT 4X4 UP TO 6100 GVWR CREW CAB ^(†)	A		-	-	-	-	-	-	-	-	-	38,532.00	25	0.963	-	-	-	38,532.00	25	0.963
2.62) TRUCK CARGO PICKUP COMPACT 4X2 5800 GVWR 4FT BED CREW CAB ^(†)	A		-	-	-	-	-	-	-	-	-	23,529.00	7	0.165	-	-	-	23,529.00	7	0.165
2.63) TRUCK STAKE 8501 GVWR AND UP 8 FT BED REG CAB 4X2 ^(†)	A		-	-	-	-	-	-	-	-	-	31,566.00	1	0.032	-	-	-	31,566.00	1	0.032
2.64) TRUCK MULTISTOP DELIVERY 14000 GVWR AND UP ^(†)	A		-	-	-	-	-	-	-	-	-	41,321.00	1	0.041	-	-	-	41,321.00	1	0.041
Subtotal: 2) Cargo Trucks			-	-	6.821	-	-	3.031	-	-	2.837	-	-	10.772	-	-	0.410	-	-	11.182
Total			-	-	7.287	-	-	3.451	-	-	3.074	-	-	10.974	-	-	0.410	-	-	11.384

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1	P-1 Line Item Number / Title: 6007 / General Purpose Trucks	Aggregated Items Title: General Purpose Trucks

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) Cost elements 2.37 thru 2.64 are items that were formerly procured via NWCF and have shifted to OPN.

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6007 / General Purpose Trucks						Aggregated Items: General Purpose Trucks			
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) Utility Trucks												
1.2) TRUCK, UTILITY GROUNDS MAINTENANCE, 6X4, DED		2016	John Deere / Cary, NC	MIPR	DLA	Mar 2016	Jun 2016	24	19,064.00	Y		
1.2) TRUCK, UTILITY GROUNDS MAINTENANCE, 6X4, DED		2018	DSCP / Philadelphia, PA	MIPR	GSA	Oct 2018	Mar 2019	15	19,624.00	Y		
1.2) TRUCK, UTILITY GROUNDS MAINTENANCE, 6X4, DED	✓	2018	DSCP / Philadelphia, PA	MIPR	GSA	Oct 2018	Mar 2019	5	19,624.00	Y		
1.2) TRUCK, UTILITY GROUNDS MAINTENANCE, 6X4, DED		2019	Unknown / Unknown	MIPR	GSA	Mar 2019	Mar 2019	12	19,735.00	Y		
1.2) TRUCK, UTILITY GROUNDS MAINTENANCE, 6X4, DED		2020	Unknown / Unknown	C / TBD	GSA	Oct 2019	Oct 2019	10	20,236.00	Y		
2) Cargo Trucks												
2.1) 129F, TRUCK STAKE 8501 AND UP GVWR CREW CAB 4X4		2018	JOHNSONS OF KINGFISHER / KINGFISHER, OK	MIPR	GSA	Mar 2018	Oct 2018	8	53,743.00	Y		
2.1) 129F, TRUCK STAKE 8501 AND UP GVWR CREW CAB 4X4		2019	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2019	Mar 2019	7	54,818.00	Y		
2.1) 129F, TRUCK STAKE 8501 AND UP GVWR CREW CAB 4X4		2020	UNKNOWN / UNKNOWN	MIPR	GSA	Oct 2019	Oct 2019	12	55,914.00	Y		
2.1) 129F, TRUCK STAKE 8501 AND UP GVWR CREW CAB 4X4	✓	2020	UNKNOWN / UNKNOWN	C / TBD	GSA	Oct 2019	Oct 2019	7	55,914.00	Y		
2.2) 34X, TRUCK CARGO 4X4 8501 AND UP GVWR		2018	Nissan Motor Sales Co., LTD / Minato-Ku	MIPR	GSA	Feb 2019	Aug 2019	5	40,995.00	Y		
2.2) 34X, TRUCK CARGO 4X4 8501 AND UP GVWR		2019	Nissan Motor Sales Co., LTD / Minato-Ku	MIPR	GSA	Jun 2019	Jun 2019	8	41,815.00	Y		
2.4) 49B, TRUCK CARGO PICKUP 4X4 8501 GVWR AND UP 8 FT BED CREW CAB		2018	Nissan Motor Sales Co., LTD / Minato-Ku	MIPR	GSA	Feb 2019	Aug 2019	4	23,537.00	Y		
2.4) 49B, TRUCK CARGO PICKUP 4X4 8501 GVWR AND UP 8 FT BED CREW CAB		2019	Nissan Motor Sales Co., LTD / Minato-Ku	MIPR	GSA	Jun 2019	Jun 2019	17	24,008.00	Y		
2.4) 49B, TRUCK CARGO PICKUP 4X4 8501 GVWR AND UP 8 FT BED CREW CAB		2020	Nissan Motor Sales Co., LTD / Minato-Ku	MIPR	GSA	Feb 2020	Feb 2020	21	24,488.00	Y		
2.5) 49B, TRUCK CARGO PICKUP 4X4 8501 GVWR CREW CAB		2019	Unknown / Unknown	MIPR	GSA	Jan 2019	Jan 2019	9	23,528.00	Y		
2.7) 55, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB		2018	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Nov 2018	May 2019	5	23,421.00	Y		
2.7) 55, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB		2019	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	May 2019	May 2019	8	23,889.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6007 / General Purpose Trucks				Aggregated Items: General Purpose Trucks				
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
2.7) 55, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB		2020	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Feb 2020	Feb 2020	20	24,367.00	Y		
2.8) 55C, TRUCK CARGO PICKUP 4X4 5800 GVWR COMPACT		2018	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Nov 2018	May 2019	6	23,005.00	Y		
2.9) 57A, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB		2018	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Mar 2018	Sep 2018	38	28,197.00	Y		
2.9) 57A, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB		2019	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Jan 2019	Jan 2019	26	28,761.00	Y		
2.9) 57A, TRUCK CARGO PICKUP 4X4 8501 GVWR UP CREW CAB		2020	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Oct 2019	Oct 2019	40	29,236.00	Y		
2.10) CARGO TRUCK	✓	2018	UNKNOWN / UNKNOWN	MIPR	GSA	Feb 2019	Aug 2019	14	27,857.00	Y		
2.12) TRK MAINT UTIL 0722		2016	JOHNSONS OF KINGFISHER/ KINGFISHER, OK / Unknown	MIPR	GSA	Aug 2016	Dec 2016	3	33,112.00	Y		
2.12) TRK MAINT UTIL 0722		2017	JOHNSONS OF KINGFISHER/ KINGFISHER, OK / Unknown	MIPR	GSA	Sep 2017	Jan 2018	4	35,924.00	Y		
2.13) TRK WRECKER		2017	JERR-DAN CORPORATION / Unknown	MIPR	GSA	Nov 2018	Mar 2019	3	92,666.67	Y		
2.15) TRUCK CARGO PICKUP 4 DOOR 4X4 9200 GVW		2016	GM MOTORS / Detroit, MI	MIPR	GSA	Mar 2016	Jul 2016	3	30,887.00	Y		
2.15) TRUCK CARGO PICKUP 4 DOOR 4X4 9200 GVW		2017	GM MOTORS / Detroit, MI	MIPR	GSA	Dec 2017	Apr 2018	6	36,124.00	Y		
2.15) TRUCK CARGO PICKUP 4 DOOR 4X4 9200 GVW	✓	2019	GM MOTORS / Detroit, MI	MIPR	GSA	Jan 2019	Jan 2019	11	36,363.64	Y		
2.16) TRUCK CARGO PICKUP 4 DR 8800 GVW		2016	Ford Motor Company / Dearborn, MI	MIPR	GSA	Mar 2016	Oct 2016	7	30,392.00	Y		
2.16) TRUCK CARGO PICKUP 4 DR 8800 GVW		2017	Ford Motor Company / Dearborn, MI	MIPR	GSA	Dec 2017	Jul 2018	5	29,289.00	Y		
2.17) TRUCK CARGO PICKUP 4 DR 9000 GVW W/WINCH		2017	VARIOUS / VARIOUS	MIPR	GSA	Oct 2018	Apr 2019	7	30,452.00	Y		
2.18) TRUCK CARGO PICKUP 4400 GVW 4X4 COMPACT RIGHT HAND DRIVE		2016	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Sep 2018	Mar 2019	4	23,658.00	Y		
2.18) TRUCK CARGO PICKUP 4400 GVW 4X4 COMPACT RIGHT HAND DRIVE		2017	TOYOTA MOTOR CO / Bunkyo-Ku, Japan	C / FP	FEAD Yokosuka	Sep 2018	Mar 2019	7	24,917.00	Y		
2.19) TRUCK CARGO PICKUP COMPACT 4X2 4000 GVWR RHD		2020	Unknown / Unknown	MIPR	FEAD Yokosuka	Mar 2020	Mar 2020	17	12,000.00	Y		
2.21) TRUCK CARGO PICKUP COMPACT 4X4 MIN 5050 GVWR AC CREW CAB		2018	GM Government Sales / Detroit, MI	MIPR	Various	Oct 2018	Apr 2019	16	36,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6007 / General Purpose Trucks					Aggregated Items: General Purpose Trucks			
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
2.22) TRUCK MAINTENANCE 10 TON W/800GAL FUEL STORAGE		2016	VARIOUS / VARIOUS	MIPR	GSA	Sep 2018	Jan 2019	2	152,739.00	Y		
2.22) TRUCK MAINTENANCE 10 TON W/800GAL FUEL STORAGE		2017	VARIOUS / VARIOUS	MIPR	GSA	Sep 2018	Jan 2019	5	155,114.00	Y		
2.23) TRUCK MULTISTOP DELIVERY GED 14000GVW		2016	VARIOUS / VARIOUS	MIPR	GSA	Sep 2018	Mar 2019	2	52,799.00	Y		
2.23) TRUCK MULTISTOP DELIVERY GED 14000GVW		2017	VARIOUS / VARIOUS	MIPR	GSA	Sep 2018	Mar 2019	5	53,731.00	Y		
2.24) TRUCK PANEL FORWARD CONTROL		2016	GM MOTORS / Detroit, MI	MIPR	GSA	Sep 2018	Dec 2018	3	27,362.00	Y		
2.24) TRUCK PANEL FORWARD CONTROL		2017	GM MOTORS / Detroit, MI	MIPR	GSA	Sep 2018	Dec 2018	4	27,486.00	Y		
2.25) TRUCK PANEL FORWARD CONTROL 6000 GVWR RHD		2019	Unknown / Unknown	MIPR	GSA	Jan 2019	Jan 2019	7	21,591.00	Y		
2.26) TRUCK PICK-UP CARGO 4X2 3800 GVW		2016	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Oct 2017	Oct 2017	5	19,528.00	Y		
2.26) TRUCK PICK-UP CARGO 4X2 3800 GVW		2017	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Oct 2017	Oct 2017	4	19,958.00	Y		
2.27) TRUCK PICK-UP CARGO 4X2 5050 GVW		2016	FCA US/AUBURN HILLS, MI / Unkown	MIPR	GSA	Nov 2016	Jun 2017	6	19,939.00	Y		
2.27) TRUCK PICK-UP CARGO 4X2 5050 GVW		2017	FCA US/AUBURN HILLS, MI / Unkown	MIPR	GSA	Apr 2017	Nov 2017	5	20,378.00	Y		
2.28) TRUCK PICK-UP CARGO 4X2 6050 GVW		2016	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Oct 2017	Oct 2017	4	21,384.00	Y		
2.28) TRUCK PICK-UP CARGO 4X2 6050 GVW		2017	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Oct 2017	Oct 2017	7	21,826.00	Y		
2.29) TRUCK PICKUP CARGO 4X2 GED AUTOMATIC TRANSMISSION		2016	Ford Motor Company / Dearborn, MI	MIPR	GSA	Dec 2017	Dec 2017	6	18,390.00	Y		
2.29) TRUCK PICKUP CARGO 4X2 GED AUTOMATIC TRANSMISSION		2017	FCA US/AUBURN HILLS, MI / Auburn Hills, MI	MIPR	GSA	Dec 2017	Dec 2017	5	18,401.00	Y		
2.30) TRUCK PICK-UP CARGO 8FT BED 6250 GVW		2016	GM MOTORS / Detroit, MI	MIPR	GSA	Nov 2016	Apr 2017	5	27,586.00	Y		
2.31) TRUCK STAKE 4X2 GED 25500 GVW		2016	JOHNSONS OF KINGFISHER / KINGFISHER, OK	MIPR	GSA	Sep 2016	Mar 2017	2	69,138.00	Y		
2.31) TRUCK STAKE 4X2 GED 25500 GVW		2017	JOHNSONS OF KINGFISHER / KINGFISHER, OK	MIPR	GSA	Jun 2017	Dec 2017	6	92,767.00	Y		
2.32) TRUCK STAKE 4X2 GED 43000 GVW		2017	Navistar, Inc / Knoxville, TN	MIPR	GSA	Oct 2018	Mar 2019	6	89,382.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6007 / General Purpose Trucks				Aggregated Items: General Purpose Trucks				
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
2.33) TRUCK STAKE 4X2 GED 52000 GVW		2017	Brasada/Northside Ford / San Antonio, TX	MIPR	GSA	Mar 2017	Mar 2017	3	121,041.00	Y		
2.34) TRUCK STAKE 4X2 GED 8500 GVW		2016	Brasada/Northside Ford / San Antonio, TX	MIPR	GSA	Mar 2017	Aug 2017	3	27,133.00	Y		
2.34) TRUCK STAKE 4X2 GED 8500 GVW		2017	Brasada/Northside Ford / San Antonio, TX	MIPR	GSA	Sep 2018	Feb 2019	4	27,631.00	Y		
2.35) TRUCK STAKE 4X2 GED 8600 GVW		2016	Ford Motor Company / Dearborn, MI	MIPR	GSA	Sep 2018	Mar 2019	3	25,059.00	Y		
2.35) TRUCK STAKE 4X2 GED 8600 GVW		2017	Ford Motor Company / Dearborn, MI	MIPR	GSA	Sep 2018	Mar 2019	5	25,535.00	Y		
2.36) TRUCK SUV 4 DR 7000 GVW		2016	Ford Motor Company / Dearborn, MI	MIPR	GSA	Sep 2018	Mar 2019	5	37,595.00	Y		
2.36) TRUCK SUV 4 DR 7000 GVW		2017	Ford Motor Company / Dearborn, MI	MIPR	GSA	Sep 2018	Mar 2019	9	38,370.00	Y		
2.37) TRUCK, MULTI-STOP DELIVERY 14000 GVRW AND UP DUALY (1)		2020	Unknown / Unknown	MIPR	** NO PCO **	Jan 2020	Oct 2020	4	45,630.00	Y		
2.38) TRUCK CARGO PICKUP 4X4 8501-9999 CREW CAB		2020	Unknown / Unknown	MIPR	GSA	Jan 2020	Oct 2020	2	35,490.00	Y		
2.39) TRUCK CARGO PICKUP UP TO 8500 GVWR REGULAR CAB		2020	Unknown / Unknown	MIPR	GSA	Jan 2020	Oct 2020	11	19,418.00	Y		
2.40) TRUCK CARGO PICKUP 4X4 UP TO 8500 GVWR CREW CAB		2020	Unknown / Unknown	C / TBD	GSA	Oct 2019	Jul 2020	1	24,336.00	Y		
2.41) TRUCK CARGO PICKUP COMPACT 4X2 UP TO 6100 GVWR EXTENDED CAB		2020	Unknown / Unknown	MIPR	** NO PCO **	Jan 2020	Oct 2020	43	24,133.00	Y		
2.42) TRUCK CARGO PICKUP COMPACT 4X2 UP TO 6100 GVWR CREW CAB		2020	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2020	Oct 2020	4	25,705.00	Y		
2.43) TRUCK CARGO PICKUP 4X2 8501-9999 GVWR CREW CAB		2020	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2020	Oct 2020	17	25,857.00	Y		
2.44) TRUCK PANEL VAN 4X2 6001-8500 GVWR		2020	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2020	Oct 2020	4	21,548.00	Y		
2.45) TRUCK PANEL VAN COMPACT 4X2 UP TO 6000 GVWR		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	2	30,741.00	Y		
2.46) TRUCK STAKE 4X2 8501-16000 GVWR REGULAR CAB		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	30	26,415.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6007 / General Purpose Trucks					Aggregated Items: General Purpose Trucks			
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
2.47) TRUCK MULTISTOP STEP VAN 8501-13999 GVWR		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Jan 2020	10	41,270.00	Y		
2.48) TRUCK STAKE 4X2 8501-16000 GVWR REGULAR CAB DUALY		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	4	27,074.00	Y		
2.49) TRUCK VAN FORWARD CONTROL HI-CUBE 8501 GVWR AND UP		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	6	41,574.00	Y		
2.50) TRUCK CARGO PICKUP COMPACT 4X4 REGULAR CAB RHD		2020	Unknown / Unknown	C / TBD	GSA	Oct 2019	Jul 2020	1	18,000.00	Y		
2.51) TRUCK PANEL MINI- COMPACT F/C GED JAPAN		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	24	8,416.00	Y		
2.52) TRUCK PANEL F/C GED 6000 GVW JAPAN		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	19	18,252.00	Y		
2.53) TRUCK STAKE 8501 GVWR AND UP RHD		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	4	34,983.00	Y		
2.54) TRUCK PANEL MINI- COMPACT F/C GED JAPAN / LOW SPEED VEHICLE 4 PASSENGER		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	1	18,774.00	Y		
2.54) TRUCK PANEL MINI- COMPACT F/C GED JAPAN / LOW SPEED VEHICLE 4 PASSENGER	✓	2020	Unknown / Unknown	C / TBD	** NO PCO **	Oct 2019	Oct 2019	1	18,774.00	N		
2.55) TRUCK CARGO PICKUP 9000 GVWR CREW CAB RHD		2020	Unknown / Unknown	C / TBD	GSA	Oct 2019	Jul 2020	31	27,378.00	Y		
2.56) TRUCK PANEL VAN MINI- COMPACT 4X4 RHD		2020	Unknown / Unknown	C / TBD	GSA	Oct 2019	Jul 2020	1	11,154.00	Y		
2.57) TRUCK PANEL VAN UP TO 8500 GVWR 4X4 RHD		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	1	27,378.00	Y		
2.58) TRUCK CARGO PICKUP 4X4 9200 GVWR CREW CAB RHD		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	4	39,543.00	Y		
2.59) TRUCK CARGO PICKUP COMP 4000 GVW JAPAN		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Jan 2020	8	16,296.00	Y		
2.60) TRUCK STAKE 4X4 8501-16000 GVWR RHD		2020	Unknown / Unknown	C / TBD	GSA	Oct 2019	Jul 2020	2	36,504.00	Y		
2.61) TRUCK CARGO PICKUP COMPACT 4X4 UP TO 6100 GVWR CREW CAB		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	25	38,532.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6007 / General Purpose Trucks				Aggregated Items: General Purpose Trucks				

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
2.62) TRUCK CARGO PICKUP COMPACT 4X2 5800 GVWR 4FT BED CREW CAB		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	7	23,529.00	Y		
2.63) TRUCK STAKE 8501 GVWR AND UP 8 FT BED REG CAB 4X2		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	1	31,566.00	Y		
2.64) TRUCK MULTISTOP DELIVERY 14000 GVWR AND UP		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Oct 2020	1	41,321.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6024 / Construction & Maint Equip					
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	19.819	36.173	20.994	43.191	0.000	43.191	48.158	48.506	48.365	49.335	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	19.819	36.173	20.994	43.191	0.000	43.191	48.158	48.506	48.365	49.335	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	19.819	36.173	20.994	43.191	0.000	43.191	48.158	48.506	48.365	49.335	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 FY 2020 funding request was reduced by \$2.766 million to account for the availability of prior year execution balances."

This budget line item funds procurement of equipment used for a variety of construction, maintenance, and repair operations. This equipment is used by the Naval Expeditionary Combat Command, Naval Beach Group, Maritime Prepositioning Force, and other Special Operating Units, in support of expeditionary force bases and camp sites.

Earth Moving Equipment includes equipment such as ditching machines, excavators, graders, wheeled and tracked loaders, rollers, compactors, scrapers, off-highway dump trucks, crawler tractors, and industrial tractors. This equipment constitutes the backbone of the Naval Construction Force (NCF) in meeting their advanced base construction mission. Dependable earth moving equipment in the fleet and shore inventories is required for the building and renovation of runways and roads, demolition activities at old building sites, and underground utilities excavation.

Miscellaneous Construction Equipment includes four major categories of construction equipment:

- General mix, batch, concrete and asphalt working equipment consists of equipment such as portable concrete mixers, rock crushers, asphalt and water distributors, aggregate spreaders, and asphalt and rubberized compound heating kettles which are used to provide aggregate materials for asphalt mixing plants and concrete batching plants. This equipment is used by the NCF to provide advance base and forward port facility construction and runway, taxi apron, and work area paving projects.
- Air compressors and drilling operations equipment consists of portable air compressors of various sizes and capacities for construction and maintenance projects; rock drills for quarry production, pile hammers and extractors for construction, repair, and disassembly of causeways, docks, piers, and wharves; earth augers to support electrical distribution and communications systems; well drilling machines to supply water in support of Marine Corps contingencies and construction battalions at camp sites and advance bases.
- Floodlights and generators consists of portable floodlight trailers (with 6kW generators) which are used by the NCF to provide light for around-the-clock construction efforts and generators used as portable power to support power tools, runway lighting, and backup systems for electrical power distribution. This equipment is part of the DOD Mobile Electric Power Program (PM-MEP) which provides reliable standardized generators for all DOD components.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment		P-1 Line Item Number / Title: 6024 / Construction & Maint Equip
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		
Other miscellaneous maintenance equipment consists of welders, decontamination apparatus, machine shop trailers and shredders. This equipment is used for a variety of maintenance, repair and construction operations and for purification and decontamination of personnel and equipment. Cranes (Weight Handling Equipment) includes truck or wheel-mounted cranes, straddle lifts, and crawler cranes. Truck mounted cranes have either lattice or hydraulic booms and range in size from 25 to 150 tons. Wheel-mounted cranes have hydraulic booms and range in size from 8 to 90 tons. Crawler cranes are used primarily for drag line and clam shell operations on terrain inaccessible with truck or wheel-mounted cranes. Amphibious Construction Battalions (PHIBCBs) use wheel-mounted hydraulic cranes and crawler cranes in over-the-beach operations and on elevated causeways (ELCAS). This program also funds the procurement of Expeditionary Material Handling Equipment (ExMHE) to satisfy operational requirements and replaces overaged non-repairable equipment used in material handling operations at world-wide Navy activities. Expeditionary MHE is used to equip and sustain expeditionary forces to execute combat, combat support, and combat service support missions. Expeditionary MHE belongs to expeditionary activities that are either forward deployed units or whose mission is in direct support of those units.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6024 / Construction & Maint Equip				
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Construction & Maint Equip	P-5a			- / 19.819	- / 36.172	- / 20.994	- / 43.191	- / -	- / 43.191
P-40	Total Gross/Weapon System Cost				- / 19.819	- / 36.173	- / 20.994	- / 43.191	- / 0.000	- / 43.191
*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: FY20 Baseline Justification: The \$22.197M budget increase from FY2019 to FY2020 is a realignment of funding that supports the transition of Facilities Engineering Command (FEC) from Navy Working Capital Fund (NWCF) to General Funding. As a general fund activity, FEC will be mission funded within Commander, Navy Installations Command (CNIC) to provide similar services to those that were previously purchased by customers. FEC Transition Cost Elements identified in P-40a Footnote 1. FY2020 funding provides for: - Investment in generators which are more fuel efficient than the current deployed assets, which in turn also lessens the burden on convoys for fuel - Service Life Extension Program (SLEP) of earthmoving equipment which has reached or surpassed its useful life - Recapitalization of Earthmoving equipment such as loaders that has reached or surpassed its useful life - Recapitalization of Expeditionary Material Handling Equipment consisting of forklifts and lift trucks that has reached or surpassed its useful life - Recapitalization of Miscellaneous Construction equipment that has reached or surpassed its useful life The requested funding supports the Naval Expeditionary Combat Command (Naval Construction Force, Coastal Riverine Force, Explosive Ordinance Disposal, Naval Expeditionary Logistics Support Group), Helo Mineron, Naval Beach Group, Navy Expeditionary Medical Support Command, and Naval Special Warfare. The funding will be used to procure equipment within each force's Table of Allowance (TOA), which meets its Required Operational Capabilities (ROC) and Projected Operational Environment (POE).										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1								P-1 Line Item Number / Title: 6024 / Construction & Maint Equip							Aggregated Items Title: Construction & Maint Equip					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) EARTHMOVING																				
1.1) ARMORED SKID STEER LOADER ^(†)	A		299,000.00	10	2.990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) SKID STEER LOADER ^(†)	A		183,800.00	10	1.838	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) GRADER ROAD 6X4 12 FT BLADE SCARIFIER ^(†)	A		-	-	-	286,305.00	1	0.286	-	-	-	-	-	-	-	-	-	-	-	-
1.4) GRADER MOTORIZED ^(†)	A		200,000.00	1	0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) LOADER SCOOP WH ^(†)	A		138,000.00	1	0.138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7) LOADER SCOOP WHL 2.5CY MP BKT FKS ^(†)	A		320,800.00	5	1.604	184,804.00	12	2.218	-	-	-	-	-	-	-	-	-	-	-	-
1.8) LOADER SKID CLOSED CAB DED B41/APH/FK ^(†)	A		99,500.00	4	0.398	-	-	-	105,379.00	2	0.211	107,487.00	15	1.612	-	-	-	107,487.00	15	1.612
1.9) LOADER SKID CLOSED CAB DED B41/APH/ FK (RESERVE FORCES) ^(†)	A		94,000.00	1	0.094	103,313.00	23	2.376	-	-	-	-	-	-	-	-	-	-	-	-
1.10) EXCAVATOR CRAWLER ^(†)	A		394,333.33	3	1.183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.11) ROLLER MOTORIZED ^(†)	A		-	-	-	206,493.00	2	0.413	-	-	-	-	-	-	-	-	-	-	-	-
1.12) SLEP EARTHMOVING EQUIPMENT PROGRAM ^(†)	A		-	-	-	150,000.00	12	1.800	153,000.00	40	6.120	156,060.00	42	6.555	-	-	-	156,060.00	42	6.555
1.15) TRACTOR CRAWLER DED 240 HP W/WATER FORD ^(†)	A		626,500.00	2	1.253	563,754.00	1	0.564	575,029.00	4	2.300	-	-	-	-	-	-	-	-	-
1.18) TRACTOR WHEELED INDUST 4X2 93HP LDR 1.3 CYD BCKT ^(†)	A		230,600.00	5	1.153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.19) TRACTOR WHEELED INDUST 4X2 60 NET HP ^(†)	A		143,000.00	1	0.143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy																Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6024 / Construction & Maint Equip										Aggregated Items Title: Construction & Maint Equip				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
1.20) TRACTOR WHEELED INDUSTRIAL 50 - 70 HP ^(†)	A		-	-	-	75,000.00	5	0.375	75,500.00	2	0.151	78,030.00	1	0.078	-	-	-	78,030.00	1	0.078
1.21) TRACTOR WHEELED LDR/ BKHO ^(†)	A		-	-	-	165,409.00	1	0.165	-	-	-	165,409.00	1	0.165	-	-	-	165,409.00	1	0.165
1.22) TRACTOR WHEELED LOADER 2 CY BUCKET ^(†)	A		-	-	-	-	-	-	164,000.00	2	0.328	-	-	-	-	-	-	-	-	-
1.23) TRACTOR WHEELED LOADER 5 CY BUCKET ^(†)	A		-	-	-	-	-	-	185,000.00	2	0.370	188,700.00	1	0.189	-	-	-	188,700.00	1	0.189
1.24) TRC WH IND10-70 ^(†)	A		65,000.00	1	0.065	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25) LOADER SCOOP WHEEL MOUNTED 1.5 CY GP 85 HP CAB ^{(1)(†)}	A		-	-	-	-	-	-	-	-	-	111,540.00	1	0.112	-	-	-	111,540.00	1	0.112
1.26) LOADER SCOOP WHEEL MOUNTED 4X4 NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	76,050.00	2	0.152	-	-	-	76,050.00	2	0.152
1.27) LOADER SCOOP TRACK 1.75 CY BUCKET W/ TEETH ^(†)	A		-	-	-	-	-	-	-	-	-	363,659.00	1	0.364	-	-	-	363,659.00	1	0.364
1.28) LOADER SKID STEER NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	125,136.00	2	0.250	-	-	-	125,136.00	2	0.250
1.29) LOADER SKID STEER WHEEL MOUNTED ^(†)	A		-	-	-	-	-	-	-	-	-	35,490.00	1	0.035	-	-	-	35,490.00	1	0.035
1.30) LOADER SKID STEER CRAWLER MOUNTED ^(†)	A		-	-	-	-	-	-	-	-	-	87,204.00	2	0.174	-	-	-	87,204.00	2	0.174
1.31) LOADER SKID STEER DED BH/ BUCKET/FOLKS ^(†)	A		-	-	-	-	-	-	-	-	-	85,176.00	1	0.085	-	-	-	85,176.00	1	0.085
1.32) MINI EXCAVATOR MULTIPURPOSE CRAWLER MOUNTED ^(†)	A		-	-	-	-	-	-	-	-	-	75,000.00	2	0.150	-	-	-	75,000.00	2	0.150

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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
1.33) EXCAVATOR MODEL 300 WITH THUMB MOUNTED BUCKET ^(†)	A		-	-	-	-	-	-	-	-	-	257,556.00	1	0.258	-	-	-	257,556.00	1	0.258
1.34) ROLLER ROAD VIBRATORY 3-18 TON NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	167,310.00	1	0.167	-	-	-	167,310.00	1	0.167
1.35) TRACTOR WHEELED INDUSTRIAL 50-70 HP NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	110,822.00	3	0.332	-	-	-	110,822.00	3	0.332
1.36) TRACTOR WHEELED INDUSTRIAL 90 HP MIN NON-STANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	187,590.00	4	0.750	-	-	-	187,590.00	4	0.750
1.37) TRACTOR WHEELED INDUSTRIAL 4X2 60 HP MIN LDR 1CY BUCKET BACKHOE ^(†)	A		-	-	-	-	-	-	-	-	-	18,460.00	1	0.018	-	-	-	18,460.00	1	0.018
1.38) TRACTOR WHEELED INDUSTRIAL UP TO 49 HP NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	147,030.00	1	0.147	-	-	-	147,030.00	1	0.147
1.39) TRACTOR WHEELED INDUSTRIAL 4X4 90 HP MIN LDR 1-1/2CY BUCKET BACKHOE ^(†)	A		-	-	-	-	-	-	-	-	-	136,890.00	7	0.958	-	-	-	136,890.00	7	0.958
Subtotal: 1) EARTHMOVING			-	-	11.059	-	-	8.197	-	-	9.480	-	-	12.551	-	-	-	-	-	12.551
2) MISC. CONSTRUCTION																				
2.1) ASPHALT RECYCLER ^(†)	A		260,000.00	1	0.260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) COLD FORMED STEEL FACTORY SYSTEMS ^(†)	A		-	-	-	-	-	-	450,000.00	4	1.800	459,000.00	2	0.918	-	-	-	459,000.00	2	0.918
2.3) CONCRETE MIXER ^(†)	A		-	-	-	24,278.00	61	1.481	-	-	-	-	-	-	-	-	-	-	-	-
2.4) CONCRETE SAW ^(†)	A		-	-	-	25,361.00	6	0.152	-	-	-	-	-	-	-	-	-	-	-	-

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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total			
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2.5) ECU 8T 35KW GENERATOR TRAILER MOUNT ^(†)	A		105,000.00	2	0.210	107,316.00	12	1.288	-	-	-	111,652.00	2	0.223	-	-	-	111,652.00	2	0.223	
2.6) ECU 8T 35KW GENERATOR TRAILER MOUNT (RESERVE FORCES) ^(†)	A		-	-	-	107,316.00	2	0.215	-	-	-	-	-	-	-	-	-	-	-	-	
2.8) FLOODLIGHT SET ELECTRIC SELF-CONTAINED TRLR-MTD ^(†)	A		13,500.00	4	0.054	-	-	-	10,470.00	32	0.335	10,679.00	30	0.320	-	-	-	10,679.00	30	0.320	
2.9) GEN 35KW AMMPS MEP 1060 SKID MTD DED ^(†)	A		-	-	-	32,861.00	6	0.197	-	-	-	-	-	-	-	-	-	-	-	-	
2.10) GEN 60KW 50/60HZ AMMPS NEW GENERATION MEP ^(†)	A		31,785.71	14	0.445	-	-	-	50,995.00	35	1.785	52,015.00	33	1.716	-	-	-	52,015.00	33	1.716	
2.12) GEN SET 30KW DIESEL ENGINE 30 KW MEP805B ^(†)	A		35,250.00	4	0.141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.14) GENERATOR 60 KW MEP806B ^(†)	A		44,000.00	1	0.044	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.15) GENERATOR SET 100KW MEP807A TACT QUIET DED SKID ^(†)	A		91,000.00	2	0.182	-	-	-	-	-	-	93,976.00	27	2.537	-	-	-	93,976.00	27	2.537	
2.16) GENERATOR SET 30KW AMMPS MEP 1060 SKID MTD DED ^(†)	A		-	-	-	-	-	-	31,432.00	1	0.031	32,061.00	1	0.032	-	-	-	32,061.00	1	0.032	
2.18) GENERATOR SET 60KW AMMPS MEP 1070 SKID ^(†)	A		50,000.00	125	6.250	35,992.00	102	3.671	-	-	-	-	-	-	-	-	-	-	-	-	
2.19) LUBE SKID ^(†)	A		-	-	-	121,000.00	5	0.605	123,420.00	7	0.864	-	-	-	-	-	-	-	-	-	
2.20) MIXER CONCRETE 6 CUBIC METERS ^(†)	A		359,000.00	2	0.718	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.22) SWEEPER MAGNET SELF-PROPELLED TRACTOR MTD 8FT ^(†)	A		-	-	-	31,836.00	9	0.287	-	-	-	-	-	-	-	-	-	-	-	-	

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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
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2.23) WELDER ARC ELECTRIC 300 AMPS AC/DC TIG DED ^(†)	A		37,000.00	1	0.037	37,916.00	3	0.114	38,916.00	1	0.039	39,447.00	2	0.079	-	-	-	39,447.00	2	0.079
2.25) AERIAL WORK PLATFORM, SCISSOR LIFT 20-40 FT ^(†)	A		-	-	-	-	-	-	-	-	-	180,492.00	1	0.180	-	-	-	180,492.00	1	0.180
2.26) CAR RAILWAY, FLAT NON-STANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	177,450.00	6	1.065	-	-	-	177,450.00	6	1.065
2.27) CLEANER BASIN/MANHOLE VACUUM/ HYDRAULIC TRUCK MOUNTED NON-STANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	329,550.00	6	1.977	-	-	-	329,550.00	6	1.977
2.28) CLEANER SEWAGE/WASTE COLLECTION 1300 GALLON ^(†)	A		-	-	-	-	-	-	-	-	-	136,890.00	6	0.821	-	-	-	136,890.00	6	0.821
2.29) CLEANER VACUUM SELF-PROPELLED AIRFIELD WITH BLOWER HI-SPEED ^(†)	A		-	-	-	-	-	-	-	-	-	198,744.00	4	0.795	-	-	-	198,744.00	4	0.795
2.30) FLOODLIGHT SET ELECTRIC TRUCK/TRAILER MOUNTED NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	15,210.00	2	0.030	-	-	-	15,210.00	2	0.030
2.31) FLOODLIGHT SET TRAILER MOUNTED 5KW WITH 4 1KW LUM ^(†)	A		-	-	-	-	-	-	-	-	-	15,210.00	6	0.091	-	-	-	15,210.00	6	0.091
2.32) GENERATOR SET SKID/TRAILER MOUNTED 60-100 KW NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	101,238.00	4	0.405	-	-	-	101,238.00	4	0.405
2.33) GENERATOR SET SKID/TRAILER MOUNTED 151-250 KW NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	101,400.00	4	0.406	-	-	-	101,400.00	4	0.406
2.34) GENERATOR SET SKID MOUNTED/	A		-	-	-	-	-	-	-	-	-	40,050.00	1	0.040	-	-	-	40,050.00	1	0.040

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TRAILER 60 KW COMMERCIAL ^(†)																				
2.35) GENERATOR SET SKID/TRAILER MOUNTED 500-750 KW NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	106,470.00	2	0.213	-	-	-	106,470.00	2	0.213
2.36) LOW SPEED VEHICLE 4 PASSENGER ^(†)	A		-	-	-	-	-	-	-	-	-	12,168.00	4	0.049	-	-	-	12,168.00	4	0.049
2.37) LOW SPEED VEHICLE 2 PASSENGER WITH FLATBED ^(†)	A		-	-	-	-	-	-	-	-	-	17,238.00	5	0.086	-	-	-	17,238.00	5	0.086
2.38) LOW SPEED VEHICLE CARGO VAN ^(†)	A		-	-	-	-	-	-	-	-	-	18,145.00	2	0.036	-	-	-	18,145.00	2	0.036
2.39) LSV CARGO VAN W/LIFT GATE ^(†)	A		-	-	-	-	-	-	-	-	-	20,280.00	2	0.041	-	-	-	20,280.00	2	0.041
2.40) LOW SPEED VEHICLE 2 PASSENGER ^(†)	A		-	-	-	-	-	-	-	-	-	12,168.00	1	0.012	-	-	-	12,168.00	1	0.012
2.41) LSV (NEW) support ^(†)	A		-	-	-	-	-	-	-	-	-	20,280.00	1	0.020	-	-	-	20,280.00	1	0.020
2.42) LOW SPEED VEHICLE 2 PASSENGER SOLAR POWERED ^(†)	A		-	-	-	-	-	-	-	-	-	30,420.00	1	0.030	-	-	-	30,420.00	1	0.030
2.43) LOW SPEED VEHICLE CARGO VAN SOLAR POWERED ^(†)	A		-	-	-	-	-	-	-	-	-	30,420.00	2	0.061	-	-	-	30,420.00	2	0.061
2.44) LOW SPEED VEHICLE 6 PASSENGER VAN SOLAR POWERED ^(†)	A		-	-	-	-	-	-	-	-	-	30,420.00	1	0.030	-	-	-	30,420.00	1	0.030
2.45) Non Solar SMV 4 DOOR SHORT BED with A/C ^(†)	A		-	-	-	-	-	-	-	-	-	30,420.00	2	0.061	-	-	-	30,420.00	2	0.061
2.46) PLATFORM MAINTENANCE 60 FT ^(†)	A		-	-	-	-	-	-	-	-	-	120,000.00	7	0.840	-	-	-	120,000.00	7	0.840

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2.47) PLATFORM MAINTENANCE 80FT ^(†)	A		-	-	-	-	-	-	-	-	-	151,500.00	2	0.303	-	-	-	151,500.00	2	0.303
2.48) PLATFORM MAINTENANCE 90 FT ^(†)	A		-	-	-	-	-	-	-	-	-	141,960.00	1	0.142	-	-	-	141,960.00	1	0.142
2.49) PLATFORM MAINTENANCE 120 FT ^(†)	A		-	-	-	-	-	-	-	-	-	180,000.00	2	0.360	-	-	-	180,000.00	2	0.360
2.50) MAN LIFT 60' REACH HYBRID DIESEL ^(†)	A		-	-	-	-	-	-	-	-	-	111,540.00	1	0.112	-	-	-	111,540.00	1	0.112
2.51) MAN LIFT 80' REACH ARTICULATING BOOM ^(†)	A		-	-	-	-	-	-	-	-	-	139,932.00	2	0.280	-	-	-	139,932.00	2	0.280
2.52) ROLLER ROAD VIBRATORY 3-18 TON NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	91,260.00	1	0.091	-	-	-	91,260.00	1	0.091
2.53) SWEEPER ROTARY SELF-PROPELLED WHEEL MOUNTED NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	184,392.00	5	0.922	-	-	-	184,392.00	5	0.922
2.54) WELDER ARC WHEEL-MOUNTED 300 AMP DC ^(†)	A		-	-	-	-	-	-	-	-	-	60,840.00	1	0.061	-	-	-	60,840.00	1	0.061
Subtotal: 2) MISC. CONSTRUCTION			-	-	8.341	-	-	8.010	-	-	4.854	-	-	15.385	-	-	-	-	-	15.385
3) CRANES																				
3.2) CRANE HYD TRK MTD 40 TON (RESERVE FORCES) ^(†)	A		-	-	-	570,193.00	2	1.140	-	-	-	-	-	-	-	-	-	-	-	-
3.3) CRANE HYD TRK MTD 40 TON ^(†)	A		-	-	-	-	-	-	603,000.00	4	2.412	615,060.00	5	3.075	-	-	-	615,060.00	5	3.075
3.4) CRANE WHEEL MOUNTED SWING CAB 4X4 15-40 TON ^(†)	A		-	-	-	-	-	-	379,000.00	2	0.758	386,580.00	1	0.387	-	-	-	386,580.00	1	0.387
3.8) EXCAVATOR CRAWLER MOUNTED HYDRAULIC	A		-	-	-	363,000.00	1	0.363	-	-	-	-	-	-	-	-	-	-	-	-

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OPERATED NONSTANDARD ^(†)																				
3.9) CRANE TRUCK MOUNTED HYDRAULIC 91-100 TON ^(†)	A		-	-	-	1,326K	3	3.979	-	-	-	1,380K	4	5.520	-	-	-	1,380K	4	5.520
3.10) CRANE WHEEL MOUNTED SWING CAB 4X4 15-40 TON (30T) ^(†)	A		-	-	-	-	-	-	-	-	-	526,266.00	5	2.631	-	-	-	526,266.00	5	2.631
Subtotal: 3) CRANES			-	-	0.000	-	-	5.482	-	-	3.170	-	-	11.613	-	-	-	-	-	11.613
4) ILS SUPPORT COST																				
4.1) ILS SUPPORT COSTS	A		-	-	0.419	-	-	0.188	-	-	0.561	-	-	0.100	-	-	-	-	-	0.100
Subtotal: 4) ILS SUPPORT COST			-	-	0.419	-	-	0.188	-	-	0.561	-	-	0.100	-	-	-	-	-	0.100
5) EXPEDITIONARY MATERIAL HANDLING EQUIPMENT																				
5.1) FORKLIFT 11K DED PRT ROUGH TERRAIN (182011) ^(†)	A		-	-	-	190,000.00	3	0.570	-	-	-	-	-	-	-	-	-	-	-	-
5.2) FORKLIFT 11K DED SRT ^(†)	A		-	-	-	50,000.00	2	0.100	-	-	-	-	-	-	-	-	-	-	-	-
5.3) FORKLIFT 15K DED SRT ^(†)	A		-	-	-	88,000.00	3	0.264	-	-	-	-	-	-	-	-	-	-	-	-
5.4) FORKLIFT 6K DED PRT ^(†)	A		-	-	-	-	-	-	45,000.00	4	0.180	-	-	-	-	-	-	-	-	-
5.5) ILS for Truck, Forklift, 7-11K MMV ⁽²⁾	A		-	-	-	-	-	0.062	-	-	-	-	-	-	-	-	-	-	-	-
5.6) TRFK D 53K PRT (182051) ^(†)	A		-	-	-	886,160.00	3	2.658	-	-	-	-	-	-	-	-	-	-	-	-
5.7) Truck, Forklift, 10K DED (134010) ^(†)	A		-	-	-	126,988.00	4	0.508	-	-	-	-	-	-	-	-	-	-	-	-
5.8) TRFK D 53LB PRT ^(†)	A		-	-	-	-	-	-	535,500.00	1	0.536	546,210.00	1	0.546	-	-	-	546,210.00	1	0.546
5.9) TRFK D 12LB PRT ^(†)	A		-	-	-	-	-	-	178,068.00	1	0.178	-	-	-	-	-	-	-	-	-
5.10) Truck, Forklift, 12K RT (182012) ^(†)	A		-	-	-	185,000.00	22	4.070	-	-	-	-	-	-	-	-	-	-	-	-
5.11) TRFK D 20LB PRT ^(†)	A		-	-	-	-	-	-	290,700.00	7	2.035	296,514.00	1	0.297	-	-	-	296,514.00	1	0.297
5.12) TRFK 11K TELHDL ^(†)	A		-	-	-	-	-	-	-	-	-	87,060.00	31	2.699	-	-	-	87,060.00	31	2.699

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6024 / Construction & Maint Equip							Aggregated Items Title: Construction & Maint Equip						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
5.15) Truck, Forklift, 25K DED (134025) ^(†)	A		-	-	-	130,000.00	2	0.260	-	-	-	-	-	-	-	-	-	-	-	-
5.16) Truck, Forklift, 6K DED (133006) ^(†)	A		-	-	-	38,160.00	4	0.153	-	-	-	-	-	-	-	-	-	-	-	-
5.17) Truck, Forklift, 6K LPG (130506) ^(†)	A		-	-	-	31,081.00	6	0.186	-	-	-	-	-	-	-	-	-	-	-	-
5.18) Truck, Forklift, 7-11K MMV (182011) ^(†)	A		-	-	-	156,109.00	35	5.464	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 5) EXPEDITIONARY MATERIAL HANDLING EQUIPMENT			-	-	0.000	-	-	14.295	-	-	2.929	-	-	3.542	-	-	-	-	-	3.542
Total			-	-	19.819	-	-	36.172	-	-	20.994	-	-	43.191	-	-	-	-	-	43.191

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) Cost elements 1.25 thru 1.39, 2.25 thru 2.54 and 3.10 are items that were formerly procured via NWCF and have shifted to OPN.

(2) ILS is developed in the same year as the product is being procured.

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6024 / Construction & Maint Equip					Aggregated Items: Construction & Maint Equip			
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) EARTHMOVING												
1.1) ARMORED SKID STEER LOADER		2017	Caterpillar, Inc / Mossville, IL	MIPR	DLA	Oct 2017	Apr 2018	10	299,041.00	Y		
1.2) SKID STEER LOADER		2017	Caterpillar, Inc / Mossville, IL	MIPR	DLA	Sep 2017	Sep 2017	10	183,789.00	Y		
1.3) GRADER ROAD 6X4 12 FT BLADE SCARIFIER		2018	UNKNOWN / UNKNOWN	MIPR	DLA	Feb 2019	Jun 2019	1	286,305.00	Y		
1.4) GRADER MOTORIZED		2017	Gaithersburg Farmers Supply / Gaithersburg, MD	MIPR	DSCP	Sep 2017	Mar 2018	1	200,308.00	Y		
1.5) LOADER SCOOP WH		2017	Gaithersburg Farmers Supply / Gaithersburg, MD	MIPR	DLA	Sep 2017	Sep 2018	1	137,691.00	Y		
1.7) LOADER SCOOP WHL 2.5CY MP BKT FKS		2017	VARIOUS / VARIOUS	MIPR	DLA	Oct 2017	Feb 2018	5	320,890.00	Y		
1.7) LOADER SCOOP WHL 2.5CY MP BKT FKS		2018	DSCP / Philadelphia, PA	MIPR	DLA	Aug 2018	Dec 2018	12	184,804.00	Y		
1.8) LOADER SKID CLOSED CAB DED B41/APH/FK		2016	Caterpillar, Inc / Mossville, IL	MIPR	DLA	Aug 2016	Feb 2017	3	101,287.00	Y		
1.8) LOADER SKID CLOSED CAB DED B41/APH/FK		2017	Caterpillar, Inc / Mossville, IL	MIPR	DLA	Jun 2017	Nov 2017	1	94,033.00	Y		
1.8) LOADER SKID CLOSED CAB DED B41/APH/FK		2019	UNKNOWN / UNKNOWN	MIPR	DLA	Mar 2019	Mar 2019	2	105,379.00	Y		
1.8) LOADER SKID CLOSED CAB DED B41/APH/FK		2020	UNKNOWN / UNKNOWN	MIPR	DLA	Mar 2020	Mar 2020	15	107,487.00	Y		
1.9) LOADER SKID CLOSED CAB DED B41/APH/FK (RESERVE FORCES)		2017	VARIOUS / VARIOUS	MIPR	DLA	Oct 2017	Feb 2018	1	94,033.00	Y		
1.9) LOADER SKID CLOSED CAB DED B41/APH/FK (RESERVE FORCES)		2018	Caterpillar, Inc / Mossville, IL	MIPR	DLA	Aug 2018	Dec 2018	23	103,313.00	Y		
1.10) EXCAVATOR CRAWLER		2017	VARIOUS / VARIOUS	MIPR	DLA	Sep 2017	Mar 2018	3	394,491.50	Y		
1.11) ROLLER MOTORIZED		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jun 2019	2	206,493.00	Y		
1.12) SLEP EARTHMOVING EQUIPMENT PROGRAM		2018	TACOM - Commercial / Warren, MI	MIPR	TACOM	Feb 2019	Nov 2019	12	150,000.00	Y		
1.12) SLEP EARTHMOVING EQUIPMENT PROGRAM		2019	Unknown / Unknown	MIPR	UNK	Jun 2019	Jun 2019	40	153,000.00	Y		
1.12) SLEP EARTHMOVING EQUIPMENT PROGRAM		2020	Unknown / Unknown	MIPR	UNK	Mar 2020	Mar 2020	42	156,060.00	Y		
1.15) TRACTOR CRAWLER DED 240 HP W/WATER FORD		2017	Caterpillar, Inc / Mossville, IL	MIPR	DLA	Oct 2017	Apr 2018	2	626,580.00	Y		
1.15) TRACTOR CRAWLER DED 240 HP W/WATER FORD		2018	DSCP / Philadelphia, PA	MIPR	DLA	Sep 2018	Mar 2019	1	563,754.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6024 / Construction & Maint Equip					Aggregated Items: Construction & Maint Equip			
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
1.15) TRACTOR CRAWLER DED 240 HP W/WATER FORD		2019	Unknown / Unknown	MIPR	DLA	Jun 2019	Jun 2019	4	575,029.00	Y		
1.18) TRACTOR WHEELED INDUST 4X2 93HP LDR 1.3 CYD BCKT		2017	VARIOUS / VARIOUS	MIPR	DSCP	Oct 2017	Oct 2017	5	230,548.00	Y		
1.19) TRACTOR WHEELED INDUST 4X2 60 NET HP		2017	John Deere / Cary, NC	MIPR	DSCP	May 2017	Nov 2017	1	142,824.00	Y		
1.20) TRACTOR WHEELED INDUSTRIAL 50 - 70 HP		2018	Unknown / Unknown	MIPR	DSCP	Feb 2019	Jun 2019	5	75,000.00	Y		
1.20) TRACTOR WHEELED INDUSTRIAL 50 - 70 HP		2019	Unknown / Unknown	C / TBD	DSCP	Mar 2019	Mar 2019	2	75,500.00	Y		
1.20) TRACTOR WHEELED INDUSTRIAL 50 - 70 HP		2020	Unknown / Unknown	C / TBD	DSCP	Mar 2020	Mar 2020	1	78,030.00	Y		
1.21) TRACTOR WHEELED LDR/ BKHO		2018	DSCP / Philadelphia, PA	MIPR	DLA	Sep 2018	Jan 2019	1	165,409.00	Y		
1.21) TRACTOR WHEELED LDR/ BKHO		2020	Unknown / Unknown	C / TBD	** NO PCO **	Jan 2020	Jan 2020	1	165,409.00	Y		
1.22) TRACTOR WHEELED LOADER 2 CY BUCKET		2019	Unknown / Unknown	C / TBD	DSCP	Jan 2019	Jan 2020	2	164,000.00	Y		
1.23) TRACTOR WHEELED LOADER 5 CY BUCKET		2019	Unknown / Unknown	C / TBD	DSCP	Jan 2019	Jan 2020	2	185,000.00	Y		
1.24) TRC WH IND10-70		2017	John Deere / Cary, NC	MIPR	DSCP	Sep 2018	Sep 2018	1	64,849.00	Y		
1.25) LOADER SCOOP WHEEL MOUNTED 1.5 CY GP 85 HP CAB (1)		2020	Unknown / Unknown	C / TBD	DLA	Jan 2020	Oct 2020	1	111,540.00	Y		
1.26) LOADER SCOOP WHEEL MOUNTED 4X4 NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Jan 2020	Oct 2020	2	76,050.00	Y		
1.27) LOADER SCOOP TRACK 1.75 CY BUCKET W/ TEETH		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	1	363,659.00	Y		
1.28) LOADER SKID STEER NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	2	125,136.00	Y		
1.29) LOADER SKID STEER WHEEL MOUNTED		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	1	35,490.00	Y		
1.30) LOADER SKID STEER CRAWLER MOUNTED		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	2	87,204.00	Y		
1.31) LOADER SKID STEER DED BH/BUCKET/FOLKS		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	1	85,176.00	Y		
1.32) MINI EXCAVATOR MULTIPURPOSE CRAWLER MOUNTED		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	2	75,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6024 / Construction & Maint Equip					Aggregated Items: Construction & Maint Equip			
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
1.33) EXCAVATOR MODEL 300 WITH THUMB MOUNTED BUCKET		2020	Unknown / Unknown	C / TBD	d	Oct 2019	Jul 2020	1	257,556.00	Y		
1.34) ROLLER ROAD VIBRATORY 3-18 TON NONSTANDARD		2020	Unknown / Unknown	C / TBD	** NO PCO **	Oct 2019	Jul 2020	1	167,310.00	Y		
1.35) TRACTOR WHEELED INDUSTRIAL 50-70 HP NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	3	110,822.00	Y		
1.36) TRACTOR WHEELED INDUSTRIAL 90 HP MIN NON-STANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	4	187,590.00	Y		
1.37) TRACTOR WHEELED INDUSTRIAL 4X2 60 HP MIN LDR 1CY BUCKET BACKHOE		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	1	18,460.00	Y		
1.38) TRACTOR WHEELED INDUSTRIAL UP TO 49 HP NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	1	147,030.00	Y		
1.39) TRACTOR WHEELED INDUSTRIAL 4X4 90 HP MIN LDR 1-1/2CY BUCKET BACKHOE		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	7	136,890.00	Y		
2) MISC. CONSTRUCTION												
2.1) ASPHALT RECYCLER		2017	VARIOUS / VARIOUS	MIPR	DLA	Oct 2017	Feb 2018	1	260,000.00	Y		
2.2) COLD FORMED STEEL FACTORY SYSTEMS		2019	UNKNOWN / UNKNOWN	C / TBD	DLA	Mar 2019	Jul 2019	4	450,000.00	Y		
2.2) COLD FORMED STEEL FACTORY SYSTEMS		2020	UNKNOWN / UNKNOWN	C / TBD	DLA	Mar 2020	Mar 2020	2	459,000.00	Y		
2.3) CONCRETE MIXER		2018	GSA / GSA	MIPR	DLA	May 2018	Sep 2018	61	24,278.00	Y		
2.4) CONCRETE SAW		2018	Unknown / Unknown	MIPR	DLA	Mar 2019	Jul 2019	6	25,361.00	Y		
2.5) ECU 8T 35KW GENERATOR TRAILER MOUNT		2017	VARIOUS / VARIOUS	MIPR	DLA	Oct 2017	Feb 2018	2	105,212.00	Y		
2.5) ECU 8T 35KW GENERATOR TRAILER MOUNT		2018	UNKNOWN / UNKNOWN	MIPR	DLA	Feb 2019	Jun 2019	12	107,316.00	Y		
2.5) ECU 8T 35KW GENERATOR TRAILER MOUNT		2020	UNKNOWN / UNKNOWN	MIPR	DLA	Mar 2020	Jul 2020	2	111,652.00	Y		
2.6) ECU 8T 35KW GENERATOR TRAILER MOUNT (RESERVE FORCES)		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jun 2019	2	107,316.00	Y		
2.8) FLOODLIGHT SET ELECTRIC SELF-CONTAINED TRLR-MTD		2016	Caterpillar, Inc / Mossville, IL	C / FP	DSCP	Sep 2016	Jan 2017	4	13,491.00	Y		

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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
2.8) FLOODLIGHT SET ELECTRIC SELF-CONTAINED TRLR-MTD		2019	Caterpillar, Inc / Mossville, IL	C / FP	DSCP	Mar 2019	Jul 2019	32	10,470.00	Y		
2.8) FLOODLIGHT SET ELECTRIC SELF-CONTAINED TRLR-MTD		2020	Caterpillar, Inc / Mossville, IL	C / FP	DSCP	Oct 2019	Oct 2019	30	10,679.00	N		
2.9) GEN 35KW AMMPS MEP 1060 SKID MTD DED		2018	Unknown / Unknown	MIPR	Army MEP	Feb 2019	Jun 2019	6	32,861.00	Y		
2.10) GEN 60KW 50/60HZ AMMPS NEW GENERATION MEP		2016	MEP / Ft. Belvoir, VA	MIPR	Army MEP	Mar 2016	Sep 2016	14	31,781.00	Y		
2.10) GEN 60KW 50/60HZ AMMPS NEW GENERATION MEP		2019	UNKNOWN / UNKNOWN	MIPR	Army MEP	Mar 2019	Mar 2019	35	50,995.00	Y		
2.10) GEN 60KW 50/60HZ AMMPS NEW GENERATION MEP		2020	UNKNOWN / UNKNOWN	C / TBD	Army MEP	Mar 2020	Mar 2020	33	52,015.00	Y		
2.12) GEN SET 30KW DIESEL ENGINE 30 KW MEP805B		2017	VARIOUS / VARIOUS	MIPR	Army MEP	Oct 2017	Feb 2018	4	35,246.00	Y		
2.14) GENERATOR 60 KW MEP806B		2017	VARIOUS / VARIOUS	MIPR	Army MEP	Oct 2017	Oct 2018	1	44,328.00	Y		
2.15) GENERATOR SET 100KW MEP807A TACT QUIET DED SKID		2016	VARIOUS / VARIOUS	MIPR	Army MEP	Oct 2017	Mar 2018	2	91,000.00	Y		
2.16) GENERATOR SET 30KW AMMPS MEP 1060 SKID MTD DED		2019	Unknown / Unknown	MIPR	Army MEP	Jan 2019	Jan 2020	1	31,432.00	Y		
2.18) GENERATOR SET 60KW AMMPS MEP 1070 SKID		2017	VARIOUS / VARIOUS	MIPR	Army MEP	Sep 2017	Mar 2018	125	50,000.00	Y		
2.18) GENERATOR SET 60KW AMMPS MEP 1070 SKID		2018	GSA / GSA	MIPR	GSA	Aug 2018	Feb 2019	102	35,992.00	Y		
2.19) LUBE SKID		2018	Unknown / Unknown	MIPR	DSCP	Feb 2019	Nov 2019	5	121,000.00	Y		
2.19) LUBE SKID		2019	Unknown / Unknown	MIPR	DSCP	Jun 2019	Jun 2019	7	123,420.00	Y		
2.20) MIXER CONCRETE 6 CUBIC METERS		2017	VARIOUS / VARIOUS	MIPR	DLA	Sep 2017	Mar 2018	2	359,173.00	Y		
2.22) SWEEPER MAGNET SELF- PROPELLED TRACTOR MTD 8FT		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jun 2019	9	31,836.00	Y		
2.23) WELDER ARC ELECTRIC 300 AMPS AC/DC TIG DED		2016	VARIOUS / VARIOUS	MIPR	DSCP	Oct 2017	Feb 2018	1	37,209.00	Y		
2.23) WELDER ARC ELECTRIC 300 AMPS AC/DC TIG DED		2018	VARIOUS / VARIOUS	MIPR	DSCP	Sep 2018	Jan 2019	3	37,916.00	Y		
2.23) WELDER ARC ELECTRIC 300 AMPS AC/DC TIG DED		2019	VARIOUS / VARIOUS	MIPR	DSCP	Mar 2019	Jul 2019	1	38,916.00	Y		
2.23) WELDER ARC ELECTRIC 300 AMPS AC/DC TIG DED		2020	VARIOUS / VARIOUS	MIPR	DSCP	Mar 2020	Mar 2020	2	39,447.00	N		

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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
2.25) AERIAL WORK PATFORM, SCISSOR LIFT 20-40 FT		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	1	180,492.00	Y		
2.26) CAR RAILWAY, FLAT NON- STANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	6	177,450.00	Y		
2.27) CLEANER BASIN/MANHOLE VACUUM/HYDRAULIC TRUCK MOUNTED NON-STANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	6	329,550.00	Y		
2.28) CLEANER SEWAGE/WASTE COLLECTION 1300 GALLON		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Jul 2020	6	136,890.00	Y		
2.29) CLEANER VACUUM SELF- PROPELLED AIRFIELD WITH BLOWER HI-SPEED		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	4	198,744.00	Y		
2.30) FLOODLIGHT SET ELECTRIC TRUCK/TRAILER MOUNTED NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	15,210.00	Y		
2.31) FLOODLIGHT SET TRAILER MOUNTED 5KW WITH 4 1KW LUM		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	6	15,210.00	Y		
2.32) GENERATOR SET SKID/ TRAILER MOUNTED 60-100 KW NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	4	101,238.00	Y		
2.33) GENERATOR SET SKID/ TRAILER MOUNTED 151-250 KW NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	4	101,400.00	Y		
2.34) GENERATOR SET SKID MOUNTED/TRAILER 60 KW COMMERCIAL		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	40,050.00	Y		
2.35) GENERATOR SET SKID/ TRAILER MOUNTED 500-750 KW NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	106,470.00	Y		
2.36) LOW SPEED VEHICLE 4 PASSENGER		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	4	12,168.00	Y		
2.37) LOW SPEED VEHICLE 2 PASSENGER WITH FLATBED		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	5	17,238.00	Y		
2.38) LOW SPEED VEHICLE CARGO VAN		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	18,145.00	Y		
2.39) LSV CARGO VAN W/LIFT GATE		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	20,280.00	Y		
2.40) LOW SPEED VEHICLE 2 PASSENGER		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	12,168.00	Y		
2.41) LSV (NEW) support		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	20,280.00	Y		

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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
2.42) LOW SPEED VEHICLE 2 PASSENGER SOLAR POWERED		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	30,420.00	Y		
2.43) LOW SPEED VEHICLE CARGO VAN SOLAR POWERED		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	30,420.00	Y		
2.44) LOW SPEED VEHICLE 6 PASSENGER VAN SOLAR POWERED		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	30,420.00	Y		
2.45) Non Solar SMV 4 DOOR SHORT BED with A/C		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	30,420.00	Y		
2.46) PLATFORM MAINTENANCE 60 FT		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	7	120,000.00	Y		
2.47) PLATFORM MAINTENANCE 80FT		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	151,500.00	Y		
2.48) PLATFORM MAINTENANCE 90 FT		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	141,960.00	Y		
2.49) PLATFORM MAINTENANCE 120 FT		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	180,000.00	Y		
2.50) MAN LIFT 60' REACH HYBRID DIESEL		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	111,540.00	Y		
2.51) MAN LIFT 80' REACH ARTICULATING BOOM		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	139,932.00	Y		
2.52) ROLLER ROAD VIBRATORY 3-18 TON NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	91,260.00	Y		
2.53) SWEEPER ROTARY SELF- PROPELLED WHEEL MOUNTED NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	5	184,392.00	Y		
2.54) WELDER ARC WHEEL- MOUNTED 300 AMP DC		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	60,840.00	Y		
3) CRANES												
3.2) CRANE HYD TRK MTD 40 TON (RESERVE FORCES)		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Nov 2019	2	570,193.00	Y		
3.3) CRANE HYD TRK MTD 40 TON		2019	Unknown / Unknown	C / TBD	DLA	Dec 2018	Dec 2018	4	603,000.00	Y		
3.4) CRANE WHEEL MOUNTED SWING CAB 4X4 15-40 TON		2019	Unknown / Unknown	C / TBD	DLA	Dec 2018	Dec 2019	2	379,000.00	Y		
3.8) EXCAVATOR CRAWLER MOUNTED HYDRAULIC OPERATED NONSTANDARD		2018	Unknown / Unknown	MIPR	GSA	Feb 2019	Jun 2019	1	363,000.00	Y		
3.9) CRANE TRUCK MOUNTED HYDRAULIC 91-100 TON		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Feb 2019	3	1,326K	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6024 / Construction & Maint Equip					Aggregated Items: Construction & Maint Equip				
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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.9) CRANE TRUCK MOUNTED HYDRAULIC 91-100 TON		2020	Unknown / Unknown	MIPR	DLA	Jan 2020	Oct 2020	4	1,380K	Y		
3.10) CRANE WHEEL MOUNTED SWING CAB 4X4 15-40 TON (30T)		2020	Unknown / Unknown	C / TBD	DLA	Jan 2020	Oct 2020	5	526,266.00	Y		
5) EXPEDITIONARY MATERIAL HANDLING EQUIPMENT												
5.1) FORKLIFT 11K DED PRT ROUGH TERRAIN (182011)		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jul 2019	3	190,000.00	Y		
5.2) FORKLIFT 11K DED SRT		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jul 2019	2	50,000.00	Y		
5.3) FORKLIFT 15K DED SRT		2018	Unknow / Unknown	MIPR	DLA	Feb 2019	Jul 2019	3	88,000.00	Y		
5.4) FORKLIFT 6K DED PRT		2019	Unknown / Unknown	MIPR	DLA	Feb 2019	Feb 2020	4	45,000.00	Y		
5.6) TRFK D 53K PRT (182051)		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jul 2019	3	886,160.00	Y		
5.7) Truck, Forklift, 10K DED (134010)		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jul 2019	4	126,988.00	Y		
5.8) TRFK D 53LB PRT		2019	Unknown / Unknown	C / TBD	DLA	Feb 2019	Feb 2019	1	535,500.00	Y		
5.8) TRFK D 53LB PRT		2020	Unknown / Unknown	C / TBD	DLA	Feb 2020	Feb 2020	1	546,210.00	Y		
5.9) TRFK D 12LB PRT		2019	Unknown / Unknown	C / TBD	DLA	Feb 2019	Feb 2020	1	178,068.00	Y		
5.10) Truck, Forklift, 12K RT (182012)		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jul 2019	22	185,000.00	Y		
5.11) TRFK D 20LB PRT		2019	Unknown / Unknown	C / TBD	DLA	Jan 2019	Jan 2020	7	290,700.00	Y		
5.12) TRFK 11K TELHDL		2020	Unknown / Unknown	C / TBD	** NO PCO **	Mar 2020	Mar 2020	31	87,060.00	Y		
5.15) Truck, Forklift, 25K DED (134025)		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jul 2019	2	130,000.00	Y		
5.16) Truck, Forklift, 6K DED (133006)		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jul 2019	4	38,160.00	Y		
5.17) Truck, Forklift, 6K LPG (130506)		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jul 2019	6	31,081.00	Y		
5.18) Truck, Forklift, 7-11K MMV (182011)		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Jul 2019	35	156,109.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6027 / Fire Fighting 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	28.904	5.388	17.959	21.142	0.785	21.927	15.434	15.494	15.808	16.124	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	28.904	5.388	17.959	21.142	0.785	21.927	15.434	15.494	15.808	16.124	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	28.904	5.388	17.959	21.142	0.785	21.927	15.434	15.494	15.808	16.124	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 budget line item funds procurement of aircraft fire/rescue trucks and structural/brush fire trucks. The aircraft fire/rescue trucks are used at Naval Air Stations for combating aircraft fires and rescue of aircraft crews. The trucks range in size from a small 11,000 pound Gross Vehicle Weight Rating (GVWR) pickup with utility body and twin engine fire fighting unit to the 68,000 pound GVWR crash truck which carries 3,000 gallons of water and 200 gallons of AFFF (foam). The structural/brush fire trucks are used at Naval activities in the same manner as municipal fire trucks in fighting structural and grass fires. The Navy's investment in ships, aircraft, facilities, personnel and equipment mandates having adequate fire protection. The requested funds are needed to comply with current National Fire Protection Association (NFPA) standards, sustain the Navy Firefighting Fleet and maintain an effective Firefighting Fleet Modernization Program consistent with findings identified in the DoD IG Report: D-2003-121 DoD Fire and Emergency Services Program. The Firefighting Fleet requires annual investments to ensure emergency response vehicles are within specified service life for safety, technological improvements, and maintenance sustainability. Highly reliable trucks are required as the emergency vehicles are key to success. Some older crash response trucks do not meet roll safety criteria, and require continued replacement to ensure safe working limits. As firefighter staffing is reduced and the all-hazards emergency response mission expands, the Navy's firefighting apparatus must evolve to provide additional capabilities for emergency medical services, rescue, confined space, hazardous materials, etc. The ability to save lives and protect property is essential in supporting the Navy's mission. The role of these trucks is to provide the Navy's response to structural fire emergencies, aircraft rescue fire fighting crashes, emergency medical services incidents, all hazards public safety, and emergency response to terrorism incidents, and weapons of mass destruction.												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6027 / Fire Fighting 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										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Fire Fighting Equipment	P-5a			- / 28.904	- / 5.388	- / 17.959	- / 21.142	- / 0.785	- / 21.927
P-40	Total Gross/Weapon System Cost				- / 28.904	- / 5.388	- / 17.959	- / 21.142	- / 0.785	- / 21.927
*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:

The funds requested in FY 2020 will provide for recapitalization requirements to support fielding a fleet of equipment within useful life expectancy.

FY20 funding increase will replace aged fire-fighting equipment that have exceeded its service life standards at various locations.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6027 / Fire Fighting Equipment								Aggregated Items Title: Fire Fighting Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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 FIRE/RESCUE																				
1.1) HAZARDOUS RESPONSE VEHICLE - HEAVY ^(†)	A		630,500.00	4	2.522	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) HAZARDOUS RESPONSE VEHICLE - MEDIUM ^(†)	A		456,400.00	5	2.282	-	-	-	474,295.00	1	0.474	486,821.00	10	4.868	-	-	-	486,821.00	10	4.868
1.3) HAZARDOUS RESPONSE VEHICLE - SMALL ^(†)	A		238,000.00	1	0.238	253,992.00	5	1.270	254,250.00	2	0.509	-	-	-	-	-	-	-	-	-
1.4) TRUCK A/ C CRASH FIRE FIGHTING RESCUE 1500 GALLON ^(†)	A		561,000.00	4	2.244	-	-	-	584,069.00	11	6.425	600,726.00	7	4.205	-	-	-	600,726.00	7	4.205
1.5) TRUCK A/ C CRASH FIRE FIGHTING RESCUE 3000 GALLON ^(†)	A		695,000.00	2	1.390	719,000.00	1	0.719	721,492.00	4	2.886	739,363.00	5	3.697	785,363.00	1	0.785	747,000.00	6	4.482
1.6) TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB ^(†)	A		251,000.00	3	0.753	-	-	-	260,911.00	2	0.522	266,169.00	4	1.065	-	-	-	266,169.00	4	1.065
1.7) TRUCK TWIN AGENT UNIT FOR FOAM AND WATER ^(†)	A		369,000.00	3	1.107	-	-	-	393,494.00	1	0.393	-	-	-	-	-	-	-	-	-
Subtotal: 1) AIRCRAFT FIRE/ RESCUE			-	-	10.536	-	-	1.989	-	-	11.209	-	-	13.835	-	-	0.785	-	-	14.620
2) BRUSH/STRUCTURAL																				
2.1) BRUSH/GRASS FIRE FIGHTING 250 GPM 500 GALLON ^(†)	A		593,625.00	8	4.749	-	-	-	628,941.00	2	1.258	-	-	-	-	-	-	-	-	-
2.2) TRUCK FIRE FIGHTING AERIAL 100 FT LADDER RIGHT HAND DRIVE ^(†)	A		1,088K	1	1.088	-	-	-	-	-	-	1,142K	1	1.142	-	-	-	1,142K	1	1.142
2.3) TRUCK FIRE FIGHTING AERIAL 75 FT LADDER ^(†)	A		738,000.00	6	4.428	-	-	-	770,473.00	1	0.770	-	-	-	-	-	-	-	-	-
2.4) TRUCK FIRE FIGHTING BRUSH/ GRASS 50 GPM 200 GALLON ^(†)	A		198,333.33	3	0.595	203,416.00	3	0.610	205,718.00	1	0.206	207,262.00	3	0.622	-	-	-	207,262.00	3	0.622

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6027 / Fire Fighting Equipment									Aggregated Items Title: Fire Fighting Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
2.5) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM ^(†)	A		369,142.86	7	2.584	381,000.00	1	0.381	384,456.00	9	3.460	399,127.00	8	3.193	-	-	-	399,127.00	8	3.193
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER ^(†)	A		337,000.00	6	2.022	348,034.00	3	1.044	351,915.00	3	1.056	361,058.00	3	1.083	-	-	-	361,058.00	3	1.083
2.7) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM RIGHT HAND DRIVE ^(†)	A		378,666.67	6	2.272	-	-	-	-	-	-	422,234.00	3	1.267	-	-	-	422,234.00	3	1.267
2.8) TRUCK WATER TANKER ^(†)	A		630,000.00	1	0.630	682,000.00	2	1.364	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) BRUSH/STRUCTURAL			-	-	18.368	-	-	3.399	-	-	6.750	-	-	7.307	-	-	-	-	-	7.307
Total			-	-	28.904	-	-	5.388	-	-	17.959	-	-	21.142	-	-	0.785	-	-	21.927

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 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6027 / Fire Fighting Equipment					Aggregated Items: Fire Fighting 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) AIRCRAFT FIRE/RESCUE												
1.1) HAZARDOUS RESPONSE VEHICLE - HEAVY		2016	KOVATCH / NESQUEHONING, PA	MIPR	DSCP	Sep 2018	Aug 2019	4	630,513.00	Y		
1.2) HAZARDOUS RESPONSE VEHICLE - MEDIUM		2016	KOVATCH / NESQUEHONING, PA	MIPR	DSCP	Jul 2017	Apr 2018	4	454,591.00	Y		
1.2) HAZARDOUS RESPONSE VEHICLE - MEDIUM		2017	KOVATCH / NESQUEHONING, PA	MIPR	DSCP	Sep 2018	Jun 2019	1	463,683.00	Y		
1.2) HAZARDOUS RESPONSE VEHICLE - MEDIUM		2019	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2019	Mar 2019	1	474,295.00	Y		
1.2) HAZARDOUS RESPONSE VEHICLE - MEDIUM		2020	UNKNOWN / UNKNOWN	MIPR	DSCP	Mar 2020	Mar 2020	10	486,821.00	Y		
1.3) HAZARDOUS RESPONSE VEHICLE - SMALL		2016	KOVATCH / NESQUEHONING, PA	MIPR	DSCP	Sep 2016	Sep 2017	1	238,362.00	Y		
1.3) HAZARDOUS RESPONSE VEHICLE - SMALL		2018	KOVATCH / NESQUEHONING, PA	MIPR	DSCP	Oct 2017	Oct 2018	4	253,992.00	Y		
1.3) HAZARDOUS RESPONSE VEHICLE - SMALL	✓	2018	KOVATCH / NESQUEHONING, PA	MIPR	DSCP	Oct 2017	Oct 2018	1	253,992.00	Y		
1.3) HAZARDOUS RESPONSE VEHICLE - SMALL	✓	2019	KOVATCH / NESQUEHONING, PA	MIPR	DSCP	Oct 2018	Oct 2019	2	254,250.00	Y		
1.4) TRUCK A/C CRASH FIRE FIGHTING RESCUE 1500 GALLON		2017	E-One, Inc DBA / Ocala, FL	MIPR	DSCP	Sep 2017	Nov 2018	4	560,941.00	Y		
1.4) TRUCK A/C CRASH FIRE FIGHTING RESCUE 1500 GALLON		2019	UNKNOWN / UNKNOWN	MIPR	DSCP	May 2019	May 2019	11	584,069.00	Y		
1.4) TRUCK A/C CRASH FIRE FIGHTING RESCUE 1500 GALLON		2020	UNKNOWN / UNKNOWN	MIPR	DSCP	Jan 2020	Jan 2020	7	600,726.00	Y		
1.5) TRUCK A/C CRASH FIRE FIGHTING RESCUE 3000 GALLON		2016	OSHKOSH / Oshkosh, WI	MIPR	DSCP	Dec 2015	Nov 2016	2	694,842.00	Y		
1.5) TRUCK A/C CRASH FIRE FIGHTING RESCUE 3000 GALLON	✓	2018	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Oct 2018	Sep 2019	1	719,000.00	Y		
1.5) TRUCK A/C CRASH FIRE FIGHTING RESCUE 3000 GALLON		2019	UNKNOWN / UNKNOWN	MIPR	DSCP	Feb 2019	Feb 2019	4	721,492.00	Y		
1.5) TRUCK A/C CRASH FIRE FIGHTING RESCUE 3000 GALLON	✓	2020	OSHKOSH / Oshkosh, WI	C / TBD	** NO PCO **	Oct 2019	Oct 2019	1	785,363.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6027 / Fire Fighting Equipment						Aggregated Items: Fire Fighting 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
1.5) TRUCK A/C CRASH FIRE FIGHTING RESCUE 3000 GALLON		2020	UNKNOWN / UNKNOWN	MIPR	DSCP	Oct 2019	Oct 2019	5	739,363.00	Y		
1.6) TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB		2016	Pierce Mfg, Inc / Appleton, WI	MIPR	GSA	Sep 2018	Jul 2019	1	247,747.00	Y		
1.6) TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB		2017	Pierce Mfg, Inc / Appleton, WI	MIPR	GSA	Oct 2017	Aug 2018	2	252,702.00	Y		
1.6) TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB		2019	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2019	Mar 2019	1	260,911.00	Y		
1.6) TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB	✓	2019	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2019	Mar 2019	1	260,911.00	Y		
1.6) TRUCK A/C FIRE FIGHTING RESCUE 6 MAN CAB		2020	UNKNOWN / UNKNOWN	MIPR	GSA	Oct 2019	Oct 2019	4	266,169.00	Y		
1.7) TRUCK TWIN AGENT UNIT FOR FOAM AND WATER		2017	Pierce Mfg, Inc / Appleton, WI	MIPR	GSA	Oct 2018	Oct 2019	3	368,952.00	Y		
1.7) TRUCK TWIN AGENT UNIT FOR FOAM AND WATER		2019	UNKNOWN / UNKNOWN	MIPR	GSA	Mar 2019	Mar 2019	1	393,494.00	Y		
2) BRUSH/STRUCTURAL												
2.1) BRUSH/GRASS FIRE FIGHTING 250 GPM 500 GALLON		2016	Pierce Mfg, Inc / Appleton, WI	MIPR	GSA	Jul 2016	Jul 2017	4	587,766.00	Y		
2.1) BRUSH/GRASS FIRE FIGHTING 250 GPM 500 GALLON		2017	Pierce Mfg, Inc / Appleton, WI	MIPR	GSA	Aug 2017	Aug 2018	4	599,521.00	Y		
2.1) BRUSH/GRASS FIRE FIGHTING 250 GPM 500 GALLON		2019	UNKNOWN / UNKNOWN	C / TBD	GSA	Mar 2019	Mar 2020	2	628,941.00	Y		
2.2) TRUCK FIRE FIGHTING AERIAL 100 FT LADDER RIGHT HAND DRIVE		2016	Pierce Mfg, Inc / Appleton, WI	MIPR	FEAD Yokosuka	Sep 2018	Sep 2019	1	1,088K	Y		
2.2) TRUCK FIRE FIGHTING AERIAL 100 FT LADDER RIGHT HAND DRIVE		2020	UNKNOWN / UNKNOWN	MIPR	FEAD Yokosuka	Feb 2020	Feb 2020	1	1,142K	Y		
2.3) TRUCK FIRE FIGHTING AERIAL 75 FT LADDER		2016	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Sep 2017	Sep 2018	2	729,803.00	Y		
2.3) TRUCK FIRE FIGHTING AERIAL 75 FT LADDER		2017	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Sep 2017	Sep 2018	4	741,899.00	Y		
2.3) TRUCK FIRE FIGHTING AERIAL 75 FT LADDER		2019	UNKNOWN / UNKNOWN	MIPR	DSCP	Feb 2019	Feb 2019	1	770,473.00	Y		
2.4) TRUCK FIRE FIGHTING BRUSH/GRASS 50 GPM 200 GALLON		2017	Pierce Mfg, Inc / Appleton, WI	MIPR	GSA	Oct 2018	Oct 2019	3	198,447.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6027 / Fire Fighting Equipment				Aggregated Items: Fire Fighting 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
2.4) TRUCK FIRE FIGHTING BRUSH/GRASS 50 GPM 200 GALLON		2018	Pierce Mfg, Inc / Appleton, WI	MIPR	GSA	Oct 2018	Oct 2019	3	203,416.00	Y		
2.4) TRUCK FIRE FIGHTING BRUSH/GRASS 50 GPM 200 GALLON		2019	Unknown / Unknown	MIPR	GSA	Mar 2019	Mar 2019	1	205,718.00	Y		
2.4) TRUCK FIRE FIGHTING BRUSH/GRASS 50 GPM 200 GALLON		2020	Unknown / Unknown	MIPR	GSA	Oct 2019	Oct 2019	3	207,262.00	Y		
2.5) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM		2016	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	May 2016	May 2017	4	365,960.00	Y		
2.5) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM		2017	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Sep 2017	Sep 2018	3	373,279.00	Y		
2.5) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM	✓	2018	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Feb 2019	Feb 2020	1	381,000.00	Y		
2.5) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM		2019	UNKNOWN / UNKNOWN	MIPR	DSCP	Dec 2019	Dec 2019	9	384,456.00	Y		
2.5) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM		2020	UNKNOWN / UNKNOWN	MIPR	DSCP	Feb 2020	Feb 2020	8	399,127.00	Y		
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER		2016	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Sep 2018	Sep 2019	3	333,561.00	Y		
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER		2017	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Oct 2018	Oct 2019	3	340,232.00	Y		
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER		2018	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Nov 2018	Nov 2019	2	348,034.00	Y		
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER	✓	2018	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Nov 2018	Nov 2019	1	348,034.00	Y		
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER		2019	Unknown / Unknown	MIPR	DSCP	Feb 2020	Feb 2020	3	351,915.00	Y		
2.6) TRUCK FIRE FIGHTING AGENT RESUPPLIER WATER		2020	Unknown / Unknown	C / TBD	DSCP	Feb 2020	Feb 2020	3	361,058.00	Y		
2.7) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM RIGHT HAND DRIVE		2016	Pierce Mfg, Inc / Appleton, WI	C / FP	FEAD Yokosuka	Jun 2016	Jun 2017	3	374,993.00	Y		
2.7) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM RIGHT HAND DRIVE		2017	Pierce Mfg, Inc / Appleton, WI	C / FP	FEAD Yokosuka	Sep 2017	Sep 2018	3	382,492.00	Y		
2.7) TRUCK FIRE STRUCTURAL PUMPER 1250 GPM RIGHT HAND DRIVE		2020	Unknown / Unknown	C / FP	FEAD Yokosuka	Oct 2019	Oct 2019	3	422,234.00	Y		
2.8) TRUCK WATER TANKER	✓	2017	Pierce Mfg, Inc / Appleton, WI	MIPR	DSCP	Oct 2018	Oct 2019	1	630,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6027 / Fire Fighting Equipment						Aggregated Items: Fire Fighting 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
2.8) TRUCK WATER TANKER		2018	UNKNOWN / UNKNOWN	MIPR	DSCP	Feb 2019	Feb 2019	1	725,000.00	Y		
2.8) TRUCK WATER TANKER	✓	2018	UNKNOWN / UNKNOWN	MIPR	DSCP	Feb 2019	Feb 2020	1	639,000.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6028 / Tactical Vehicles					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	17.334	22.035	27.214	33.432	0.000	33.432	23.037	24.068	24.535	24.996	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	17.334	22.035	27.214	33.432	0.000	33.432	23.037	24.068	24.535	24.996	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	17.334	22.035	27.214	33.432	0.000	33.432	23.037	24.068	24.535	24.996	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 budget line item funds procurement of light and medium duty tactical equipment used primarily by the Naval Expeditionary Combat Command (NECC), Naval Special Warfare (NSW), Maritime Prepositioning Force (MPF), Naval Beach Group (NBG), and other special operating units. This line also includes Force Protection requirements funding for Tactical Vehicles. Light duty tactical vehicles (HMMWVs/LSSVs) are used by NECC, MPF, NBG, and NSW US Navy SEALs for the movement of personnel and equipment. Medium tactical(MTVR/MRAPs) trucks are required for rapid deployment of containerized table of allowance material and have air transport, water fording, and enhanced combat mobility capability. Medium tactical cargo trucks are used for material/equipment movement and delivery. Medium tactical dump trucks are used to support combat construction of airfields, landing zones, road battle damage repair and rapid runway repair. This budget line also funds procurement of Joint Light Tactical Vehicle (JLTV) Heavy Gun variant for US Navy SEAL combat operations within IED rich environments as well as the General Purpose vehicle for Naval Combat Service Support (CSS). The JLTV has been identified as the primary solution for protection and performance over the HMMWV. The existing HMMWV vehicle frame is not sufficient protection for use by NSW in combat roles in areas with an IED or heavy weapons threat. NSW is moving to the JLTV as a combat vehicle which will address the requirement of a light duty tactical vehicle with air transport, water fording, and enhanced combat mobility capability while also providing the required IED protection to NSW Operators. Force Protection funds are used to modify both light and medium tactical vehicles with the necessary upgrades to carry out both primary and secondary missions in a combat environment. Planned modifications include making baseline MTVR models Ready To Accept Armor (RTAA) and integrating vehicles with installations kits for Command, Control, Computers, Communications, Intelligence, Surveillance, and Reconnaissance (C4ISR) equipment and Counter RCIED (Radio-Controlled Improvised Explosive Device) Electronic Warfare systems. This program includes funds for the procurement of HMMWVs to guard and protect the TRIDENT II (D5) missile while the missile is in storage, being handled, or in a movement convoy to and from the waterfront at the Strategic Weapons Facility, Atlantic (SWFLANT) in Kings Bay, GA and the Strategic Weapons Facility, Pacific (SWFPAC) in Bangor, WA. Equipment is used in support of Strategic Systems Programs (SSP) mission of securing the Limited Area and provides for security vehicles to replace existing (aging) vehicles used in roving patrols of the Limited Area and to support TRIDENT II (D5) missile movement convoys. This program includes funds for the procurement of HMMWVs to guard and protect the TRIDENT II (D5) missile while the missile is in storage, being handled, or in a movement convoy to and from the waterfront at the Strategic Weapons Facility, Atlantic (SWFLANT) in Kings Bay, GA and the Strategic Weapons Facility, Pacific (SWFPAC) in Bangor, WA. Equipment is used in support of Strategic Systems Programs (SSP) mission of securing the Limited Area and provides for security vehicles to replace existing (aging) vehicles used in roving patrols of the Limited Area and to support TRIDENT II (D5) missile movement convoys.												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6028 / Tactical Vehicles				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Tactical Vehicles	P-5a			- / 17.334	- / 22.035	- / 27.214	- / 33.432	- / -	- / 33.432
P-40	Total Gross/Weapon System Cost				- / 17.334	- / 22.035	- / 27.214	- / 33.432	- / 0.000	- / 33.432
*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: The funds requested in FY20 will provide for, but not limited to: - In FY20 Naval Special Warfare (NSW) begins the procurement of Joint Light Tactical Vehicle (JLTV) not only for Navy Combat Service Support (CSS) elements but also for US Navy SEAL combat operations. These materiel assets support the SEALs core mission requirements and are essential to the readiness and battlefield effectiveness of these Special Forces. The increase in FY20 reflects the start of resourcing this updated requirement to include both combat and training assets of the Heavy Gun variant as part of a multi-year plan to properly outfit both Naval CSS and US SEAL Teams, enabling maximum lethality in the Near-Peer fight as well as in Counter-Violent Extremist Organizations (VEOs). Further details are available at a higher classification. - Joint Light Tactical Vehicle (JLTV) for US Navy SEAL combat operations in forward deployed contingency locations. These materiel assets support the Seals core mission requirements and are essential to the readiness and battlefield effectiveness of these special forces in winning the current fight against ISIS and other extremist elements. The additional \$5M will procure additional JLTVs. - LSSVs which have surpassed their life expectancy and will be deployed to the Expeditionary Medical Forces, Explosive Ordnance Disposal Units, Expeditionary Mine Countermeasures (ExMCM), and Coastal Riverine Units. LSSV's are at end of service life and are required to be recapitalized in FY19 to meet both Expeditionary Medical rotation schedule and Combat Command mission requirements. The Expeditionary Medical Facility (EMF) Tables of Allowance are forward deployed and only be accessed once every 5 years. The LSSV procurements are aligned to meet the unit rotation schedule. - MTVRs will be procured to initially outfit the newly established Expeditionary MCM (ExMCM) Company. There are a total of 16 Companies, 8 on the west coast and 8 on the east coast. These MTVRs will be used to transport and deploy ExMCM equipment and capabilities to various locations. The ExMCM Company was initially conceived in 2012 as a response to a Commander, U.S. Central Command (CENTCOM) Joint Urgent Operational Need for increased mine countermeasures (MCM) capacity at a time of heightened tensions in the CENTCOM Area of Responsibility (AOR). Utilizing special Office of Secretary of Defense (OSD) Fastlane acquisition authorities, the U.S. Navy Explosive Ordnance Disposal (EOD) community rapidly fielded a force to employ newly acquired unmanned underwater vehicles (UUVs) in concert with legacy MCM platforms and assets, many of them nearing the end of their projected service life. The UUVs, previously commercial-off-the-shelf (COTS) items, were adapted and re-purposed for military use. These particular UUVs eventually became the MK18 UUV Family of Systems. Force Protection: Ready to Accept Armor (RTAA): Funding is for the efforts involved in providing RTAA modifications to existing Medium Tactical Vehicle Replacements (MTVR's), which will be used in support of the EOD Expeditionary Mine Counter Measures (Ex-MCM) mission. C4ISR: Funding will provide for integration of installation kits for C4ISR and CREW equipment into multiple tactical vehicle platforms. Outfitting of this gear is a lesson learned from OIF/OEF when the Expeditionary Forces lacked means to communicate across vehicles within the same convoy, capability to identify friendly forces, and to identify and defeat Improvised Explosive Devices (IEDs). Lacking these capabilities created unnecessary life-safety risks.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6028 / Tactical Vehicles							Aggregated Items Title: Tactical Vehicles						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) Light Trucks																				
1.1) JOINT LIGHT TACTICAL VEHICLE (JLTV) ^{(1)(†)}	A		-	-	-	420,000.00	3	1.260	428,400.00	8	3.427	436,968.00	22	9.613	-	-	-	436,968.00	22	9.613
1.2) LSSV CARGO CREWCAB 4X4 TROOP SEATS ^(†)	A		53,752.81	89	4.784	51,000.00	32	1.632	52,200.00	52	2.714	53,060.00	71	3.767	-	-	-	53,060.00	71	3.767
1.3) LSSV MAINTENANCE UTILITY CREWCAB 4X4 ^(†)	A		73,500.00	2	0.147	-	-	-	75,000.00	1	0.075	75,480.00	6	0.453	-	-	-	75,480.00	6	0.453
1.4) LSSV TRUCK LITTER CARRIER 4X4 TWO DOOR DIESEL ^(†)	A		152,000.00	10	1.520	166,464.00	10	1.665	-	-	-	173,189.00	5	0.866	-	-	-	173,189.00	5	0.866
1.5) TRUCK, UP-ARMORED HMMWV, 4X4 ^(†)	A		-	-	-	-	-	-	194,500.00	2	0.389	198,000.00	2	0.396	-	-	-	198,000.00	2	0.396
Subtotal: 1) Light Trucks			-	-	6.451	-	-	4.557	-	-	6.605	-	-	15.095	-	-	-	-	-	15.095
2) Medium Trucks																				
2.1) TRUCK CARGO 7 TON MTVR AMK25A1 W/W, SB, RH ^(†)	A		-	-	-	-	-	-	-	-	-	390,299.00	14	5.464	-	-	-	390,299.00	14	5.464
Subtotal: 2) Medium Trucks			-	-	0.000	-	-	-	-	-	-	-	-	5.464	-	-	-	-	-	5.464
3) ILS Support Cost																				
3.1) ILS Support Cost	A		-	-	0.637	-	-	0.218	-	-	-	-	-	0.272	-	-	-	-	-	0.272
Subtotal: 3) ILS Support Cost			-	-	0.637	-	-	0.218	-	-	-	-	-	0.272	-	-	-	-	-	0.272
4) Force Protection																				
4.1) Ready to Accept Armor (RTAA) modifications	A		-	-	0.499	-	-	4.937	-	-	4.258	-	-	2.252	-	-	-	-	-	2.252
4.2) Modifications to integrate communications equipment	A		-	-	9.297	-	-	9.987	-	-	7.565	-	-	8.749	-	-	-	-	-	8.749
4.3) Modifications to integrate communications equipment (RESERVE FORCES)	A		-	-	0.450	-	-	-	-	-	1.488	-	-	-	-	-	-	-	-	-
4.4) MRAP ECP	A		-	-	-	-	-	2.336	-	-	7.298	-	-	1.600	-	-	-	-	-	1.600
Subtotal: 4) Force Protection			-	-	10.246	-	-	17.260	-	-	20.609	-	-	12.601	-	-	-	-	-	12.601
Total			-	-	17.334	-	-	22.035	-	-	27.214	-	-	33.432	-	-	-	-	-	33.432

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1	P-1 Line Item Number / Title: 6028 / Tactical Vehicles	Aggregated Items Title: Tactical Vehicles

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) JLTV unit cost is coordinated with the Joint Program Office and reflects the latest contract estimates. US Navy JLTV unit cost incorporates a Navy specific configuration reflecting the addition of increased quantity of Heavy Gun Variant as well as an 'All-Up' pricing for option kits and associated engineering, integration and support costs. Due to these factors US Navy JLTV unit pricing will reflect in a difference of unit cost compared to the USMC.

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6028 / Tactical Vehicles					Aggregated Items: Tactical Vehicles			
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) Light Trucks												
1.1) JOINT LIGHT TACTICAL VEHICLE (JLTV) ⁽¹⁾		2018	Oshkosh Defense LLC / Oshkosh	C / FFP	TACOM	Oct 2018	Aug 2019	3	420,000.00	Y		Feb 2014
1.1) JOINT LIGHT TACTICAL VEHICLE (JLTV) ⁽¹⁾		2019	UNKNOWN / Unknown	C / FFP	TACOM	Feb 2019	Feb 2019	8	428,400.00	Y		
1.1) JOINT LIGHT TACTICAL VEHICLE (JLTV) ⁽¹⁾		2020	UNKNOWN / Unknown	C / FFP	TACOM	Dec 2019	Dec 2019	22	436,968.00	Y		
1.2) LSSV CARGO CREWCAB 4X4 TROOP SEATS		2016	GSA Federal Supply / Norfolk, VA	MIPR	GSA	May 2016	Aug 2016	25	50,000.00	Y		
1.2) LSSV CARGO CREWCAB 4X4 TROOP SEATS		2017	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Oct 2017	Jan 2018	64	55,214.00	Y		
1.2) LSSV CARGO CREWCAB 4X4 TROOP SEATS		2018	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Feb 2018	May 2018	32	51,000.00	Y		
1.2) LSSV CARGO CREWCAB 4X4 TROOP SEATS		2019	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Oct 2018	Jan 2019	52	52,200.00	Y		
1.2) LSSV CARGO CREWCAB 4X4 TROOP SEATS		2020	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Oct 2019	Jan 2020	71	53,060.00	Y		
1.3) LSSV MAINTENANCE UTILITY CREWCAB 4X4		2017	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Jan 2017	May 2017	2	73,275.00	Y		
1.3) LSSV MAINTENANCE UTILITY CREWCAB 4X4		2019	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Oct 2018	Oct 2018	1	75,000.00	Y		
1.3) LSSV MAINTENANCE UTILITY CREWCAB 4X4		2020	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Oct 2019	Oct 2019	6	75,480.00	Y		
1.4) LSSV TRUCK LITTER CARRIER 4X4 TWO DOOR DIESEL		2017	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Oct 2017	Feb 2018	10	152,000.00	Y		
1.4) LSSV TRUCK LITTER CARRIER 4X4 TWO DOOR DIESEL		2018	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Feb 2018	Jun 2018	10	166,464.00	Y		
1.4) LSSV TRUCK LITTER CARRIER 4X4 TWO DOOR DIESEL		2020	GSA Federal Supply / Norfolk, VA	MIPR	GSA	Oct 2019	Feb 2020	5	173,189.00	Y		
1.5) TRUCK, UP-ARMORED HMMWV, 4X4		2019	GSA / GSA	MIPR	GSA	Jan 2019	Oct 2019	2	194,500.00	Y		
1.5) TRUCK, UP-ARMORED HMMWV, 4X4		2020	GSA / GSA	MIPR	GSA	Jan 2020	Oct 2020	2	198,000.00	Y		
2) Medium Trucks												

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6028 / Tactical Vehicles				Aggregated Items: Tactical Vehicles				
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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1) TRUCK CARGO 7 TON MTVR AMK25A1 W/W, SB, RH		2020	Unknown / Unknown	C / TBD	** NO PCO **	Mar 2020	Mar 2020	14	390,299.00	N		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6033 / Amphibious 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	45.455	12.162	6.176	0.000	0.000	0.000	0.000	0.000	12.046	12.287	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	45.455	12.162	6.176	0.000	0.000	0.000	0.000	0.000	12.046	12.287	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	45.455	12.162	6.176	0.000	0.000	0.000	0.000	0.000	12.046	12.287	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>)	-	-	-	0.132	-	0.132	0.016	0.011	0.038	0.411	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This budget line item funds the procurement of equipment to support Navy-Marine Corps amphibious operations, Logistics Over the Shore, and Joint Logistics Over the Shore operations. This provides the ability to execute the ship to shore transfer of vehicles, dry cargo, and liquid cargo, delivered over bare beaches, as well as through improved and semi-improved port facilities.

This program is a critical component that enables the Maritime Prepositioning Force (MPF) concept. It is designed and intended to interface with MPF vessels during initial combat operations (Assault Echelon and immediate sustainment of the AE force) and then with Roll-On/Roll-Off, container, dry cargo, and liquid cargo ships to provide war material to the Assault Follow-On Echelon (AFOE). The equipment is employed by the Naval Support Element (Naval Beach Groups) and the Amphibious Ready Group-Marine Expeditionary Unit (ARG/MEU) team.

The Improved Navy Lighterage System (INLS) consists of Causeway Ferries (CF), Warping Tugs (WT), a Roll-on/Roll-off Discharge Facility (RRDF), and a Floating Causeway (FC) pier. All of these systems work in concert to deliver critical war material from MPF and AFOE ships, across a bare beach, and into the hands of warfighters. The INLS achieved IOC in FY06 and FOC in FY11, requiring sustainment efforts to maintain availability for operation in the face of aging components and technical obsolescence of the various control systems. The Sealift Support Program Office is providing lifecycle support to the INLS program as well as other specialized equipment and vehicles that directly participate in and contribute to amphibious operations. Specific to this lifecycle support mission, an improvement is being made to the waterjet system to extend the lifespan of critical components that otherwise would render the craft non-mission capable if the component were to fail, necessitating a significant and time-consuming depot-level repair.

The Amphibious Surf Capable Vehicle (ASCV) will replace the 1960s era, Army procured Lighter, Amphibious Resupply, Cargo 5-ton (LARC-V). It is planned as a low cost replacement of the operational capabilities delivered by the LARC-V. The ASCV will support the full range of military operations, as identified in each unit's Required Operational Capabilities and Prospective Operating Environment (ROC/POE), for Beachmaster Units (BMU) ONE and TWO, Naval Beach Unit (NBU) SEVEN, and Underwater Construction Team (UCT) ONE and TWO.

[P5 / LARC REPLACEMENT]: Amphibious Surf Capable Vehicle (ASCV) has been approved as an ACAT IV (T) program and is still in Development at the Milestone A Decision. Unit price info is based on parametric estimates as of April 2017 and will be refined as the development matures through the RDTE(N) stages.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6033 / Amphibious 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										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Amphibious Equipment	P-5a, P-21			- / 45.455	- / 12.162	- / 6.176	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / 45.455	- / 12.162	- / 6.176	- / 0.000	- / 0.000	- / 0.000
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: There are no funds budgeted in FY 2020. Outfitting of the Water Quality System (WQS) modification for all modules of the Improved Navy Lighterage System (INLS) will be completed in FY19. The next Amphibious investment requirement is replacement of the LARCV. This new replacement system, Amphibious Surf Capable Vehicle, has just completed Milestone A. Research and development phases are planned until 2022, yielding the next required investment in P-1 Line 6033 to be 2023.										

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Exhibit P-5, Cost Analysis: PB 2020 Navy											Date: March 2019							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6033 / Amphibious Equipment						Item Number / Title [DODIC]: 1 / Amphibious Equipment						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				45.455		12.162		6.176		0.000		0.000		0.000				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				45.455		12.162		6.176		0.000		0.000		0.000				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				45.455		12.162		6.176		0.000		0.000		0.000				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		0.132		-		0.132				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements		Prior Years		FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
Hardware - OTHER AMPHIB SPECIALIZED EQUIPMENT Cost																		
Recurring Cost																		
1.1.3) INLS MODULES ^(†) (1)	958,000.00	46	44.068	1,010K	12	12.126	1,235K	5	6.176	-	-	-	-	-	-	-	-	-
1.1.4) INLS ACQUISITION LOGISTICS COST	-	-	1.387	-	-	0.036	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	45.455	-	-	12.162	-	-	6.176	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - OTHER AMPHIB SPECIALIZED EQUIPMENT Cost	-	-	45.455	-	-	12.162	-	-	6.176	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	45.455	-	-	12.162	-	-	6.176	-	-	0.000	-	-	0.000	-	-	0.000
(†) indicates the presence of a P-5a																		
Footnotes:																		
(1) The cost growth from FY18 to FY19 is due to 3 factors: (1)The final 6 craft will be modified at an alternate location to with a higher locality cost (Coronado, CA), (2)these final craft were the LRIP craft and are different configuration which will require some engineering effort, (3) the current contract will reach the end of the period of performance in FY18, yielding the requirement to re-compete the contract in FY19.																		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6033 / Amphibious Equipment					Item Number / Title [DODIC]: 1 / Amphibious Equipment			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.3) INLS MODULES ^(†)		2014	Wartsila Defense, Inc / Houston, TX	C / FP	NAVFAC	Mar 2014	Sep 2014	6	913,333.33	Y		
1.1.3) INLS MODULES ^(†)		2015	Wartsila Defense, Inc / Houston, TX	C / FP	NAVFAC	Mar 2015	Sep 2015	8	936,000.00	Y		
1.1.3) INLS MODULES ^(†)		2016	Wartsila Defense, Inc / Houston, TX	C / FP	NAVFAC	Feb 2016	Aug 2016	12	1,027K	Y		
1.1.3) INLS MODULES ^(†)		2017	Wartsila Defense, Inc / Houston, TX	C / FP	NAVFAC	Apr 2017	Oct 2017	8	959,500.00	Y		
1.1.3) INLS MODULES ^(†)		2018	Wartsila Defense, Inc / Houston, TX	C / FP	NAVFAC	Mar 2018	Sep 2018	12	1,010K	Y		
1.1.3) INLS MODULES ^(†)		2019 ⁽²⁾	Unknown / Unknown	C / TBD	NAVFAC	Mar 2019	Mar 2019	5	1,235K	Y		

^(†) indicates the presence of a P-21

Footnotes:

⁽²⁾ Current contract Period of Performance ends in 2018. Contract will have to be re-competed for FY2019.

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Exhibit P-21, Production Schedule: PB 2020 Navy																				Date: March 2019															
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1										P-1 Line Item Number / Title: 6033 / Amphibious Equipment										Item Number / Title [DODIC]: 1 / Amphibious Equipment															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2014										Fiscal Year 2015													BALANCE					
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				
1.1.3) INLS MODULES ⁽¹⁾																																			
Prior Years Deliveries: 12																																			
	1	2014	NAVY	6	0	6						A -	-	-	-	-	-	5	1												0				
	1	2015	NAVY	8	0	8																					A -	-	-	-	-	-	-	2	6
	1	2016	NAVY	12	0	12																									12				
	1	2017	NAVY	8	0	8																									8				
	1	2018	NAVY	12	0	12																									12				
	2	2019	NAVY	5	0	5	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	5				

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Exhibit P-21, Production Schedule: PB 2020 Navy																			Date: March 2019																	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1									P-1 Line Item Number / Title: 6033 / Amphibious Equipment										Item Number / Title [DODIC]: 1 / Amphibious Equipment																	
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2016										Fiscal Year 2017										BALANCE									
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016										Calendar Year 2017																			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP					
1.1.3) INLS MODULES ⁽¹⁾																																				
Prior Years Deliveries: 12																																				
	1	2014	NAVY	6	6	0																												0		
	1	2015	NAVY	8	2	6	2	2	2																										0	
	1	2016	NAVY	12	0	12					A -	-	-	-	-	-	2	2	2	2	2	2											0			
	1	2017	NAVY	8	0	8																A -	-	-	-	-	-	-								8
	1	2018	NAVY	12	0	12																												12		
	2	2019	NAVY	5	0	5																												5		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						

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LI 6033 - Amphibious Equipment
Navy

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Exhibit P-21, Production Schedule: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1					P-1 Line Item Number / Title: 6033 / Amphibious Equipment				Item Number / Title [DODIC]: 1 / Amphibious Equipment			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2020	1-8-5 For 2020	MAX For 2020	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	Wartsila Defense, Inc - Houston, TX			TBD	0	0	6	6	0	0	0	0
2	Unknown - Unknown			TBD	0	0	0	0	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).

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6058 / Pollution Control 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5.339	2.748	2.713	2.633	0.000	2.633	2.677	2.726	2.784	2.839	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5.339	2.748	2.713	2.633	0.000	2.633	2.677	2.726	2.784	2.839	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5.339	2.748	2.713	2.633	0.000	2.633	2.677	2.726	2.784	2.839	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 Navy Ashore Pollution Control Equipment program funds hazardous substance spill containment and recovery systems. Funding requirements for the Navy's oil spill program include procurement of oil spill containment booms and related deployment equipment. After initial containment with boom, shore activities can efficiently collect spilled oil with vacuum trucks. This equipment will enable the Navy to meet the requirements established by the EPA in the National Contingency Plan which requires rapid and effective response to oil spills. The revised National Spill Contingency Plan mandates that the DOD and the Navy assume responsibility for their own oil and hazardous substance spills. These broad responsibilities require the Navy to maintain sufficient spill response equipment for the Navy activities worldwide, such as oil spill containment systems and recovery systems. The severe oil spills in Alaska, California and the Gulf of Mexico have increased the public's sensitivity to releases of oil into the environment.												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy							Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment					P-1 Line Item Number / Title: 6058 / Pollution Control 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										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Pollution Control Equipment	P-5a			- / 5.339	- / 2.748	- / 2.713	- / 2.633	- / -	- / 2.633
P-40	Total Gross/Weapon System Cost				- / 5.339	- / 2.748	- / 2.713	- / 2.633	- / 0.000	- / 2.633
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:
 Additional procurement of shore based equipment in FY20 is required to improve mission readiness at Naval Installations. Without additional procurement, there is increased maintenance costs to extend equipment service life and readiness is impacted during increased maintenance cycle times.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6058 / Pollution Control Equipment							Aggregated Items Title: Pollution Control Equipment						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) POLLUTION CONTROL EQUIPMENT																				
1.1) RESPONSE BOOM ^(†)	A		11,240.57	212	2.383	11,656.57	99	1.154	11,868.69	99	1.175	12,104.17	96	1.162	-	-	-	12,104.17	96	1.162
1.2) PERMANENT BOOM ^(†)	A		20,280.00	75	1.521	21,031.25	32	0.673	21,424.24	33	0.707	21,843.75	32	0.699	-	-	-	21,843.75	32	0.699
1.3) BOOM SUPPORT EQUIPMENT ^(†)	A		17,285.71	42	0.726	17,954.55	22	0.395	18,272.73	22	0.402	18,611.11	18	0.335	-	-	-	18,611.11	18	0.335
1.4) VACUUM TRUCK ^(†)	A		101,285.71	7	0.709	105,200.00	5	0.526	107,348.60	4	0.429	109,250.00	4	0.437	-	-	-	109,250.00	4	0.437
Subtotal: 1) POLLUTION CONTROL EQUIPMENT			-	-	5.339	-	-	2.748	-	-	2.713	-	-	2.633	-	-	-	-	-	2.633
Total			-	-	5.339	-	-	2.748	-	-	2.713	-	-	2.633	-	-	-	-	-	2.633

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

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1				P-1 Line Item Number / Title: 6058 / Pollution Control Equipment					Aggregated Items: Pollution Control 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) POLLUTION CONTROL EQUIPMENT												
1.1) RESPONSE BOOM		2016	DESMI-AFTI / Ocharad Park, NY	C / FP	FISC	Jun 2016	Aug 2016	117	11,128.21	Y		
1.1) RESPONSE BOOM		2017	American Pollution Control Corp. / New Iberia, LA	C / FP	FISC	Jan 2017	Mar 2017	95	11,381.00	Y		
1.1) RESPONSE BOOM		2018	Parker Systems Inc. / Chesapeake, VA	C / FP	FISC	Feb 2018	Apr 2018	99	11,656.57	Y		
1.1) RESPONSE BOOM		2019	Unknown / Unknown	C / FP	FISC	Mar 2019	May 2019	99	11,868.69	Y		
1.1) RESPONSE BOOM		2020	Unknown / Unknown	C / FP	FISC	Mar 2020	May 2020	96	12,104.17	Y		
1.2) PERMANENT BOOM		2016	AmericanPollutionControlCorp / New Iberia, LA	C / FP	FISC	Feb 2016	Apr 2016	45	20,086.96	Y		
1.2) PERMANENT BOOM		2017	DESMI-AFTI / Ocharad Park, NY	C / FP	FISC	Mar 2017	Jun 2017	30	20,566.67	Y		
1.2) PERMANENT BOOM		2018	AmericanPollutionControlCorp / New Iberia, LA	C / FP	FISC	Feb 2018	Apr 2018	32	21,031.25	Y		
1.2) PERMANENT BOOM		2019	Unknown / Unknown	C / FP	FISC	Mar 2019	Jun 2019	33	21,424.24	Y		
1.2) PERMANENT BOOM		2020	Unknown / Unknown	C / FP	FISC	Mar 2020	Jun 2020	32	21,843.75	Y		
1.3) BOOM SUPPORT EQUIPMENT		2016	American Marine Inc. / Cocoa, FL	C / FP	FISC	Mar 2016	May 2016	24	17,125.00	Y		
1.3) BOOM SUPPORT EQUIPMENT		2017	DESMI-AFTI, Inc. / Orchard Park, NY	C / FP	FISC	Mar 2017	Jun 2017	18	17,526.00	Y		
1.3) BOOM SUPPORT EQUIPMENT		2018	American Pollution Control Corp.@New Iberia, LA / New Iberia, LA	C / FP	FISC	Apr 2018	Jun 2018	22	17,954.55	Y		
1.3) BOOM SUPPORT EQUIPMENT		2019	Unknown / Unknown	C / FP	FISC	Mar 2019	Jun 2019	22	18,272.73	Y		
1.3) BOOM SUPPORT EQUIPMENT		2020	Unknown / Unknown	C / FP	FISC	Mar 2020	Jun 2020	18	18,611.11	Y		
1.4) VACUUM TRUCK		2016	Walker Group Holdings, LLC / New Lisbon, WI	C / FP	GSA	Jun 2016	Dec 2016	4	100,350.00	Y		
1.4) VACUUM TRUCK		2017	Walker Group Holdings, LLC / New Lisbon, WI	C / FP	GSA	Feb 2018	Aug 2018	3	102,500.00	Y		
1.4) VACUUM TRUCK		2018	Walker Group Holdings, LLC / New Lisbon, WI	C / FP	GSA	Sep 2018	Mar 2019	5	105,200.00	Y		
1.4) VACUUM TRUCK		2019	Unknown / Unknown	C / FP	GSA	Jun 2019	Dec 2020	4	107,348.60	Y		
1.4) VACUUM TRUCK		2020	Unknown / Unknown	C / FP	GSA	Jun 2020	Dec 2021	4	109,250.00	N		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6060 / Items under \$5 million					
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	18.508	19.434	35.540	53.467	0.000	53.467	52.220	55.105	57.310	58.454	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	18.508	19.434	35.540	53.467	0.000	53.467	52.220	55.105	57.310	58.454	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	18.508	19.434	35.540	53.467	0.000	53.467	52.220	55.105	57.310	58.454	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: SPECIAL PURPOSE VEHICLES/EQUIPMENT This program includes special purpose vehicles and trailers of commercial design which support the Naval Expeditionary Combat Command (NECC), shore activities, and Naval Special Warfare. Included are tank trucks used to transport fuel to construction equipment at remote locations, waste disposal trucks used to transport waste oil/water, overhead maintenance trucks with insulated buckets and pole and line trucks used for repair/replacement of power systems, wreckers used in vehicle recovery/towing, field servicing vehicles used for on-site preventive maintenance of construction equipment in the field, and ammunition handling trucks used in loading/unloading and transporting munitions. Truck tractors and trailers required by the active operating forces in the logistics support of the fleet are also included in this program. Representative types and uses include van and stake bed semi-trailers to support loading/unloading of ships and aircraft and movement of materials and equipment for fleet operations, lowbed semitrailers for transport of construction equipment, tank trailers for transport and dispensing of water, fuel, and hazardous liquids, and semi-trailers transport of materials. This program includes funds for the procurement of Bearcats, used on paved or improved roads, to guard and protect the TRIDENT II (D5) missile while the missile is in storage, being handled, or in a movement convoy to and from the waterfront at the Strategic Weapons Facility, Atlantic (SWFLANT) in Kings Bay, GA and the Strategic Weapons Facility, Pacific (SWFPAC) in Bangor, WA. Equipment is used in support of Strategic Systems Programs (SSP) mission of securing the Limited Area and provides for security vehicles to replace existing (aging) vehicles used in roving patrols of the Limited Area and to support TRIDENT II (D5) missile movement convoys.												
COMBAT CONSTRUCTION SUPPORT EQUIPMENT The equipment included in this program is used by the Naval Expeditionary Combat Command (NECC), Naval Beach Group (NBG), and Naval Special Warfare to provide responsive military construction support to the Navy, Marine Corps, and other forces during military operations, construction of base facilities, and in the conduct of limited defensive operations. These facilities and equipment are vital for maintaining the integrity and sustainability of these units during contingency and wartime operations. Equipment items include containers, required for prepacking and securing on-site storage of expensive equipment to expedite mobilization, fuel storage tanks required for on-site storage of fuel, water purification units required for camp water treatment systems, water storage tanks (collapsible fabric) required for water treatment, storage and distribution systems, power distribution panelboards required for camp electrical distribution systems, and tension fabric structures required for expeditionary facilities to provide equipment maintenance and company shops, berthing, laundry, and combat operations centers.												
OCEAN CONSTRUCTION EQUIPMENT Ocean Construction Equipment are those specialized equipment and facilities components used primarily by the Naval Construction Force (NCF) to perform site selection, construction, inspection, maintenance, repair and removal of fleet and other Navy fixed underwater and ocean facilities, and in support of shore-based hyperbarics. Most of the equipment is for the Ocean Construction Equipment Inventory (OCEI). In												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment		P-1 Line Item Number / Title: 6060 / Items under \$5 million
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		
accordance with SECNAVINST 5400.15C and OPNAVINST 5450.348, it is centrally procured and maintained by the Naval Facilities Engineering Command in a controlled inventory to ensure the NCF response to fleet needs is both timely and adequate. Utilization of funds from this program sustains the Naval Construction Force (NCF) capability to meet fleet requirements for ocean facility site survey, construction, inspection, repair, and removal, resulting in the ability of the fleet to retain its readiness through utilization of its underwater facilities. The funds requested in FY19 FY20 funds for specialized ocean construction equipment will be utilized to procure underwater survey systems, underwater sonar systems, and underwater construction tools. MOBILE UTILITIES SUPPORT EQUIPMENT (MUSE) Equipment in this program consists of electric power generation plants, electric substations, and electric switch gear. MUSE provides short-term support for fleet and shore utility requirements resulting from equipment failures, changes in planning and programming, temporary replacement of utilities equipment which is out of service, ship support and testing, expeditionary military operations, and utilities outages resulting from natural disaster. Operations supported are submarine testing, ships' repair, retrofit and nuclear refueling, cold iron applications, serious utility system deficiencies, MILCON delay, and advanced base requirements.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6060 / Items under \$5 million				
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Items under \$5 million	P-5a			- / 18.508	- / 19.434	- / 35.540	- / 53.467	- / -	- / 53.467
P-40	Total Gross/Weapon System Cost				- / 18.508	- / 19.434	- / 35.540	- / 53.467	- / 0.000	- / 53.467
*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: The \$17.927 million budget increase from FY2019 to FY2020 is due to a realignment of funding that supports the transition of Facilities Engineering Command (FEC) from Navy Working Capital Fund (NWCF) to General Funding. As a general fund activity, FEC will be mission funded within Commander, Navy Installations Command (CNIC) to provide similar services to those that were previously purchased by customers. Funds requested in FY 2020 will provide for requirements to support fielding a fleet of equipment within useful life expectancy, this includes replacement of equipment which has exceeded its useful life or new approved equipment requirements necessary to support the various expeditionary missions. Focus for expeditionary facilities is the procurement and fielding of Command and Control tent camp equipment and berthing. These engineered capabilities integrate joint standardization board (JSB) approved equipment to ensure interoperability, energy enhancements and commonality across the Navy and DOD. These materiel assets support Naval Special Warfare (NSW) and other Navy Expeditionary Forces core mission requirements and are essential to the readiness and battlefield effectiveness of NSW. Mobile Utilities Support Equipment - Funding will be used to recapitalize the MUSE generator and substation equipment. Current inventory and condition assessment of MUSE power generation assets rated 77% of generation capability. The assessment also rated a zero percent capability to support CONUS prime power missions. The major risk is long term limited availability of MUSE (total and EPA compliant) generation assets with continued increases in unsupported MUSE missions. The quantity of Bearcats is increasing from 3 to 4 from FY2019 to FY2020 to replace aging vehicles which are required to guard and protect the TRIDENT II (D5) missile while the missile is in storage, being handled, or in a movement convoy to and from the waterfront at the at the Strategic Weapons Facilities. Capabilities presented on the P40-A consist of many components. Variation in components being procured in a given fiscal year will yield fluctuation in the unit costs.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6060 / Items under \$5 million								Aggregated Items Title: Items under \$5 million					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) SPECIAL PURPOSE VEHICLES																				
1.1) 0636, 4X2 TRUCK STAKE 33,000 GVWR AND UP 20 FT BED REG CAB ^(†)	A		-	-	-	-	-	-	-	-	-	72,000.00	3	0.216	-	-	-	72,000.00	3	0.216
1.2) 474, TRUCK VAN 21000 GVWR AND UP 12-18 FT BODY ^(†)	A		-	-	-	72,055.00	11	0.793	73,496.00	9	0.661	74,966.00	6	0.450	-	-	-	74,966.00	6	0.450
1.3) 533, TRUCK STAKE 21000 GVWR AND UP 12-18 FT BED REG CAB ^(†)	A		-	-	-	72,496.00	1	0.072	73,440.00	6	0.441	74,909.00	6	0.449	-	-	-	74,909.00	6	0.449
1.4) 624H, TRUCK TRACTOR 6X4 52000 GVWR 85000 GCVWR ^(†)	A		-	-	-	123,763.00	3	0.371	125,732.00	7	0.880	128,247.00	4	0.513	-	-	-	128,247.00	4	0.513
1.5) 625S, TRUCK VAN 6X4 25500 ^(†)	A		-	-	-	-	-	-	-	-	-	160,000.00	2	0.320	-	-	-	160,000.00	2	0.320
1.6) 634H, TRUCK Tractor 85000 GVWR NONSTANDARD ^(†)	A		-	-	-	105,312.00	1	0.105	-	-	-	109,050.00	2	0.218	-	-	-	109,050.00	2	0.218
1.7) 734, TRUCK STAKE 6X4 43000 GVWR NONSTANDARD ^(†)	A		-	-	-	105,312.00	3	0.316	105,026.00	4	0.420	107,127.00	5	0.536	-	-	-	107,127.00	5	0.536
1.9) AIRCRAFT REFUELER ^(†)	A		-	-	-	685,000.00	3	2.055	-	-	-	-	-	-	-	-	-	-	-	-
1.10) DLA, TRAILER, BOX, FLAT 53 ^(†)	A		-	-	-	-	-	-	-	-	-	45,000.00	6	0.270	-	-	-	45,000.00	6	0.270
1.11) DLA, TRAILER, STAKE, FLAT 53 ^(†)	A		-	-	-	45,496.00	6	0.273	45,900.00	8	0.367	46,818.00	4	0.187	-	-	-	46,818.00	4	0.187
1.12) ILS for SPECIAL PURPOSE VEHICLES	A		-	-	0.534	-	-	0.074	-	-	0.239	-	-	0.175	-	-	-	-	-	0.175
1.13) Multi-Mission EOD Response Truck ^(†)	A		-	-	-	800,000.00	6	4.800	-	-	-	-	-	-	-	-	-	-	-	-
1.14) SEMI LOWBED 35 TON ^(†)	A		-	-	-	-	-	-	80,000.00	2	0.160	-	-	-	-	-	-	-	-	-
1.15) SEMITRAILER STAKE BREAKBULK/ ISO CONTAINER ^(†)	A		60,875.00	8	0.487	-	-	-	64,428.00	5	0.322	65,617.00	5	0.328	-	-	-	65,617.00	5	0.328

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6060 / Items under \$5 million								Aggregated Items Title: Items under \$5 million					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) TRAILER 55T LOWBED ^(†)	A		74,500.00	2	0.149	-	-	-	-	-	-	80,435.00	1	0.080	-	-	-	80,435.00	1	0.080
1.17) SEMITRAILER STAKE TRUCK 34 TON ^(†)	A		-	-	-	-	-	-	64,428.00	5	0.322	65,617.00	5	0.328	-	-	-	65,617.00	5	0.328
1.18) TRLR TNK 400G ^(†)	A		22,500.00	24	0.540	23,340.00	4	0.093	-	-	-	24,283.00	1	0.024	-	-	-	24,283.00	1	0.024
1.19) TRUCK STAKE 21000 GVWR RHD ^(†)	A		-	-	-	70,496.00	1	0.070	-	-	-	-	-	-	-	-	-	-	-	-
1.20) TRUCK STAKE 6X6 DED 52000 GVW ^(†)	A		160,000.00	1	0.160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.21) TRUCK TANK FUEL 4X4 DED 1500 GAL ^(†)	A		98,500.00	2	0.197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.22) TRUCK TRACTOR ^(†)	A		172,095.24	21	3.614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.23) TRK STAKE 46000 ^(†)	A		-	-	-	-	-	-	-	-	-	115,391.00	3	0.346	-	-	-	115,391.00	3	0.346
1.24) TRUCK TRACTOR 6X4 ^(†)	A		-	-	-	213,350.00	4	0.853	217,617.00	2	0.435	-	-	-	-	-	-	-	-	-
1.25) SPECIAL PURPOSE VEHICLE-BEARCATS ^{(1)(†)}	A		269,500.00	2	0.539	309,000.00	1	0.309	283,666.66	3	0.851	290,750.00	4	1.163	-	-	-	290,750.00	4	1.163
1.26) 4X 2 TRUCK PANEL VAN, MAINTENANCE CONVERSION SIN 162 ^{(2)(†)}	A		-	-	-	-	-	-	-	-	-	30,131.00	21	0.633	-	-	-	30,131.00	21	0.633
1.27) 4X2 STAKE/ FLAT BED 12-22 FEET 22000-24000 LBS GVWR REG CAB ^(†)	A		-	-	-	-	-	-	-	-	-	121,680.00	2	0.243	-	-	-	121,680.00	2	0.243
1.28) SEMITRAILER DEMOLITION REAR DUMP 34 CY ^(†)	A		-	-	-	-	-	-	-	-	-	63,882.00	1	0.064	-	-	-	63,882.00	1	0.064
1.29) SEMITRAILER DROP DECK 2 AXLE 20 TON ^(†)	A		-	-	-	-	-	-	-	-	-	53,742.00	2	0.107	-	-	-	53,742.00	2	0.107
1.30) SEMITRAILER DROP DECK 20 TON	A		-	-	-	-	-	-	-	-	-	55,770.00	2	0.112	-	-	-	55,770.00	2	0.112

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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
HYDRAULIC RAMP WITH WINCH ^(†)																				
1.31) SEMITRAILER LOWBED 2 AXLE 35 TON NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	38,532.00	4	0.154	-	-	-	38,532.00	4	0.154
1.32) SEMITRAILER LOWBED 3 AXLE 35 TON ^(†)	A		-	-	-	-	-	-	-	-	-	39,044.00	3	0.117	-	-	-	39,044.00	3	0.117
1.33) SEMITRAILER LOWBED 3 AXLE 50 TON ^(†)	A		-	-	-	-	-	-	-	-	-	39,044.00	2	0.078	-	-	-	39,044.00	2	0.078
1.34) SEMITRAILER LOWBED 3 AXLE 60 TON ^(†)	A		-	-	-	-	-	-	-	-	-	63,640.00	2	0.127	-	-	-	63,640.00	2	0.127
1.35) SEMITRAILER LOWBED 3 AXLE 60 TON AND UP NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	64,640.00	4	0.259	-	-	-	64,640.00	4	0.259
1.36) SEMITRAILER LOWBED TRUNNION AXLE NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	26,754.00	1	0.027	-	-	-	26,754.00	1	0.027
1.37) SEMITRAILER LOWBED TRUNNION AXLE UP TO 60 TON ^(†)	A		-	-	-	-	-	-	-	-	-	79,092.00	1	0.079	-	-	-	79,092.00	1	0.079
1.38) SEMITRAILER REAR DUMP SAND/ GRAVEL 18 CY ^(†)	A		-	-	-	-	-	-	-	-	-	44,407.00	1	0.044	-	-	-	44,407.00	1	0.044
1.39) SEMITRAILER STAKE 2-3 AXLE NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	34,172.00	3	0.103	-	-	-	34,172.00	3	0.103
1.40) SEMITRAILER STAKE 2-3 AXLE 20 TON 40-55 FT WITH STAKES ^(†)	A		-	-	-	-	-	-	-	-	-	33,462.00	2	0.067	-	-	-	33,462.00	2	0.067
1.41) SEMITRAILER STAKE 2-3 AXLE 20 TON 40-55 FT WITHOUT STAKES ^(†)	A		-	-	-	-	-	-	-	-	-	33,462.00	13	0.435	-	-	-	33,462.00	13	0.435
1.42) SEMITRAILER TANK 5000 GALLON AND UP GP ^(†)	A		-	-	-	-	-	-	-	-	-	198,144.00	1	0.198	-	-	-	198,144.00	1	0.198

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Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1						P-1 Line Item Number / Title: 6060 / Items under \$5 million									Aggregated Items Title: Items under \$5 million					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) SEMITRAILER TANK FUEL SERV 5500 GALLON ^(†)	A		-	-	-	-	-	-	-	-	-	198,440.00	5	0.992	-	-	-	198,440.00	5	0.992
1.44) SEMITRAILER TANK GENERAL PURPOSE 6000 GALLON AND UP NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	77,620.00	1	0.078	-	-	-	77,620.00	1	0.078
1.45) SEMITRAILER TANK GENERAL PURPOSE 4001-5999 GALLON NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	113,833.00	1	0.114	-	-	-	113,833.00	1	0.114
1.46) SEMITRAILER VAN REFRIGERATOR 2 AXLE NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	105,456.00	1	0.105	-	-	-	105,456.00	1	0.105
1.47) SEMITRAILER VAN 2 AXLE 20 TON 40-55 FT ^(†)	A		-	-	-	-	-	-	-	-	-	30,420.00	2	0.061	-	-	-	30,420.00	2	0.061
1.48) TRAILER CABLE REEL NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	15,798.00	1	0.016	-	-	-	15,798.00	1	0.016
1.49) TRAILER HYDRAULIC ELEVATING BODY NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	18,252.00	2	0.037	-	-	-	18,252.00	2	0.037
1.50) TRAILER HYDRAULIC ELEVATING BODY 15000 LB PAYLOAD ^(†)	A		-	-	-	-	-	-	-	-	-	35,490.00	2	0.071	-	-	-	35,490.00	2	0.071
1.51) TRAILER LOWBED 18001 GVWR AND UP STATIONARY AXLE ^(†)	A		-	-	-	-	-	-	-	-	-	18,252.00	2	0.037	-	-	-	18,252.00	2	0.037
1.52) TRAILER LOWBED TILT DECK 2 OR 4 WHEEL NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	70,717.00	3	0.212	-	-	-	70,717.00	3	0.212
1.53) TRAILER, EQUIPMENT, ELEVATING/DROP DECK ^(†)	A		-	-	-	-	-	-	-	-	-	25,350.00	1	0.025	-	-	-	25,350.00	1	0.025

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Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6060 / Items under \$5 million								Aggregated Items Title: Items under \$5 million					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
1.54) TRAILER LOWBED TILT DECK TANDEM AXLE UP TO 6 TON ^(†)	A		-	-	-	-	-	-	-	-	-	35,490.00	5	0.177	-	-	-	35,490.00	5	0.177
1.55) TRUCK DUMP 3 CY 21000 GVWR ^(†)	A		-	-	-	-	-	-	-	-	-	43,957.00	1	0.044	-	-	-	43,957.00	1	0.044
1.56) TRUCK DUMP 5 CY 28000 GVWR ^(†)	A		-	-	-	-	-	-	-	-	-	86,798.00	1	0.087	-	-	-	86,798.00	1	0.087
1.57) TRUCK CARGO PICKUP COMPACT 4X2 UP TO 6100 GVWR EXTENDED CAB ^(†)	A		-	-	-	-	-	-	-	-	-	29,609.00	1	0.030	-	-	-	29,609.00	1	0.030
1.58) TRUCK DUMP 5 CY 28000 GVWR 4X4 RHD ^(†)	A		-	-	-	-	-	-	-	-	-	81,120.00	1	0.081	-	-	-	81,120.00	1	0.081
1.59) TRUCK DUMP 3 CY 21000 GVWR RHD ^(†)	A		-	-	-	-	-	-	-	-	-	36,504.00	1	0.037	-	-	-	36,504.00	1	0.037
1.60) TRUCK MAINTENANCE OVERHEAD AERIAL SERVICE NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	198,176.00	1	0.198	-	-	-	198,176.00	1	0.198
1.61) TRUCK MAINTENANCE POLE AND LINE NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	177,629.00	2	0.355	-	-	-	177,629.00	2	0.355
1.62) TRUCK MAINTENANCE POLE AND LINE WITH ROTATING HYDRAULIC DERRICK ^(†)	A		-	-	-	-	-	-	-	-	-	284,732.00	5	1.424	-	-	-	284,732.00	5	1.424
1.63) TRUCK MAINTENANCE UTILITY 8501 GVWR AND UP CREW CAB 4X2 ^(†)	A		-	-	-	-	-	-	-	-	-	35,490.00	32	1.136	-	-	-	35,490.00	32	1.136
1.64) TRUCK MAINTENANCE UTILITY 6001-8500 GVWR CREW CAB 4X4 ^(†)	A		-	-	-	-	-	-	-	-	-	42,588.00	1	0.043	-	-	-	42,588.00	1	0.043
1.65) TRUCK MAINTENANCE	A		-	-	-	-	-	-	-	-	-	72,501.00	1	0.073	-	-	-	72,501.00	1	0.073

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6060 / Items under \$5 million								Aggregated Items Title: Items under \$5 million					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
TELEPHONE/ UTILITY 4X2/4X4 NONSTANDARD ^(†)																				
1.66) TRUCK MAINTENANCE UTILITY 6001-8500 GVWR REGULAR/ EXTENDED CAB 4X4 ^(†)	A		-	-	-	-	-	-	-	-	-	31,434.00	1	0.031	-	-	-	31,434.00	1	0.031
1.67) TRUCK MATERIAL HANDLING CHAIN/ CABLE HOIST/HAUL NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	155,414.00	8	1.243	-	-	-	155,414.00	8	1.243
1.68) TRUCK MOUNTED OVERHEAD AERIAL SERVICE ARTICULATING NON-OVER CENTER ^(†)	A		-	-	-	-	-	-	-	-	-	106,470.00	1	0.106	-	-	-	106,470.00	1	0.106
1.69) TRUCK MOUNTED OVERHEAD AERIAL SERVICE ARTICULATING NON-OVER CENTER 60 ^(†)	A		-	-	-	-	-	-	-	-	-	121,680.00	1	0.122	-	-	-	121,680.00	1	0.122
1.70) TRUCK MOUNTED OVERHEAD AERIAL SERVICE RHD ^(†)	A		-	-	-	-	-	-	-	-	-	131,313.00	4	0.525	-	-	-	131,313.00	4	0.525
1.71) TRUCK PANEL VAN UTILITY 4X2 8501 GVWR AND UP ^(†)	A		-	-	-	-	-	-	-	-	-	39,546.00	43	1.700	-	-	-	39,546.00	43	1.700
1.72) TRUCK PANEL VAN UTILITY 4X2 6001 TO 8500 GVWR ^(†)	A		-	-	-	-	-	-	-	-	-	34,577.00	8	0.277	-	-	-	34,577.00	8	0.277
1.73) TRUCK REEL HANDLING/ TENSIONING POWERED NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	165,526.00	1	0.166	-	-	-	165,526.00	1	0.166
1.74) TRUCK TANK AVGAS/	A		-	-	-	-	-	-	-	-	-	178,190.00	8	1.426	-	-	-	178,190.00	8	1.426

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Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
JETFUEL 5000-6000 GALLON ^(†)																				
1.75) TRUCK STAKE 21000 GVWR AND UP NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	103,489.00	2	0.207	-	-	-	103,489.00	2	0.207
1.76) TRUCK STAKE 6X4 43000 GVWR NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	170,352.00	2	0.341	-	-	-	170,352.00	2	0.341
1.77) TRUCK STAKE 21000 GVWR AND UP 12-22 FT BED REGULAR CAB ^(†)	A		-	-	-	-	-	-	-	-	-	60,000.00	4	0.240	-	-	-	60,000.00	4	0.240
1.78) TRUCK STAKE 24000 GVWR RHD ^(†)	A		-	-	-	-	-	-	-	-	-	68,952.00	5	0.345	-	-	-	68,952.00	5	0.345
1.79) TRUCK STAKE 6X4 43000 GVWR RHD ^(†)	A		-	-	-	-	-	-	-	-	-	162,240.00	1	0.162	-	-	-	162,240.00	1	0.162
1.80) TRUCK STAKE 25500 GVWR AND UP 12-18 FT BED ^(†)	A		-	-	-	-	-	-	-	-	-	66,518.00	1	0.067	-	-	-	66,518.00	1	0.067
1.81) TRUCK TANK FUEL SERVICING 2000 GALLON NONSTANDARD ^(†)	A		-	-	-	-	-	-	-	-	-	105,176.00	6	0.631	-	-	-	105,176.00	6	0.631
1.82) TRUCK TANK FUEL SERVICING 1 SYSTEM 1 TANK ^(†)	A		-	-	-	-	-	-	-	-	-	105,176.00	4	0.421	-	-	-	105,176.00	4	0.421
1.83) TRUCK TANK FUEL SERVICING 2 SYSTEM 2 TANK ^(†)	A		-	-	-	-	-	-	-	-	-	105,176.00	4	0.421	-	-	-	105,176.00	4	0.421
1.84) TRUCK TANK FUEL SERVICING 2K 1 SYS 1 TNK RHD JAPAN ^(†)	A		-	-	-	-	-	-	-	-	-	105,405.00	3	0.316	-	-	-	105,405.00	3	0.316
1.85) TRUCK TANK FUEL 4X4 ^(†)	A		-	-	-	-	-	-	-	-	-	253,475.00	4	1.014	-	-	-	253,475.00	4	1.014
1.86) TRUCK TRACTOR 6X4 52000 GVWR 85000 GCVWR ^(†)	A		-	-	-	-	-	-	-	-	-	152,100.00	2	0.304	-	-	-	152,100.00	2	0.304
1.87) TRUCK TRACTOR 32000 GVWR RHD ^(†)	A		-	-	-	-	-	-	-	-	-	109,512.00	2	0.219	-	-	-	109,512.00	2	0.219

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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
1.88) TRUCK TRACTOR 32000 GVWR 55000 GCVWR ^(†)	A		-	-	-	-	-	-	-	-	-	103,428.00	1	0.103	-	-	-	103,428.00	1	0.103
1.89) TRUCK VAN 21000 GVWR RHD ^(†)	A		-	-	-	-	-	-	-	-	-	45,630.00	6	0.274	-	-	-	45,630.00	6	0.274
1.90) TRUCK VAN 24000 GVWR RHD ^(†)	A		-	-	-	-	-	-	-	-	-	74,529.00	2	0.149	-	-	-	74,529.00	2	0.149
1.91) TRUCK VAN 25500 GVWR 12 FT-18 FT BODY ^(†)	A		-	-	-	-	-	-	-	-	-	74,529.00	1	0.075	-	-	-	74,529.00	1	0.075
1.95) TRUCK WRECKER ROLLBACK ^(†)	A		-	-	-	-	-	-	-	-	-	121,448.00	1	0.121	-	-	-	121,448.00	1	0.121
Subtotal: 1) SPECIAL PURPOSE VEHICLES			-	-	6.220	-	-	10.184	-	-	5.098	-	-	24.889	-	-	-	-	-	24.889
2) COMBAT CONSTRUCTION SUPPORT EQUIPMENT ⁽³⁾																				
2.1) EXPEDITIONARY FACILITIES - INTEGRATED BERTHING 48 PERSON ^(†)	A		-	-	-	-	-	-	379,216.00	21	7.964	386,801.00	30	11.604	-	-	-	386,801.00	30	11.604
2.3) CONTAINER, REFRIGERATION, STANDARD 20FT ^(†)	A		-	-	-	141,000.00	15	2.115	143,820.00	4	0.575	-	-	-	-	-	-	-	-	-
2.4) CONTAINERS ^(†)	A		22,000.00	11	0.242	22,809.00	51	1.163	-	-	-	-	-	-	-	-	-	-	-	-
2.5) EXPEDITIONARY FACILITY ^(†)	A		750,700.00	10	7.507	722,195.00	6	4.333	-	-	-	-	-	-	-	-	-	-	-	-
2.6) EXPEDITIONARY FACILITY (RESERVE FORCES) ^(†)	A		696,000.00	2	1.392	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.7) EXPEDITIONARY FACILITY- TACTICAL OPERATION COMMAND ^(†)	A		-	-	-	-	-	-	360,252.00	25	9.006	-	-	-	-	-	-	-	-	-
2.8) EXPEDITIONARY FACILITY- COMMAND OPERATIONS	A		-	-	-	-	-	-	920,000.00	4	3.680	-	-	-	-	-	-	-	-	-

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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)	
CCENTER - MEDIUM ^(†)																					
2.9) EXPEDITIONARY FACILITIES - GALLEY ^(†)	A		-	-	-	-	-	-	-	-	-	743,419.67	3	2.230	-	-	-	743,419.67	3	2.230	
2.11) Expeditionary Facilities - Field Kitchen ^(†)	A		-	-	-	-	-	-	-	-	-	250,000.00	20	5.000	-	-	-	250,000.00	20	5.000	
2.12) ILS FOR COMBAT CONSTRUCTION SUPPORT EQUIPMENT	A		-	-	0.864	-	-	0.278	-	-	0.020	-	-	0.151	-	-	-	-	-	0.151	
2.13) MANPORTABLE WATER FILTRATION ^(†)	A		-	-	-	22,000.00	4	0.088	-	-	-	-	-	-	-	-	-	-	-	-	
2.18) EXPEDITIONARY MEDICAL SUPPORT	A		-	-	-	-	-	-	-	-	1.542	-	-	1.909	-	-	-	-	-	1.909	
Subtotal: 2) COMBAT CONSTRUCTION SUPPORT EQUIPMENT			-	-	10.005	-	-	7.977	-	-	22.787	-	-	20.894	-	-	-	-	-	20.894	
3) MOBILE UTILITIES SUPPORT EQUIPMENT																					
3.1) MOBILE UTILITIES SUPPORT EQUIPMENT ^(†)	A		873,500.00	2	1.747	909,000.00	1	0.909	-	-	-	-	-	-	-	-	-	-	-	-	
3.2) AUXILIARY DIESEL GENERATORS ^(†)	A		-	-	-	-	-	-	49,000.00	1	0.049	50,000.00	2	0.100	-	-	-	50,000.00	2	0.100	
3.3) DIESEL GENERATORS ^(†) (4160V)	A		-	-	-	-	-	-	1,221K	3	3.663	1,250K	3	3.751	-	-	-	1,250K	3	3.751	
3.4) TIER-2 COMPLIANT CUMMINS ENGINES ^(†)	A		-	-	-	-	-	-	300,000.00	1	0.300	-	-	-	-	-	-	-	-	-	
3.5) 2000 AMP, 5KV/15KV LOAD DISTRIBUTION SWITCHGEAR ^(†)	A		-	-	-	-	-	-	1,500K	1	1.500	1,536K	1	1.536	-	-	-	1,536K	1	1.536	
3.6) 2500 KVA, 5KV/15KV TRANSFORMER ^(†)	A		-	-	-	-	-	-	150,000.00	1	0.150	153,000.00	2	0.306	-	-	-	153,000.00	2	0.306	

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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
3.7) 3750 KVA, 5KV/480 V TRANSFORMER ^(†)	A		-	-	-	-	-	-	400,000.00	1	0.400	413,666.00	1	0.414	-	-	-	413,666.00	1	0.414
3.8) 5000 AMP, 480 V LOAD DISTRIBUTION SWITCHGEAR ^(†)	A		-	-	-	-	-	-	1,000K	1	1.000	1,026K	1	1.026	-	-	-	1,026K	1	1.026
3.9) 3200 AMP, 480 V MOBILE POWER MOUND AND MISC. AND CONNECTORS ^(†)	A		-	-	-	-	-	-	300,000.00	1	0.300	306,000.00	1	0.306	-	-	-	306,000.00	1	0.306
Subtotal: 3) MOBILE UTILITIES SUPPORT EQUIPMENT			-	-	1.747	-	-	0.909	-	-	7.362	-	-	7.439	-	-	-	-	-	7.439
4) OCEAN CONSTRUCTION EQUIPMENT																				
4.1) OCEAN CONSTRUCTION EQUIPMENT ^(†)	A		67,000.00	8	0.536	91,000.00	4	0.364	73,250.00	4	0.293	61,250.00	4	0.245	-	-	-	61,250.00	4	0.245
Subtotal: 4) OCEAN CONSTRUCTION EQUIPMENT			-	-	0.536	-	-	0.364	-	-	0.293	-	-	0.245	-	-	-	-	-	0.245
Total			-	-	18.508	-	-	19.434	-	-	35.540	-	-	53.467	-	-	-	-	-	53.467

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) The quantity of Bearcats is increasing from 3 to 4 from FY2019 to FY2020 to replace aging vehicles which are required to guard and protect the TRIDENT II (D5) missile while the missile is in storage, being handled, or in a movement convoy to and from the waterfront at the Strategic Weapons Facilities.

(2) Cost elements 1.26 thru 1.95 are items that were formerly procured via NWCF and have shifted to OPN.

(3) Capabilities presented on the P40-A consist of many components. Variation in components being procured in a given fiscal year will yield fluctuation in the unit costs.

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6060 / Items under \$5 million						Aggregated Items: Items under \$5 million			
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) SPECIAL PURPOSE VEHICLES												
1.1) 0636, 4X2 TRUCK STAKE 33,000 GVWR AND UP 20 FT BED REG CAB		2020	Unknown / Unknown	MIPR	GSA	Jan 2020	Jan 2020	3	72,000.00	Y		
1.2) 474, TRUCK VAN 21000 GVWR AND UP 12-18 FT BODY		2018	Navistar, Inc / Knoxville, TN	MIPR	GSA	Mar 2018	Dec 2018	11	72,055.00	Y		
1.2) 474, TRUCK VAN 21000 GVWR AND UP 12-18 FT BODY		2019	Unknown / Unknown	MIPR	GSA	Feb 2019	Feb 2019	9	73,496.00	Y		
1.2) 474, TRUCK VAN 21000 GVWR AND UP 12-18 FT BODY		2020	Unknown / Unknown	MIPR	GSA	Feb 2020	Feb 2020	6	74,966.00	Y		
1.3) 533, TRUCK STAKE 21000 GVWR AND UP 12-18 FT BED REG CAB		2018	Unknown / Unknown	MIPR	GSA	Feb 2019	Feb 2019	1	72,496.00	Y		
1.3) 533, TRUCK STAKE 21000 GVWR AND UP 12-18 FT BED REG CAB		2019	Unknown / Unknown	MIPR	GSA	Jun 2019	Jun 2019	6	73,440.00	Y		
1.3) 533, TRUCK STAKE 21000 GVWR AND UP 12-18 FT BED REG CAB		2020	Unknown / Unknown	MIPR	GSA	Oct 2019	Oct 2019	6	74,909.00	Y		
1.4) 624H, TRUCK TRACTOR 6X4 52000 GVWR 85000 GCVWR		2018	Unknown / Unknown	MIPR	GSA	Feb 2019	Oct 2019	3	123,763.00	Y		
1.4) 624H, TRUCK TRACTOR 6X4 52000 GVWR 85000 GCVWR		2019	Unknown / Unknown	MIPR	GSA	Jun 2019	Jun 2019	7	125,732.00	Y		
1.4) 624H, TRUCK TRACTOR 6X4 52000 GVWR 85000 GCVWR		2020	Unknown / Unknown	MIPR	GSA	Feb 2020	Feb 2020	4	128,247.00	Y		
1.5) 625S, TRUCK VAN 6X4 25500		2020	Unknown / Unknown	MIPR	GSA	Mar 2020	Dec 2020	2	160,000.00	Y		
1.6) 634H, TRUCK Tractor 85000 GVWR NONSTANDARD		2018	Unknown / Unknown	MIPR	GSA	Feb 2019	Nov 2019	1	105,312.00	Y		
1.6) 634H, TRUCK Tractor 85000 GVWR NONSTANDARD		2020	Unknown / Unknown	MIPR	GSA	Feb 2020	Feb 2020	2	109,050.00	Y		
1.7) 734, TRUCK STAKE 6X4 43000 GVWR NONSTANDARD		2018	Unknown / Unknown	MIPR	GSA	Feb 2019	Oct 2019	3	105,312.00	Y		
1.7) 734, TRUCK STAKE 6X4 43000 GVWR NONSTANDARD		2019	Unknown / Unknown	MIPR	GSA	Jun 2019	Jun 2019	4	105,026.00	Y		
1.7) 734, TRUCK STAKE 6X4 43000 GVWR NONSTANDARD		2020	Unknown / Unknown	C / TBD	GSA	Jan 2020	Jan 2020	5	107,127.00	Y		
1.9) AIRCRAFT REFUELER		2018	Unknown / Unknown	MIPR	GSA	Feb 2019	Feb 2019	3	685,000.00	Y		
1.10) DLA, TRAILER, BOX, FLAT 53'		2020	Unknown / Unknown	MIPR	DLA	Mar 2020	Mar 2020	6	45,000.00	Y		

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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
1.11) DLA, TRAILER, STAKE, FLAT 53'		2018	Unknown / Unknown	MIPR	GSA	Feb 2019	Oct 2019	6	45,496.00	Y		
1.11) DLA, TRAILER, STAKE, FLAT 53'		2019	Unknown / Unknown	MIPR	GSA	May 2019	May 2019	8	45,900.00	Y		
1.11) DLA, TRAILER, STAKE, FLAT 53'		2020	Unknown / Unknown	MIPR	GSA	Jan 2020	Jan 2020	4	46,818.00	Y		
1.13) Multi-Mission EOD Response Truck		2018	Unknown / Unknown	MIPR	DLA	Feb 2019	Aug 2019	6	800,000.00	Y		
1.14) SEMI LOWBED 35 TON		2019	Unknown / Unknown	C / TBD	DLA	Dec 2018	Dec 2019	2	80,000.00	Y		
1.15) SEMITRAILER STAKE BREAKBULK/ISO CONTAINER		2016	GLOBE TRAILER / Bradenton, FL	MIPR	DLA	Jun 2016	Jun 2016	2	60,891.00	Y		
1.15) SEMITRAILER STAKE BREAKBULK/ISO CONTAINER		2017	GLOBE TRAILER / Bradenton, FL	MIPR	GSA	Sep 2017	Jun 2018	6	60,891.00	Y		
1.15) SEMITRAILER STAKE BREAKBULK/ISO CONTAINER		2019	UNKNOWN / UNKNOWN	MIPR	GSA	Oct 2018	Oct 2018	5	64,428.00	Y		
1.16) TRAILER 55T LOWBED		2016	GLOBE TRAILER / Bradenton, FL	MIPR	DLA	Aug 2016	Oct 2016	2	74,529.00	Y		
1.17) SEMITRAILER STAKE TRUCK 34 TON		2019	Unknown / Unknown	MIPR	GSA	Feb 2019	Feb 2020	5	64,428.00	Y		
1.17) SEMITRAILER STAKE TRUCK 34 TON		2020	Unknown / Unknown	C / TBD	** NO PCO **	Feb 2020	Feb 2020	5	65,617.00	Y		
1.18) TRLR TNK 400G		2016	GLOBE TRAILER / Bradenton, FL	MIPR	DLA	Sep 2016	Feb 2017	24	22,500.00	Y		
1.18) TRLR TNK 400G		2018	GLOBE TRAILER / Bradenton, FL	MIPR	DLA	Jan 2018	Jun 2018	4	23,340.00	Y		
1.19) TRUCK STAKE 21000 GVWR RHD		2018	Unknown / Unknown	MIPR	GSA	Feb 2019	Oct 2019	1	70,496.00	Y		
1.20) TRUCK STAKE 6X6 DED 52000 GVW		2017	NAVISTAR International / Madison Heights, MI	MIPR	DLA	Oct 2016	Oct 2016	1	160,000.00	Y		
1.21) TRUCK TANK FUEL 4X4 DED 1500 GAL		2017	VARIOUS / VARIOUS	MIPR	GSA	Sep 2017	Mar 2018	2	98,473.00	Y		
1.22) TRUCK TRACTOR		2016	Navistar, Inc / Knoxville, TN	Various	Various	Apr 2016	Nov 2016	11	170,458.00	Y		
1.22) TRUCK TRACTOR		2017	Navistar, Inc / Knoxville, TN	Various	Various	Oct 2017	May 2018	10	173,867.00	Y		
1.23) TRK STAKE 46000		2020	Unknown / Unknown	MIPR	DLA	Mar 2020	Mar 2020	3	115,391.00	Y		
1.24) TRUCK TRACTOR 6X4		2018	Unknown / Unknown	MIPR	GSA	Feb 2019	Aug 2019	4	213,350.00	Y		
1.24) TRUCK TRACTOR 6X4		2019	Unknown / Unknown	MIPR	GSA	Jun 2019	Jun 2019	2	217,617.00	Y		
1.25) SPECIAL PURPOSE VEHICLE-BEARCATS ⁽¹⁾		2016	GSA / LENCO/Pittsfield, Ma	MIPR	GSA	Oct 2016	Jul 2017	1	282,000.00	Y		
1.25) SPECIAL PURPOSE VEHICLE-BEARCATS ⁽¹⁾		2017	GSA / LENCO/Pittsfield, Ma	MIPR	GSA	Jun 2017	Mar 2018	1	257,000.00	Y		

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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
1.25) SPECIAL PURPOSE VEHICLE-BEARCATS ⁽¹⁾		2018	GSA / LENCO/Pittsfield, Ma	MIPR	GSA	Jul 2018	Apr 2019	1	309,000.00	Y		
1.25) SPECIAL PURPOSE VEHICLE-BEARCATS ⁽¹⁾		2019	GSA / LENCO/Pittsfield, Ma	MIPR	GSA	Jan 2019	Oct 2019	3	283,666.66	Y		
1.25) SPECIAL PURPOSE VEHICLE-BEARCATS ⁽¹⁾		2020	GSA / LENCO/Pittsfield, Ma	MIPR	GSA	Jan 2020	Oct 2020	4	290,750.00	N		
1.26) 4X 2 TRUCK PANEL VAN, MAINTENANCE CONVERSION SIN 162 ⁽²⁾		2020	Unknown / Unknown	C / TBD	GSA	Oct 2019	Oct 2019	21	30,131.00	Y		
1.27) 4X2 STAKE/ FLAT BED 12-22 FEET 22000-24000 LBS GVWR REG CAB		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	121,680.00	Y		
1.28) SEMITRAILER DEMOLITION REAR DUMP 34 CY		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	63,882.00	Y		
1.29) SEMITRAILER DROP DECK 2 AXLE 20 TON		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	53,742.00	Y		
1.30) SEMITRAILER DROP DECK 20 TON HYDRAULIC RAMP WITH WINCH		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	55,770.00	Y		
1.31) SEMITRAILER LOWBED 2 AXLE 35 TON NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	4	38,532.00	Y		
1.32) SEMITRAILER LOWBED 3 AXLE 35 TON		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	3	39,044.00	Y		
1.33) SEMITRAILER LOWBED 3 AXLE 50 TON		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	39,044.00	Y		
1.34) SEMITRAILER LOWBED 3 AXLE 60 TON		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	63,640.00	Y		
1.35) SEMITRAILER LOWBED 3 AXLE 60 TON AND UP NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	4	64,640.00	Y		
1.36) SEMITRAILER LOWBED TRUNNION AXLE NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	26,754.00	Y		
1.37) SEMITRAILER LOWBED TRUNNION AXLE UP TO 60 TON		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	79,092.00	Y		
1.38) SEMITRAILER REAR DUMP SAND/GRAVEL 18 CY		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	44,407.00	Y		
1.39) SEMITRAILER STAKE 2-3 AXLE NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	3	34,172.00	Y		

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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
1.40) SEMITRAILER STAKE 2-3 AXLE 20 TON 40-55 FT WITH STAKES		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	33,462.00	Y		
1.41) SEMITRAILER STAKE 2-3 AXLE 20 TON 40-55 FT WITHOUT STAKES		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	13	33,462.00	Y		
1.42) SEMITRAILER TANK 5000 GALLON AND UP GP		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	198,144.00	Y		
1.43) SEMITRAILER TANK FUEL SERV 5500 GALLON		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	5	198,440.00	Y		
1.44) SEMITRAILER TANK GENERAL PURPOSE 6000 GALLON AND UP NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	77,620.00	Y		
1.45) SEMITRAILER TANK GENERAL PURPOSE 4001-5999 GALLON NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	113,833.00	Y		
1.46) SEMITRAILER VAN REFRIGERATOR 2 AXLE NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	105,456.00	Y		
1.47) SEMITRAILER VAN 2 AXLE 20 TON 40-55 FT		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	30,420.00	Y		
1.48) TRAILER CABLE REEL NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	15,798.00	Y		
1.49) TRAILER HYDRAULIC ELEVATING BODY NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	18,252.00	Y		
1.50) TRAILER HYDRAULIC ELEVATING BODY 15000 LB PAYLOAD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	35,490.00	Y		
1.51) TRAILER LOWBED 18001 GVWR AND UP STATIONARY AXLE		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	18,252.00	Y		
1.52) TRAILER LOWBED TILT DECK 2 OR 4 WHEEL NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	3	70,717.00	Y		
1.53) TRAILER, EQUIPMENT, ELEVATING/DROP DECK		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	25,350.00	Y		
1.54) TRAILER LOWBED TILT DECK TANDEM AXLE UP TO 6 TON		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	5	35,490.00	Y		

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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
1.55) TRUCK DUMP 3 CY 21000 GVWR		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	43,957.00	Y		
1.56) TRUCK DUMP 5 CY 28000 GVWR		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	86,798.00	Y		
1.57) TRUCK CARGO PICKUP COMPACT 4X2 UP TO 6100 GVWR EXTENDED CAB		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	29,609.00	Y		
1.58) TRUCK DUMP 5 CY 28000 GVWR 4X4 RHD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	81,120.00	Y		
1.59) TRUCK DUMP 3 CY 21000 GVWR RHD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	36,504.00	Y		
1.60) TRUCK MAINTENANCE OVERHEAD AERIAL SERVICE NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	198,176.00	Y		
1.61) TRUCK MAINTENANCE POLE AND LINE NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	177,629.00	Y		
1.62) TRUCK MAINTENANCE POLE AND LINE WITH ROTATING HYDRAULIC DERRICK		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	5	284,732.00	Y		
1.63) TRUCK MAINTENANCE UTILITY 8501 GVWR AND UP CREW CAB 4X2		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	32	35,490.00	Y		
1.64) TRUCK MAINTENANCE UTILITY 6001-8500 GVWR CREW CAB 4X4		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	42,588.00	Y		
1.65) TRUCK MAINTENANCE TELEPHONE/UTILITY 4X2/4X4 NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	72,501.00	Y		
1.66) TRUCK MAINTENANCE UTILITY 6001-8500 GVWR REGULAR/EXTENDED CAB 4X4		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	31,434.00	Y		
1.67) TRUCK MATERIAL HANDLING CHAIN/CABLE HOIST/HAUL NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	8	155,414.00	Y		
1.68) TRUCK MOUNTED OVERHEAD AERIAL SERVICE ARTICULATING NON-OVER CENTER		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	106,470.00	Y		
1.69) TRUCK MOUNTED OVERHEAD AERIAL SERVICE ARTICULATING NON-OVER CENTER 60'		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	121,680.00	Y		

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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
1.70) TRUCK MOUNTED OVERHEAD AERIAL SERVICE RHD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	4	131,313.00	Y		
1.71) TRUCK PANEL VAN UTILITY 4X2 8501 GVWR AND UP		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	43	39,546.00	Y		
1.72) TRUCK PANEL VAN UTILITY 4X2 6001 TO 8500 GVWR		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	8	34,577.00	Y		
1.73) TRUCK REEL HANDLING/ TENSIONING POWERED NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	165,526.00	Y		
1.74) TRUCK TANK AVGAS/ JETFUEL 5000-6000 GALLON		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	8	178,190.00	Y		
1.75) TRUCK STAKE 21000 GVWR AND UP NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	103,489.00	Y		
1.76) TRUCK STAKE 6X4 43000 GVWR NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	170,352.00	Y		
1.77) TRUCK STAKE 21000 GVWR AND UP 12-22 FT BED REGULAR CAB		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	4	60,000.00	Y		
1.78) TRUCK STAKE 24000 GVWR RHD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	5	68,952.00	Y		
1.79) TRUCK STAKE 6X4 43000 GVWR RHD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	162,240.00	Y		
1.80) TRUCK STAKE 25500 GVWR AND UP 12-18 FT BED		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	66,518.00	Y		
1.81) TRUCK TANK FUEL SERVICING 2000 GALLON NONSTANDARD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	6	105,176.00	Y		
1.82) TRUCK TANK FUEL SERVICING 1 SYSTEM 1 TANK		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	4	105,176.00	Y		
1.83) TRUCK TANK FUEL SERVICING 2 SYSTEM 2 TANK		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	4	105,176.00	Y		
1.84) TRUCK TANK FUEL SERVICING 2K 1 SYS 1 TNK RHD JAPAN		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	3	105,405.00	Y		
1.85) TRUCK TANK FUEL 4X4		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	4	253,475.00	Y		
1.86) TRUCK TRACTOR 6X4 52000 GVWR 85000 GCVWR		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	152,100.00	Y		
1.87) TRUCK TRACTOR 32000 GVWR RHD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	109,512.00	Y		

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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
1.88) TRUCK TRACTOR 32000 GVWR 55000 GCVWR		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	103,428.00	Y		
1.89) TRUCK VAN 21000 GVWR RHD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	6	45,630.00	Y		
1.90) TRUCK VAN 24000 GVWR RHD		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	2	74,529.00	Y		
1.91) TRUCK VAN 25500 GVWR 12 FT-18 FT BODY		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	74,529.00	Y		
1.95) TRUCK WRECKER ROLLBACK		2020	Unknown / Unknown	C / TBD	DLA	Oct 2019	Oct 2019	1	121,448.00	Y		
2) COMBAT CONSTRUCTION SUPPORT EQUIPMENT												
2.1) EXPEDITIONARY FACILITIES - INTEGRATED BERTHING 48 PERSON		2019	Unknown / Unknown	C / TBD	DLA	Jan 2019	Jan 2020	21	379,216.00	Y		
2.3) CONTAINER, REFRIGERATION, STANDARD 20FT		2018	Unknown / Unknown	MIPR	Army	Feb 2019	Aug 2019	15	141,000.00	Y		
2.3) CONTAINER, REFRIGERATION, STANDARD 20FT		2019	Unknown / Unknown	MIPR	Army	May 2019	May 2019	4	143,820.00	Y		
2.4) CONTAINERS		2016	MainstreamEngineering Corporation / Rockledge FL	MIPR	DLA	May 2016	Dec 2016	11	21,988.00	Y		
2.4) CONTAINERS		2018	MainstreamEngineering Corporation / Rockledge FL	MIPR	DLA	Sep 2018	Feb 2019	51	22,809.00	Y		
2.5) EXPEDITIONARY FACILITY		2016	VARIOIUS / VARIOUS	MIPR	DLA	Jun 2016	Nov 2016	5	696,197.00	Y		
2.5) EXPEDITIONARY FACILITY		2017	VARIOIUS / VARIOUS	MIPR	DLA	Jan 2017	Jun 2017	5	805,151.00	Y		
2.5) EXPEDITIONARY FACILITY		2018	VARIOIUS / VARIOUS	MIPR	DLA	Sep 2018	Feb 2019	6	722,195.00	Y		
2.6) EXPEDITIONARY FACILITY (RESERVE FORCES)		2016	VARIOIUS / VARIOUS	MIPR	DLA	Sep 2016	Feb 2017	2	696,197.00	Y		
2.7) EXPEDITIONARY FACILITY- TACTICAL OPERATION COMMAND		2019	Unknown / Unknown	MIPR	DLA	May 2019	May 2020	25	360,252.00	Y		
2.8) EXPEDITIONARY FACILITY- COMMAND OPERATIONS CCENTER - MEDIUM		2019	Unknown / Unknown	MIPR	DLA	Mar 2019	Mar 2020	4	920,000.00	Y		
2.9) EXPEDITIONARY FACILITIES - GALLEY		2020	Unknown / Unknown	MIPR	DLA	Mar 2020	Dec 2020	3	743,419.67	Y		
2.11) Expeditionary Facilities - Field Kitchen		2020	Unknown / Unknown	C / TBD	DLA	May 2020	May 2020	20	250,000.00	Y		

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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
2.13) MANPORTABLE WATER FILTRATION		2018	Unknown / Unknown	MIPR	USMC	Feb 2019	Aug 2019	4	22,000.00	Y		
3) MOBILE UTILITIES SUPPORT EQUIPMENT												
3.1) MOBILE UTILITIES SUPPORT EQUIPMENT		2016	Argo Systems, LLC / Hanover, MD	C / FFP	NAVFAC	May 2016	May 2017	1	900,000.00	Y		
3.1) MOBILE UTILITIES SUPPORT EQUIPMENT		2017	Argo Systems, LLC / Hanover, MD	C / FFP	NAVFAC	Oct 2017	Oct 2018	1	847,000.00	Y		
3.1) MOBILE UTILITIES SUPPORT EQUIPMENT		2018	Argo Systems, LLC / Hanover, MD	C / FFP	NAVFAC	Sep 2018	Sep 2019	1	909,000.00	Y		
3.2) AUXILIARY DIESEL GENERATORS		2019	Unknown / Unknown	C / TBD	** NO PCO **	Dec 2018	Dec 2019	1	49,000.00	Y		
3.3) DIESEL GENERATORS (4160V)		2019	Unknown / Unknown	C / TBD	NAVFAC	Jun 2019	Jun 2020	3	1,221K	Y		
3.3) DIESEL GENERATORS (4160V)		2020	Unknown / Unknown	C / TBD	NAVFAC	Feb 2020	Feb 2020	3	1,250K	Y		
3.4) TIER-2 COMPLIANT CUMMINS ENGINES		2019	Unknown / Unknown	C / TBD	NAVFAC	Jun 2019	Jun 2020	1	300,000.00	Y		
3.5) 2000 AMP, 5KV/15KV LOAD DISTRIBUTION SWITCHGEAR		2019	Unknown / Unknown	C / TBD	NAVFAC	Jun 2019	Jun 2020	1	1,500K	Y		
3.5) 2000 AMP, 5KV/15KV LOAD DISTRIBUTION SWITCHGEAR		2020	Unknown / Unknown	C / TBD	NAVFAC	Feb 2020	Feb 2020	1	1,536K	Y		
3.6) 2500 KVA, 5KV/15KV TRANSFORMER		2019	Unknown / Unknown	C / TBD	NAVFAC	Feb 2019	Feb 2020	1	150,000.00	Y		
3.6) 2500 KVA, 5KV/15KV TRANSFORMER		2020	Unknown / Unknown	C / TBD	NAVFAC	Oct 2019	Oct 2019	2	153,000.00	Y		
3.7) 3750 KVA, 5KV/480 V TRANSFORMER		2019	Unknown / Unknown	C / TBD	NAVFAC	Jan 2019	Jan 2020	1	400,000.00	Y		
3.7) 3750 KVA, 5KV/480 V TRANSFORMER		2020	Unknown / Unknown	C / TBD	NAVFAC	Oct 2019	Oct 2019	1	413,666.00	Y		
3.8) 5000 AMP, 480 V LOAD DISTRIBUTION SWITCHGEAR		2019	Unknown / Unknown	C / TBD	NAVFAC	Jan 2019	Jan 2020	1	1,000K	Y		
3.8) 5000 AMP, 480 V LOAD DISTRIBUTION SWITCHGEAR		2020	Unknown / Unknown	C / TBD	NAVFAC	Oct 2019	Oct 2019	1	1,026K	Y		
3.9) 3200 AMP, 480 V MOBILE POWER MOUND AND MISC. AND CONNECTORS		2019	Unknown / Unknown	C / TBD	NAVFAC	Jan 2019	Jan 2020	1	300,000.00	Y		
3.9) 3200 AMP, 480 V MOBILE POWER MOUND AND MISC. AND CONNECTORS		2020	Unknown / Unknown	C / TBD	NAVFAC	Oct 2019	Oct 2019	1	306,000.00	Y		
4) OCEAN CONSTRUCTION EQUIPMENT												

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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
4.1) OCEAN CONSTRUCTION EQUIPMENT		2016	ADS Operational Equipment and Logistics Support / Virginia Beach, VA	C / FFP	NAVFAC	Mar 2016	Jul 2016	4	75,000.00	Y		
4.1) OCEAN CONSTRUCTION EQUIPMENT		2017	ADS Operational Equipment and Logistics Support / Virginia Beach, VA	C / FFP	NAVFAC	Oct 2017	Feb 2018	4	59,000.00	Y		
4.1) OCEAN CONSTRUCTION EQUIPMENT		2018	ADS Operational Equipment and Logistics Support / Virginia Beach, VA	C / FFP	NAVFAC	Sep 2018	Jan 2019	4	91,000.00	Y		
4.1) OCEAN CONSTRUCTION EQUIPMENT		2019	ADS Operational Equipment and Logistics Support / Virginia Beach, VA	C / FFP	NAVFAC	Mar 2019	Mar 2019	4	73,250.00	Y		
4.1) OCEAN CONSTRUCTION EQUIPMENT		2020	ADS Operational Equipment and Logistics Support / Virginia Beach, VA	C / TBD	NAVFAC	Mar 2020	Mar 2020	4	61,250.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment							P-1 Line Item Number / Title: 6075 / Physical Security Vehicles					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.598	1.170	1.155	1.173	0.000	1.173	1.192	1.194	1.220	1.245	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.598	1.170	1.155	1.173	0.000	1.173	1.192	1.194	1.220	1.245	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.598	1.170	1.155	1.173	0.000	1.173	1.192	1.194	1.220	1.245	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 budget line item funds procurement of physical security vehicles to include armored sedans and armored cargo/utility trucks assigned to Antiterrorism (AT), Counterintelligence (CI), and Counternarcotics (CN) missions in high threat OCONUS locations. Sedans and cargo/utility trucks are armored to various levels of protection and are on platforms of varying sizes and gross vehicle weights, dependent upon the level of threat and the operating environment. These vehicles are generically referred to as either Commercial Heavy Armored Vehicles (CHAVs) or Commercial Light Armored Vehicles (CLAVs).												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 05: Civil Engineering Support Equip / BSA 1: Civil Engineering Support Equipment						P-1 Line Item Number / Title: 6075 / Physical Security Vehicles				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Physical Security Vehicles	P-5a			- / 1.598	- / 1.170	- / 1.155	- / 1.173	- / -	- / 1.173
P-40	Total Gross/Weapon System Cost				- / 1.598	- / 1.170	- / 1.155	- / 1.173	- / 0.000	- / 1.173
*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.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1							P-1 Line Item Number / Title: 6075 / Physical Security Vehicles								Aggregated Items Title: Physical Security Vehicles					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) HEAVY ARMORED VEHICLES																				
1.1) AUTOMOBILE SEDAN ARMORED HEAVY ^(†)	A		439,000.00	1	0.439	448,000.00	1	0.448	457,000.00	1	0.457	466,000.00	1	0.466	-	-	-	466,000.00	1	0.466
1.2) 4X4 4 DOOR 6 PASS HEAVY ARMORED ^(†)	A		268,000.00	1	0.268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) HEAVY ARMORED VEHICLES			-	-	0.707	-	-	0.448	-	-	0.457	-	-	0.466	-	-	-	-	-	0.466
2) LIGHT ARMORED VEHICLES																				
2.1) 4X4 4 DOOR 6 PASS LIGHT ARMORED ^(†)	A		222,750.00	4	0.891	180,500.00	4	0.722	174,500.00	4	0.698	176,750.00	4	0.707	-	-	-	176,750.00	4	0.707
Subtotal: 2) LIGHT ARMORED VEHICLES			-	-	0.891	-	-	0.722	-	-	0.698	-	-	0.707	-	-	-	-	-	0.707
Total			-	-	1.598	-	-	1.170	-	-	1.155	-	-	1.173	-	-	-	-	-	1.173

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 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 05 / 1			P-1 Line Item Number / Title: 6075 / Physical Security Vehicles						Aggregated Items: Physical Security Vehicles			
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) HEAVY ARMORED VEHICLES												
1.1) AUTOMOBILE SEDAN ARMORED HEAVY		2018	Unknown / Unknown	MIPR	RPSO	Feb 2019	Jul 2019	1	448,000.00	Y		
1.1) AUTOMOBILE SEDAN ARMORED HEAVY		2019	Unknown / Unknown	MIPR	RPSO	Jun 2019	Jun 2019	1	457,000.00	Y		
1.1) AUTOMOBILE SEDAN ARMORED HEAVY		2020	Unknown / Unknown	MIPR	RPSO	Feb 2020	Feb 2020	1	466,000.00	Y		
1.2) 4X4 4 DOOR 6 PASS HEAVY ARMORED		2017	O'Gara Armoring / Fairfield, OH	MIPR	RPSO	Oct 2018	Mar 2019	1	268,000.00	Y		
2) LIGHT ARMORED VEHICLES												
2.1) 4X4 4 DOOR 6 PASS LIGHT ARMORED		2017	Square One Armoring Services / Miami, FL	MIPR	RPSO	Oct 2017	Mar 2018	4	206,750.00	Y		
2.1) 4X4 4 DOOR 6 PASS LIGHT ARMORED		2018	Square One Armoring Services / Miami, FL	MIPR	RPSO	Sep 2018	Feb 2019	4	180,500.00	Y		
2.1) 4X4 4 DOOR 6 PASS LIGHT ARMORED		2019	Unknown / Unknown	MIPR	RPSO	Jul 2019	Jul 2019	4	174,500.00	Y		
2.1) 4X4 4 DOOR 6 PASS LIGHT ARMORED		2020	Unknown / Unknown	MIPR	RPSO	Feb 2020	Feb 2020	4	176,750.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment						P-1 Line Item Number / Title: 7025 / Supply Equipment						
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: 0708012N					Other Related Program Elements: 0204413N, 0204996N				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	22.309	17.386	16.730	0.100	16.830	20.056	24.381	21.321	21.747	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	22.309	17.386	16.730	0.100	16.830	20.056	24.381	21.321	21.747	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	22.309	17.386	16.730	0.100	16.830	20.056	24.381	21.321	21.747	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

MATERIAL HANDLING EQUIPMENT (MHE): This program funds the procurement of Material Handling Equipment to satisfy operational requirements and replaces overaged non-repairable equipment used in material handling operations at world-wide Navy activities. Major using activities include ships, naval magazines, air stations, weapon stations, and overseas support activities such as Sigonella and Sasebo. The MHE program also funds General Fund activities to meet known operational requirements for replacement of equipment which has exceeded its economic life. Overaged equipment is not cost effective to maintain for continued operation, and repair parts are difficult to obtain. Replacement of overaged equipment with new and more efficient models will reduce excessive costs attributed to repair/overhaul, downtime and maintenance. New equipment will enhance productivity and enable stations to meet handling and logistics requirements in an efficient and effective manner.

NAVY CASH PROGRAM: This program funds the procurement of the Navy Cash system. Navy Cash was developed in partnership with the US Department of Treasury to improve business processes, create workload efficiencies, and enhance the quality of life for Sailors and Marines on board ship. It enhances the efficiencies and security of automated pay delivery and safekeeping.

Navy Cash system provides critical regulatory and Financial Improvement and Audit Readiness (FIAR) compliance standards mandated by DoD and Department of Treasury for achieving audit readiness of financial statements. Navy Cash system performs daily reporting of financial accountability which corrects an OUSD identified material weakness. Deployments are ongoing and are dependent on ship schedules and CNO availabilities.

The legacy Navy Cash environment is dependent on a specific hardware and software environment that is costly to maintain and reaching end-of-life on key operating components. Navy Cash 2.0/Europay, Mastercard, Visa (EMV) is the next logical progression in cashless operations that will enhance the current Navy Cash solution and support interoperability with all other DoD service partners (Army, AF, USMC).

The Navy Cash card is a branded debit card that looks like a typical debit or check card. It utilizes a pre-paid debit model to provide deployed Sailors and Marines 24/7 access to pay, and enables a cashless shipboard environment for all retail and other personal financial transactions. In addition, Navy Cash cards are an important tool for deployed Sailors and Marines to obtain cash at any worldwide ATM ashore.

Navy Cash reduces workload for the Disbursing Office and other retail merchants through out the ship including Ships Store, Food Service, Postal and MWR. This affords more time for core functions and thereby increases readiness. It also improves shipboard business practices by automating and significantly reducing the handling of bills, coins, personal checks, and money orders, automating back-end financial processes and minimizing error-prone cash transactions while it reduces the workload associated with cash management and improves the efficiency and accuracy of fiscal accountability. This overall reduction in the need for cash decreases the costs associated with maintaining large amounts of cash in the safes of ships for the six or more months of deployment.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment		P-1 Line Item Number / Title: 7025 / Supply Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0708012N	Other Related Program Elements: 0204413N, 0204996N
Line Item MDAP/MAIS Code: N/A		
Ship Availabilities for Navy Cash Program: 2018 15 Availabilities (10 Small / 4 Med / 0 Large / 1 CVN) 2019 26 Availabilities (17 Small / 5 Med / 1 Large / 3 CVN) 2020 26 Availabilities (17 Small / 6 Med / 0 Large / 3 CVN) 2021 27 Availabilities (12 Small / 8 Med / 4 Large / 3 CVN) 2022 22 Availabilities (18 Small / 2 Med / 2 Large / 0 CVN) 2023 20 Availabilities (13 Small / 4 Med / 2 Large / 1 CVN) 2024 19 Availabilities (13 Small / 4 Med / 2 Large / 0 CVN) AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT): The Department of Defense (DoD) promulgated Radio Frequency Identification (RFID) Policy on 30 July 2004. Current DoD RFID policy focuses on In-Transit Visibility (ITV) support of the Combatant Commanders (COCOMs) as the primary application of active RFID (aRFID), and DoD Supply Management applications for passive RFID. This effort will ensure Fleet and component commands have deployable aRFID capability to support contingencies and DoD/Navy RFID policy. Navy has invested in and taken action to support implementation of 35 CONUS and OCONUS locations with an additional 16 locations projected for completion by the end of FY18. These funds represent the Navy costs for the initial outfitting and life cycle costs to fully fund all currently identified COCOM ITV requirements. The Navy also has vested interests with 16 additional Army funded CONUS and OCONUS aRFID Read nodes residing on Navy property which greatly enhances the Radio Frequency In-Transit Visibility (RF-ITV) of Navy aRFID tagged assets. The Navy continues to coordinate with the Army's Automated Movement and Identification Solutions (AMIS) for all aRFID and DOD AIT RF-ITV Contract installations, upgrades, hardware, software and infrastructure procurement requirements for Navy sites.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment						P-1 Line Item Number / Title: 7025 / Supply Equipment				
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: 0708012N			Other Related Program Elements: 0204413N, 0204996N				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Supply Equipment (Materials Handling Equipment)	P-5a			- / 0.000	- / 18.583	- / 13.786	- / 13.513	- / 0.100	- / 13.613
P-5	1 / Supply Equipment (Other Supply Support Equipment)				- / 0.000	- / 3.726	- / 3.600	- / 3.217	- / 0.000	- / 3.217
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 22.309	- / 17.386	- / 16.730	- / 0.100	- / 16.830
*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: Funding is to procure the new requirement for Material Handling Equipment for one 25,000 lb 1433, and the replacement requirement of thirty seven 6,000 lb 1330, twenty four 4,000 lb 1390 shipboard, thirteen 4,000 lb 1370 shipboard, eight 15,000 lb 1340 and 34,000 lb 1340, nine 6,000 lb 1370. It also procures a number of 20,000 lb 1200 shipboard, 30,000 lb 1200 shipboard, and 20,000 lb 1340 shipboard to replace aged equipment to improve safety and efficiency. OCO: OCO funding is to procure the Material Handling Equipment replacement requirement of one 4,000 lb 1300 and one 10,000 lb 1340.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1								P-1 Line Item Number / Title: 7025 / Supply Equipment							Aggregated Items Title: Supply Equipment (Materials Handling Equipment)					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) New Requirements																				
1.1) 4,000 lb 1330 (W4001) ^(†)	A		-	-	-	34,006.00	1	0.034	-	-	-	-	-	-	-	-	-	-	-	-
1.2) 6,000 lb 1330 (W4001) ^(†)	A		-	-	-	34,385.00	1	0.034	-	-	-	-	-	-	-	-	-	-	-	-
1.3) 15,000 lb 1340 (W4001) ^(†)	A		-	-	-	77,000.00	3	0.231	-	-	-	-	-	-	-	-	-	-	-	-
1.4) 30,000 lb 1340 (W4001) ^(†)	A		-	-	-	212,000.00	1	0.212	-	-	-	-	-	-	-	-	-	-	-	-
1.5) 25,000 lb 1433 (W4005) ^(†)	A		-	-	-	913,707.00	2	1.827	926,508.00	1	0.927	945,038.00	1	0.945	-	-	-	945,038.00	1	0.945
1.9) 5700 MCRRS Deck Cleaning System ^(†)	A		-	-	-	663,000.00	1	0.663	-	-	-	-	-	-	-	-	-	-	-	-
1.12) Non-Powered MHE	A		-	-	-	-	-	0.028	-	-	-	-	-	0.009	-	-	0.001	-	-	0.010
Subtotal: 1) New Requirements			-	-	0.000	-	-	3.029	-	-	0.927	-	-	0.954	-	-	0.001	-	-	0.955
2) Replacement Program																				
2.1) 4,000 lb 1300 (W4001) ^(†)	A		-	-	-	-	-	-	29,006.00	2	0.058	29,586.00	3	0.089	29,586.00	1	0.030	29,586.00	4	0.119
2.2) 6,000 lb 1300 (W4001) ^(†)	A		-	-	-	33,278.00	2	0.067	33,943.00	5	0.170	34,622.00	5	0.173	-	-	-	34,622.00	5	0.173
2.4) 6,000 lb 1302 (W4001) ^(†)	A		-	-	-	33,414.00	3	0.100	34,082.00	5	0.170	34,764.00	3	0.104	-	-	-	34,764.00	3	0.104
2.5) 4,000 lb 1305 (W4001) ^(†)	A		-	-	-	30,182.00	2	0.060	30,785.00	4	0.123	31,401.00	5	0.157	-	-	-	31,401.00	5	0.157
2.6) 6,000 lb 1305 (W4001) ^(†)	A		-	-	-	33,323.00	5	0.167	33,990.00	4	0.136	34,670.00	7	0.243	-	-	-	34,670.00	7	0.243
2.9) 4,000 lb 1325 (W4001) ^(†)	A		-	-	-	29,787.00	6	0.179	30,383.00	5	0.152	30,991.00	5	0.155	-	-	-	30,991.00	5	0.155
2.10) 6,000 lb 1325 (W4001) ^(†)	A		-	-	-	37,194.00	2	0.074	37,938.00	2	0.076	38,697.00	4	0.155	-	-	-	38,697.00	4	0.155
2.11) 6,000 lb 1330 (W4001) ^(†)	A		-	-	-	33,279.00	30	0.998	33,944.00	29	0.984	34,623.00	37	1.281	-	-	-	34,623.00	37	1.281
2.12) 10,000 lb 1340 (W4001) ^(†)	A		-	-	-	66,429.00	4	0.266	67,757.00	6	0.407	69,112.00	7	0.484	69,112.00	1	0.069	69,112.00	8	0.553
2.13) 15,000 lb 1340 (W4001) ^(†)	A		-	-	-	71,587.00	11	0.787	73,018.00	11	0.803	74,478.00	8	0.596	-	-	-	74,478.00	8	0.596

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1							P-1 Line Item Number / Title: 7025 / Supply Equipment								Aggregated Items Title: Supply Equipment (Materials Handling Equipment)					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
2.14) 20,000 lb 1340 (W4001) ^(†)	A		-	-	-	132,691.00	2	0.265	135,345.00	3	0.406	138,052.00	1	0.138	-	-	-	138,052.00	1	0.138
2.15) 20,000 lb 1340 (W4001) Shipboard ^(†)	A		-	-	-	-	-	-	166,373.00	5	0.832	169,700.00	3	0.509	-	-	-	169,700.00	3	0.509
2.16) 34,000 lb 1340 (W4001) ^(†)	A		-	-	-	168,215.00	2	0.336	171,580.00	4	0.686	175,012.00	8	1.400	-	-	-	175,012.00	8	1.400
2.17) 10,000 lb 1343 (W4001) ^(†)	A		-	-	-	83,824.00	6	0.503	85,400.00	5	0.427	-	-	-	-	-	-	-	-	-
2.20) 6,000 lb 1350 (W4001) Shipboard ^(†)	A		-	-	-	60,693.00	5	0.303	61,907.00	2	0.124	-	-	-	-	-	-	-	-	-
2.21) 6,000 lb 1351 (W4001) Shipboard ^(†)	A		-	-	-	80,855.00	34	2.749	82,473.00	11	0.907	-	-	-	-	-	-	-	-	-
2.22) 4,000 lb 1370 (W4001) ^(†)	A		-	-	-	29,417.00	9	0.265	30,005.00	7	0.210	30,605.00	5	0.153	-	-	-	30,605.00	5	0.153
2.23) 6,000 lb 1370 (W4001) ^(†)	A		-	-	-	35,617.00	6	0.214	36,330.00	8	0.291	37,057.00	9	0.334	-	-	-	37,057.00	9	0.334
2.24) 4,000 lb 1370 (W4001) Shipboard ^(†)	A		-	-	-	69,072.00	35	2.418	70,454.00	16	1.127	71,417.00	13	0.928	-	-	-	71,417.00	13	0.928
2.27) 4,000 lb 1390 (W4001) Shipboard ^(†)	A		-	-	-	117,744.00	34	4.003	120,099.00	24	2.882	122,501.00	24	2.940	-	-	-	122,501.00	24	2.940
2.29) 10,000 lb 1820 (W4001) Shipboard ^(†)	A		-	-	-	193,277.00	1	0.193	-	-	-	-	-	-	-	-	-	-	-	-
2.35) 4,000 lb 1125 (W4003) ^(†)	A		-	-	-	-	-	-	43,980.00	2	0.088	-	-	-	-	-	-	-	-	-
2.37) 20,000 lb 1200 (W4004) Shipboard ^(†)	A		-	-	-	165,506.00	2	0.331	168,816.00	5	0.844	172,192.00	5	0.861	-	-	-	172,192.00	5	0.861
2.38) 30,000 lb 1200 (W4004) Shipboard ^(†)	A		-	-	-	295,642.00	4	1.183	301,555.00	3	0.905	307,586.00	6	1.846	-	-	-	307,586.00	6	1.846
2.41) 6,000 lb Manual Pallet Jack (Shipboard) ^(†)	A		-	-	-	6,190.00	15	0.093	6,314.00	8	0.051	6,440.00	2	0.013	-	-	-	6,440.00	2	0.013
Subtotal: 2) Replacement Program			-	-	0.000	-	-	15.554	-	-	12.859	-	-	12.559	-	-	0.099	-	-	12.658
Total			-	-	0.000	-	-	18.583	-	-	13.786	-	-	13.513	-	-	0.100	-	-	13.613
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																				

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 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1			P-1 Line Item Number / Title: 7025 / Supply Equipment						Aggregated Items: Supply Equipment (Materials Handling 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) New Requirements												
1.1) 4,000 lb 1330 (W4001)		2018	Toyota Material Handling Ohio Inc. / Columbus, OH	C / FP	DSC Philadelphia	Sep 2018	Feb 2019	1	34,006.00	Y		Sep 2018
1.2) 6,000 lb 1330 (W4001)		2018	American Material Handling Inc / Watkinsville, GA	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	1	34,385.00	Y		
1.3) 15,000 lb 1340 (W4001)		2018	Advanced Material Handling LLC / Lithia Springs, GA	C / FP	DSC Philadelphia	Nov 2018	Apr 2019	1	66,866.00	Y		
1.3) 15,000 lb 1340 (W4001)	✓	2018	Advanced Material Handling LLC / Lithia Springs, GA	C / FP	DSC Philadelphia	Sep 2018	Apr 2019	2	82,000.00	Y		
1.4) 30,000 lb 1340 (W4001)		2018	Hoist Lift Mfg. / Bedford Park, IL	C / FP	DSC Philadelphia	Mar 2018	Oct 2018	1	212,000.00	Y		
1.5) 25,000 lb 1433 (W4005)		2018	Wright & Wright / Kentucky	C / FP	DSC Philadelphia	Dec 2017	Jun 2018	2	913,707.00	Y		
1.5) 25,000 lb 1433 (W4005)		2019	Wright & Wright / Kentucky	C / FP	DSC Philadelphia	Dec 2018	Jun 2019	1	926,508.00	Y		
1.5) 25,000 lb 1433 (W4005)		2020	Wright & Wright / Kentucky	C / FP	DSC Philadelphia	Dec 2019	Jun 2020	1	945,038.00	Y		
1.9) 5700 MCRS Deck Cleaning System		2018	Trivaris Ltd. / Canada	C / FP	DSC Philadelphia	Feb 2018	Aug 2018	1	663,000.00	Y		
2) Replacement Program												
2.1) 4,000 lb 1300 (W4001)		2019	Hyster / CA	C / FP	DSC Philadelphia	Dec 2018	Jul 2019	2	29,006.00	Y		
2.1) 4,000 lb 1300 (W4001)		2020	Hyster / CA	C / FP	DSC Philadelphia	Dec 2019	Jul 2020	3	29,586.00	Y		
2.1) 4,000 lb 1300 (W4001)	✓	2020	Hyster / CA	C / TBD	** NO PCO **	Oct 2019	Oct 2019	1	29,586.00	N		
2.2) 6,000 lb 1300 (W4001)		2018	Raymond / CA	C / FP	DSC Philadelphia	Nov 2017	May 2018	2	33,278.00	Y		
2.2) 6,000 lb 1300 (W4001)		2019	Raymond / CA	C / FP	DSC Philadelphia	Nov 2018	May 2019	5	33,943.00	Y		
2.2) 6,000 lb 1300 (W4001)		2020	Raymond / CA	C / FP	DSC Philadelphia	Nov 2019	May 2020	5	34,622.00	Y		
2.4) 6,000 lb 1302 (W4001)		2018	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2017	Jun 2018	3	33,414.00	Y		
2.4) 6,000 lb 1302 (W4001)		2019	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	5	34,082.00	Y		
2.4) 6,000 lb 1302 (W4001)		2020	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2019	Jun 2020	3	34,764.00	Y		
2.5) 4,000 lb 1305 (W4001)		2018	Hyster / CA	C / FP	DSC Philadelphia	Nov 2017	Jun 2018	2	30,182.00	Y		
2.5) 4,000 lb 1305 (W4001)		2019	Hyster / CA	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	4	30,785.00	Y		
2.5) 4,000 lb 1305 (W4001)		2020	Hyster / CA	C / FP	DSC Philadelphia	Nov 2019	Jun 2020	5	31,401.00	Y		
2.6) 6,000 lb 1305 (W4001)		2018	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2017	Jun 2018	5	33,323.00	Y		
2.6) 6,000 lb 1305 (W4001)		2019	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	4	33,990.00	Y		
2.6) 6,000 lb 1305 (W4001)		2020	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2019	Jun 2020	7	34,670.00	Y		
2.9) 4,000 lb 1325 (W4001)		2018	Hyster / CA	C / FP	DSC Philadelphia	Oct 2017	May 2018	6	29,787.00	Y		
2.9) 4,000 lb 1325 (W4001)		2019	Hyster / CA	C / FP	DSC Philadelphia	Oct 2018	May 2019	5	30,383.00	Y		
2.9) 4,000 lb 1325 (W4001)		2020	Hyster / CA	C / FP	DSC Philadelphia	Oct 2019	May 2020	5	30,991.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1				P-1 Line Item Number / Title: 7025 / Supply Equipment				Aggregated Items: Supply Equipment (Materials Handling 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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.10) 6,000 lb 1325 (W4001)		2018	Hyster / CA	C / FP	DSC Philadelphia	Oct 2017	May 2018	2	37,194.00	Y		
2.10) 6,000 lb 1325 (W4001)		2019	Hyster / CA	C / FP	DSC Philadelphia	Oct 2018	May 2019	2	37,938.00	Y		
2.10) 6,000 lb 1325 (W4001)		2020	Hyster / CA	C / FP	DSC Philadelphia	Oct 2019	May 2020	4	38,697.00	Y		
2.11) 6,000 lb 1330 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Dec 2017	May 2018	30	33,279.00	Y		
2.11) 6,000 lb 1330 (W4001)		2019	NACCO / OH	C / FP	DSC Philadelphia	Dec 2018	May 2019	29	33,944.00	Y		
2.11) 6,000 lb 1330 (W4001)		2020	NACCO / OH	C / FP	DSC Philadelphia	Dec 2019	May 2020	37	34,623.00	Y		
2.12) 10,000 lb 1340 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Nov 2017	Jul 2018	4	66,429.00	Y		
2.12) 10,000 lb 1340 (W4001)		2019	NACCO / OH	C / FP	DSC Philadelphia	Nov 2018	Jul 2019	6	67,757.00	Y		
2.12) 10,000 lb 1340 (W4001)		2020	NACCO / OH	C / FP	DSC Philadelphia	Nov 2019	Jul 2020	7	69,112.00	Y		
2.12) 10,000 lb 1340 (W4001)	✓	2020	NACCO / OH	C / TBD	** NO PCO **	Oct 2019	Oct 2019	1	69,112.00	N		
2.13) 15,000 lb 1340 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Nov 2017	Jun 2018	11	71,587.00	Y		
2.13) 15,000 lb 1340 (W4001)		2019	NACCO / OH	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	11	73,018.00	Y		
2.13) 15,000 lb 1340 (W4001)		2020	NACCO / OH	C / FP	DSC Philadelphia	Nov 2019	Jun 2020	8	74,478.00	Y		
2.14) 20,000 lb 1340 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Nov 2017	Jul 2018	2	132,691.00	Y		
2.14) 20,000 lb 1340 (W4001)		2019	NACCO / OH	C / FP	DSC Philadelphia	Nov 2018	Jul 2019	3	135,345.00	Y		
2.14) 20,000 lb 1340 (W4001)		2020	NACCO / OH	C / FP	DSC Philadelphia	Nov 2019	Jul 2020	1	138,052.00	Y		
2.15) 20,000 lb 1340 (W4001) Shipboard		2019	Wesley / GA	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	5	166,373.00	Y		
2.15) 20,000 lb 1340 (W4001) Shipboard		2020	Wesley / GA	C / FP	DSC Philadelphia	Nov 2019	Jun 2020	3	169,700.00	Y		
2.16) 34,000 lb 1340 (W4001)		2018	Kalmar / TX	C / FP	DSC Philadelphia	Jan 2018	Sep 2018	2	168,215.00	Y		
2.16) 34,000 lb 1340 (W4001)		2019	Kalmar / TX	C / FP	DSC Philadelphia	Nov 2018	Jul 2019	4	171,580.00	Y		
2.16) 34,000 lb 1340 (W4001)		2020	Kalmar / TX	C / FP	DSC Philadelphia	Jul 2020	Jan 2021	8	175,012.00	Y		
2.17) 10,000 lb 1343 (W4001)		2018	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Jan 2018	Aug 2018	6	83,824.00	Y		
2.17) 10,000 lb 1343 (W4001)		2019	Liftking / Ontario, Canada	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	5	85,400.00	Y		
2.20) 6,000 lb 1350 (W4001) Shipboard		2018	Hyster / CA	C / FP	DSC Philadelphia	Dec 2017	Jun 2018	5	60,693.00	Y		
2.20) 6,000 lb 1350 (W4001) Shipboard		2019	Hyster / CA	C / FP	DSC Philadelphia	Dec 2018	Jun 2019	2	61,907.00	Y		
2.21) 6,000 lb 1351 (W4001) Shipboard		2018	Hyster / CA	C / FP	DSC Philadelphia	Nov 2017	Jul 2018	34	80,855.00	Y		
2.21) 6,000 lb 1351 (W4001) Shipboard		2019	Hyster / CA	C / FP	DSC Philadelphia	Nov 2018	Jul 2019	11	82,473.00	Y		
2.22) 4,000 lb 1370 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Nov 2017	Jun 2018	9	29,417.00	Y		
2.22) 4,000 lb 1370 (W4001)		2019	NACCO / OH	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	7	30,005.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1				P-1 Line Item Number / Title: 7025 / Supply Equipment					Aggregated Items: Supply Equipment (Materials Handling 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
2.22) 4,000 lb 1370 (W4001)		2020	NACCO / OH	C / FP	DSC Philadelphia	Jun 2020	Nov 2020	5	30,605.00	Y		
2.23) 6,000 lb 1370 (W4001)		2018	NACCO / OH	C / FP	DSC Philadelphia	Jan 2018	Aug 2018	6	35,617.00	Y		
2.23) 6,000 lb 1370 (W4001)		2019	NACCO / OH	C / FP	DSC Philadelphia	Nov 2018	Jun 2019	8	36,330.00	Y		
2.23) 6,000 lb 1370 (W4001)		2020	NACCO / OH	C / FP	DSC Philadelphia	Nov 2019	Jun 2020	9	37,057.00	Y		
2.24) 4,000 lb 1370 (W4001) Shipboard		2018	Wesley / GA	C / FP	DSC Philadelphia	Dec 2017	Aug 2018	35	69,072.00	Y		
2.24) 4,000 lb 1370 (W4001) Shipboard		2019	Wesley / GA	C / FP	DSC Philadelphia	Dec 2018	Aug 2019	16	70,454.00	Y		
2.24) 4,000 lb 1370 (W4001) Shipboard		2020	Wesley / GA	C / FP	DSC Philadelphia	Dec 2019	Aug 2020	13	71,417.00	Y		
2.27) 4,000 lb 1390 (W4001) Shipboard		2018	Wesley / GA	C / FP	DSC Philadelphia	Mar 2018	Dec 2018	34	117,744.00	Y		
2.27) 4,000 lb 1390 (W4001) Shipboard		2019	Wesley / GA	C / FP	DSC Philadelphia	Nov 2018	Aug 2019	24	120,099.00	Y		
2.27) 4,000 lb 1390 (W4001) Shipboard		2020	Wesley / GA	C / FP	DSC Philadelphia	Nov 2019	Aug 2020	24	122,501.00	Y		
2.29) 10,000 lb 1820 (W4001) Shipboard		2018	Wesley / GA	C / FP	DSC Philadelphia	Mar 2018	Oct 2018	1	193,277.00	Y		
2.35) 4,000 lb 1125 (W4003)		2019	NACCO / OH	C / FP	DSC Philadelphia	Nov 2018	Jul 2019	2	43,980.00	Y		
2.37) 20,000 lb 1200 (W4004) Shipboard		2018	Hyster / CA	C / FP	DSC Philadelphia	Mar 2018	Dec 2018	2	165,506.00	Y		
2.37) 20,000 lb 1200 (W4004) Shipboard		2019	Hyster / CA	C / FP	DSC Philadelphia	Oct 2018	Jul 2019	5	168,816.00	Y		
2.37) 20,000 lb 1200 (W4004) Shipboard		2020	Hyster / CA	C / FP	DSC Philadelphia	Oct 2019	Jul 2020	5	172,192.00	Y		
2.38) 30,000 lb 1200 (W4004) Shipboard		2018	TOYOTA MOTOR CO / California	C / FP	DSC Philadelphia	Mar 2018	Dec 2018	4	295,642.00	Y		
2.38) 30,000 lb 1200 (W4004) Shipboard		2019	TOYOTA MOTOR CO / California	C / FP	DSC Philadelphia	Oct 2018	Jul 2019	3	301,555.00	Y		
2.38) 30,000 lb 1200 (W4004) Shipboard		2020	TOYOTA MOTOR CO / California	C / FP	DSC Philadelphia	Oct 2019	Jul 2020	6	307,586.00	Y		
2.41) 6,000 lb Manual Pallet Jack (Shipboard)		2018	Wesley / GA	C / FP	DSC Philadelphia	Jan 2018	Jun 2018	15	6,190.00	Y		
2.41) 6,000 lb Manual Pallet Jack (Shipboard)		2019	Wesley / GA	C / FP	DSC Philadelphia	Jan 2019	Jun 2019	8	6,314.00	Y		
2.41) 6,000 lb Manual Pallet Jack (Shipboard)		2020	Wesley / GA	C / FP	DSC Philadelphia	Jan 2020	Jun 2020	2	6,440.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1	P-1 Line Item Number / Title: 7025 / Supply Equipment	Aggregated Items: Supply Equipment (Materials Handling Equipment)

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Exhibit P-5, Cost Analysis: PB 2020 Navy												Date: March 2019						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1						P-1 Line Item Number / Title: 7025 / Supply Equipment						Item Number / Title [DODIC]: 1 / Supply Equipment (Other Supply Support Equipment)						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				0.000		3.726		3.600		3.217		0.000		3.217				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				0.000		3.726		3.600		3.217		0.000		3.217				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				0.000		3.726		3.600		3.217		0.000		3.217				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
Support - Other Program Cost																		
1.1) Navy Cash Program	-	-	0.000	-	-	3.305	-	-	3.192	-	-	2.797	-	-	0.000	-	-	2.797
1.2) Automatic Identification Technology (AIT)	-	-	0.000	-	-	0.421	-	-	0.408	-	-	0.420	-	-	0.000	-	-	0.420
Subtotal: Support - Other Program Cost	-	-	0.000	-	-	3.726	-	-	3.600	-	-	3.217	-	-	0.000	-	-	3.217
Gross/Weapon System Cost	-	-	0.000	-	-	3.726	-	-	3.600	-	-	3.217	-	-	0.000	-	-	3.217

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment	P-1 Line Item Number / Title: 7066 / 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	41.733	5.992	5.875	5.389	0.510	5.899	6.168	6.272	6.372	6.501	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	41.733	5.992	5.875	5.389	0.510	5.899	6.168	6.272	6.372	6.501	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	41.733	5.992	5.875	5.389	0.510	5.899	6.168	6.272	6.372	6.501	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 FY 2020 funding request was reduced by .066 million to account for prior year execution balances.

First Destination Transportation (FDT). FDT delivers material from a procurement source to the first point of use or storage which may be in the Continental United States or overseas. The procurement source may be a supplier outside of the Department of Defense (DoD) supply system or a DoD activity which fabricates new material. FDT also includes transportation from point of origin to point of use or storage when Navy-owned material or equipment is provided to a contractor incident to a Research and Development project or a system/equipment acquisition or modification.

Prior to FY2014, all funds were allocated to and managed by Naval Supply Systems Command (NAVSUP). Starting in FY2014, funds have been decentralized for allocation, management and oversight by the following commands: Naval Air Systems Command (NAVAIR), Naval Supply Systems Command (NAVSUP), Naval Sea Systems Command (NAVSEA), Naval Facilities Engineering Command (NAVFAC), Strategic Systems Programs(SSP) and Space & Naval Warfare Systems Command (SPAWAR).

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy							Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment						P-1 Line Item Number / Title: 7066 / 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										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	First Destination Transportation				- / 41.733	- / 5.992	- / 5.875	- / 5.389	- / 0.510	- / 5.899
P-40	Total Gross/Weapon System Cost				- / 41.733	- / 5.992	- / 5.875	- / 5.389	- / 0.510	- / 5.899
*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:
 FY2020 funds are required for transportation costs for shipments of OPN-procured equipment and material to the first point of use or storage, or as Government Furnished Equipment/Government Furnished Material (GFE/GFM) provided to a contractor incident to an OPN-funded system/equipment acquisition or modification.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1							P-1 Line Item Number / Title: 7066 / First Destination Transportation								Aggregated Items Title: First Destination Transportation					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) First Destination Transportation																				
1.1) First Destination Transportation - NAVSUP	A		-	-	18.720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) First Destination Transportation - Strategic Systems Programs (SSP)	A		-	-	0.693	-	-	0.215	-	-	0.203	-	-	0.184	-	-	-	-	-	0.184
1.3) First Destination Transportation - SPAWAR	A		-	-	3.440	-	-	0.769	-	-	0.601	-	-	0.602	-	-	-	-	-	0.602
1.4) First Destination Transportation - NAVFAC	A		-	-	4.179	-	-	1.386	-	-	1.439	-	-	0.959	-	-	0.510	-	-	1.469
1.5) First Destination Transportation - NAVAIR	A		-	-	2.415	-	-	0.508	-	-	0.511	-	-	0.522	-	-	-	-	-	0.522
1.6) First Destination Transportation - NAVSEA	A		-	-	12.286	-	-	3.114	-	-	3.121	-	-	3.122	-	-	-	-	-	3.122
Subtotal: 1) First Destination Transportation			-	-	41.733	-	-	5.992	-	-	5.875	-	-	5.389	-	-	0.510	-	-	5.899
Total			-	-	41.733	-	-	5.992	-	-	5.875	-	-	5.389	-	-	0.510	-	-	5.899

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

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment							P-1 Line Item Number / Title: 7069 / Special Purpose Supply Systems					
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	3,800.527	482.916	580.371	654.674	0.000	654.674	781.603	792.432	962.740	983.420	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	3,800.527	482.916	580.371	654.674	0.000	654.674	781.603	792.432	962.740	983.420	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	3,800.527	482.916	580.371	654.674	0.000	654.674	781.603	792.432	962.740	983.420	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 funding reported in this line item is classified and is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. [P40A / CLASSIFIED]: The Cost Element labeled "Classified" supports classified efforts. Details with respect to these efforts are 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 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 06: Supply Support Equipment / BSA 1: Supply Support Equipment						P-1 Line Item Number / Title: 7069 / Special Purpose Supply Systems				
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Special Purpose Supply Systems				- / 3,800.527	- / 482.916	- / 580.371	- / 654.674	- / -	- / 654.674
P-40	Total Gross/Weapon System Cost				- / 3,800.527	- / 482.916	- / 580.371	- / 654.674	- / 0.000	- / 654.674
*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.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 06 / 1						P-1 Line Item Number / Title: 7069 / Special Purpose Supply Systems									Aggregated Items Title: Special Purpose Supply Systems					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) Special Purpose Supply Systems																				
1) CLASSIFIED	A		-	-	3,800.527	-	-	482.916	-	-	580.371	-	-	654.674	-	-	-	-	-	654.674
Subtotal: 1) Special Purpose Supply Systems			-	-	3,800.527	-	-	482.916	-	-	580.371	-	-	654.674	-	-	-	-	-	654.674
Total			-	-	3,800.527	-	-	482.916	-	-	580.371	-	-	654.674	-	-	-	-	-	654.674

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

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices						P-1 Line Item Number / Title: 8081 / Training 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	87.714	0.000	3.400	3.633	0.000	3.633	4.100	4.000	1.232	1.823	-	105.902
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	87.714	0.000	3.400	3.633	0.000	3.633	4.100	4.000	1.232	1.823	-	105.902
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	87.714	0.000	3.400	3.633	0.000	3.633	4.100	4.000	1.232	1.823	-	105.902
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
Battle Stations-21 (BST-21)): BST-21 is a facility that represents a 210-foot-long Arleigh Burke class destroyer and is the culminating training event for Recruit Training Command recruits to participate in a 12-hour simulation of 4 General Quarters scenarios and 13 shipboard scenarios that include engineering, lookout, and mass casualty drills. FY19-FY24 OPN funding would aid in the replacement of worn, outdated or obsolete equipment and technology, termed as life-cycle replacement. During a February 2015 Life-Cycle Sustainment assessment of BST-21, NAWCTSD identified two OPN issues: Information Assurance/ Cybersecurity and Tech Refresh/Upgrades. - Specifically, FY19-FY24 OPN funding would provide upgrades to the audiovisual systems, overall supervisory systems, training management systems, operating equipment, WIFI/LAN systems, UPS subsystems, and software modifications. - Commander, Naval Education and Training Command stated BST-21 is mandatory graduation requirement, and BST-21 is a Fleet requirement for Block 0 of the Ready, Relevant Learning initiative.												
[P40A / TRAINING SUPPORT EQUIPMENT]: Funding provides for the training support equipment / systems used in support of and connected to the Navy Continuous Training Environment (NCTE) as well as all of the equipment / systems required to support the Fleet's Live, Virtual, and Constructive (LVC) training capability. The Fleet's LVC training capability includes all training systems, network equipment, IT equipment, communications equipment, C4I systems, and training devices used in the U.S. Navy.												
[P40A / AA800 - LIFE CYCLE MANAGEMENT (NCTE)]: Navy Continuous Training Environment (NCTE): The NCTE is a distributed training architecture and network that interconnects eighty-three plus (83+) Navy, Joint and Coalition training sites. To maximize return on the training dollar, reduce overall operating expense, and support the global live, virtual, and constructive nature of the NCTE, the suite of equipment must be continuously maintained, upgraded and keep pace with mandated DISA and DoD requirements. Planned periodic replacement of hardware is essential to keep pace with technology upgrades, allow virtualization of the NCTE infrastructure, and end of life issues associated with existing equipment. The upgrades/spare parts are vital to the Fleet's LVC training capability used by the U.S. Navy and Joint Services to prepare for deployment.												
[P40A / AA800 - BALLISTIC MISSILE DEFENSE (BMD)]: Ballistic Missile Defense (BMD) training equipment is required for the Navy to conduct BMD synthetic training events (BMDEX, Fleet Synthetic Training (FST) and FST at Sea) and shipboard qualification / certification events. The Navy has BMD-capable ships that must be adequately trained to meet operational BMD mission tasking to employ weapons systems, and to attain the BMD qualification required for deployment certification. TYCOMs, Numbered Fleet Commanders (NFC), and Afloat Training Groups (ATG) / Tactical Training Groups are responsible for the training, qualification, and certification of BMD ships and units. The integrated/advanced phase training and BMD qualification is a quarterly unit training requirement. This funds necessary equipment to support BMD training. The Fleet's LVC training capability funds the necessary equipment to support BMD training used by the U.S. Navy.												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8081 / Training 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		
[P40A / AA800 - BMD FST AT SEA]: Ballistic Missile Defense (BMD) Fleet Synthetic Training (FST) at Sea: Funding required to provide the capability to conduct integrated Live, Virtual and Constructive (LVC) single or multi-ship exercises with ships at sea using the Navy Continuous Training Environment (NCTE). This capability will support BMD and Integrated Air Missile Defense (IAMD) mission area Fleet sustainment training and mission rehearsal in theater, allow ships to participate in COCOM/Navy Component Commander mandated BMD/IAMD exercises while pierside or underway, as well as enhance BMD/IAMD training objective accomplishment in current FRTP underway training events such as COMPTUEX and JTFEX. The NCTE and FST directly support Fleet training readiness and strike group and BMD platform deployment certifications. The Fleet's LVC training capability funds the necessary equipment to support BMD FST at Sea training used by the U.S. Navy. [P40A / AA800 - ANTI-ACCESS AREA DENIAL (A2AD)]: Anti-Access Area Denial (A2AD) capability: Funds required to provide the NCTE architecture the systems required to incorporate specific technologies, C4ISR stimulation capabilities to train Fleet units in Anti-Access Area Denial (A2AD) Tactics, Techniques and Procedures (TTPs). The Fleet's LVC training capability funds the necessary equipment to support A2AD training used by the U.S. Navy. [P40A / AA800 - COMMON DATA LINK (CDL)]: Common Data Link (CDL): Funds required to procure systems required to support CDL architecture to provide realistic adversary and own-force presentations that allows CDL platforms and operators to coordinate and operate in a realistic manner utilizing real-world systems and protocols. Advanced training capabilities will permit development and certification of operational proficiency in Surface Warfare (SUW), Anti-Submarine Warfare (ASW) and Electronic Warfare (EW). The capability transports images and full motion video and supports intelligence gathering and exploitation training objectives. The Fleet's LVC training capability funds the necessary equipment to support CDL training used by the U.S. Navy. [P40A / AA800 - DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS]: Digital Radio Management System (DRMS) Wholeness: Funds required to provide expanded capacity, improved reliability, and increased RF spectrum to live voice communications in the Digital Radio Management System (DRMS) for Tactical Training Ranges (TTR) and NCTE. Provide a single FST communications system enabling realistic tactical communications across all warfare areas, classification levels, and releasable domains. The Fleet's LVC training capability funds the necessary equipment to support DRMS Wholeness training used by the U.S. Navy. [P40A / AA800 - NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA)]: Naval Integrated Fire Control - Counter Air (NIFC-CA): Funds required to meet the goal of Naval Integrated Fire Control - Counter Air (NIFC-CA) for Fleet Synthetic Training (FST) that includes a Cooperative Engagement Capability (CEC) training solution, shore side constructive CEC units, and low fidelity E-2D virtual distributed aircrew training systems. The capabilities will supplement and integrate existing platform-level program of record solutions and is complementary to NAVAIR and NAVSEA efforts to deliver From the Sea (FTS) training capabilities. The Fleet's LVC training capability funds the necessary equipment to support NIFC-CA training used by the U.S. Navy. [P40A / AA800 - NCTE DISA COMPLIANCE]: Navy Continuous Training Environment (NCTE) Defense Information Security Agency (DISA) Compliance: Funds the transition of the NCTE from Asynchronous Transfer Mode (ATM) to Internet Protocol (IP) technology, as mandated by DISA. Supports simulators/simulation use in the Basic-through-Integrated phases of the Fleet Response Training Plan (FRTP). [P40A / AA800 - AEGIS ASHORE FLEET TRAINING]: Aegis Ashore (AA) Fleet Training: Funding required for Fleet Training Instructor support and Navy Continuous Training Environment connectivity and technical support for Aegis Ashore CONUS-based trainer. Funding will support Phased Adaptive Approach for missile defense of Europe [P40A / AA800 - FDNF EUROPE FLEET TRAINING]: Forward Deployed Naval Forces (FDNF) Europe Fleet Training: Funding required for Fleet Training Instructor support and Navy Continuous Training Environment connectivity for Forward Deployed Naval forces in Europe. Provides technical support and operational assistance of the deployed NCTE node. Funding will support Phased Adaptive Approach for missile defense of Europe. [P40A / H0004 - VBSS TRAINING CRAFT]: Visit, Board, Search, and Seizure (VBSS) Training Craft: Provide operational commander a capability to conduct VBSS and Maritime Interception Operations (MIO) from an Afloat Staging Base in conjunction with an overwatch craft and other friendly forces. Service life is 7 years. [P40A / YP001 - BOATS]: Boats: Funds procurement of service craft and small boats for training use. Planned procurements include: FY-13 - One 27FT Boston Whaler small boats used for EOD underwater training @ NAVSCOLEOD. FY-14 - Two 7M RHIB small boats used for EOD underwater training @ NAVSCOLEOD.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8081 / Training 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		
[P40A / YP300 - GUARD TOWERS]: Guard Towers (Scenario Training Devices at both SERE East and SERE West locations): The Guard Towers used in support of delivering the resistance and escape phase of the training serves three separate functions. It is the command and control point for managing the training being conducted while the students are in the POW camp; it serves as the primary safety observation point for the training and is primary focal point for the POW camp scenario driven training. The tower is in poor condition and needs to be replaced. [P40A / YPYAV - AUDIO/VISUAL EQUIPMENT FOR JPME]: FY15 Naval War College (NWC) requires audio visual educational and research support equipment to complete P103 MILCON conversion of current Library and underground garage parking spaces of Hewitt Hall into a integrated learning commons for the Naval War College, CNO's Strategic Studies Group and Command Leadership School. This \$12M MILCON project is in direct response to the repeat accreditation findings by Chairman Joint Chiefs of Staff that NWC has inadequate spaces to support to student study and collaboration spaces. Additionally CNIC has previously documented inadequate NWC facilities space for its mission requirements. The project is also required because the library is considered a key mission deficit area, as cited by the CJCS during the last two accreditation Inspection. To complete the renovations, the P-103 requires \$376K of A/V capabilities in FY15 to make the Library and Learning commons spaces usable as intended for the MILCON renovation. A modern higher education institution must support the use of the most current instructional and pedagogical tools and technology to deliver and support a 21st century curriculum for the proper development of 21st century leaders. [P40A / YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS]: FY15 Naval War College (NWC) requires audio visual educational and research support equipment to complete P103 MILCON conversion of current Library and underground garage parking spaces of Hewitt Hall into a integrated learning commons for the Naval War College, CNO's Strategic Studies Group and Command Leadership School. This \$12M MILCON project is in direct response to the repeat accreditation findings by Chairman Joint Chiefs of Staff that NWC has inadequate spaces to support to student study and collaboration spaces. Additionally CNIC has previously documented inadequate NWC facilities space for its mission requirements. The project is also required because the library is considered a key mission deficit area, as cited by the CJCS during the last two accreditation Inspection. To complete the renovations, the P-103 requires \$124K of A/V capabilities in FY15 to make the Library and Learning commons spaces usable as intended for the MILCON renovation. A modern higher education institution must support the use of the most current instructional and pedagogical tools and technology to deliver and support a 21st century curriculum for the proper development of 21st century leaders. [P40A / YPYIP - NPS- INTERNET PROTOCOL VERSION 6 (IPv6) INITIATIVE]: Upgrade Network, Telephone Switching and Education Delivery Systems to attain Internet Protocol version 6 (IPv6) compliance as mandated by OMB Memo to CIOs: Transition to IPv6 September 28, 2010 and DoD and DoN directives. This upgrade leverages BUPERS/Naval Post Graduate School's (NPS) lifecycle replacement schedule to meet the mandates. The current network electronics, telephone switch, and educational delivery systems have either reached or have exceeded end-of life in FY14. These devices will be IPv6 capable and allow implementation of the external facing compliance requirement as well as establishing the platform to fully implement IPv6 capability on the internal network for security, applications and web services. [P40A / YPYTD - TRAINING DELIVERY SERVICES (TDS)]: Virtual Desktop Infrastructure Initiative. The training enterprise is moving forward with implementing more efficient technologies to meet the training delivery mission via a virtual desktop infrastructure solution. The virtual desktop solution will be implemented over the next several years at each location in lieu of conducting the traditional one-for-one workstation refresh. The goals and benefits of VDI are to establish an agile, sustainable enterprise training delivery environment; standardize the processes, services and technology used to deliver training; improve the enterprise security posture; refresh outdated electronic classroom workstations and operating systems; and provide a solution that enables a streamlined, centralized IT workforce. [P40A / ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)]: NETC requires OPN funding in support of meeting the enterprise training delivery operations across the enterprise. Funds are utilized on virtual solutions that enable NETC to meet the DoD/DoN requirements of consolidating footprint while ensuring optimized performance of the desktops and servers in support of the Sailor 2025 and Ready, Relevant Learning. [P40A / YP010 - CONTINUITY OF OPERATIONS (COOP)]: Continuity of Operations (COOP): Existing IT infrastructure for training applications is insufficient to support the projected growth in content, users, and requirements for continuity of operations. Funds will be used to expand the capacity of servers, storage, and networks in addition to providing fail-over capability in the data center for storage of data and application code at an alternate site. These systems are vital to the operational readiness and effectiveness of education and training. Failure to make these investments could lead to immediate and sustained loss of mission effectiveness. [P40A / BATTLE STATIONS-21 (BST-21)]: BST-21 is a facility that represents a 210-foot-long Arleigh Burke class destroyer and is the culminating training event for Recruit Training Command recruits to participate in a 12-hour simulation of 4 General Quarters scenarios and 13 shipboard scenarios that include engineering, lookout, and mass casualty drills. FY19 and beyond OPN funding would aid in the		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8081 / Training 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		
replacement of worn, outdated or obsolete equipment and technology, termed as life-cycle replacement. During a February 2015 Life-Cycle Sustainment assessment of BST-21, NAWCTSD identified two OPN issues: Information Assurance/Cybersecurity and Tech Refresh/Upgrades. - Specifically, FY19 and beyond OPN funding would provide upgrades to the audiovisual systems, operating equipment, WIFI/LAN systems, and software modifications. - Commander, Naval Education and Training Command stated BST-21 is mandatory graduation requirement, and BST-21 is a Fleet requirement for Block 0 of the Ready, Relevant Learning initiative. [P40A / BST-21 AUDIOVISUAL LIGHTING SYSTEMS]: Funding provides for upgrades to Audiovisual Systems used to train recruits. [P40A / BST-21 SUPPORT SYSTEM]: Support System: The support systems consist of: 1. Ocean water: Ocean water storage, fire scenario water pumps, flooding pumps, recirculating pumps, and chlorination systems / 2. Ventilation: Air conditioning units, variable air volume controllers, mass casualty de-smoking exhaust, variable frequency drive, and exhaust equipment / 3. Compressed air / 4. Natural gas [P40A / BST-21 INFORMATION ASSURANCE SOFTWARE MODIFICATION]: Funding provides for BST-21 Information Assurance Software. Software operating system technical refreshes are required about every three to five years so that BST-21 can maintain DOD Cybersecurity Security Controls Certification. Operating systems over time are no long supported with security patches and updates by the manufacturers and have extended support end dates. Operating systems become non- compliant with Common Criteria Evaluation and Validation Scheme (CCEVS) or National Information Assurance Program (NIAP) at the extended support end date. Software operating system technical refreshes are required for BST-21 prior to the operating systems becoming non-compliant. When operating systems are refreshed there is a risk that some existing BST-21 software may have compatibility issues that will need resolved to maintain functionality. NSTC phased BST-21 technical refresh requirements across the FYDP and will update systems to gain compliance with Department of Defense Information Assurance (DoDIA). [P40A / BST-21 SCENIC AND PROPS]: Scenic and Props (SVI): This item is hard to quantify into aggregate items per fiscal year. During year of execution and contract award, NSTC will be able to quantify items more effectively. For instance, the NAWCTSD life cycle sustainment plan divides the scenic and props category into six separate subcategories titled pier front, pier stores, ship exterior, 01 level, main deck, and 2nd deck with over 100 hardware items varying in quantities from 1 to 176 to a generic title of "lot". The significant funding increase occurs because in FY19, NSTC is only performing maintenance on the pier stores subcategory comprised of 7 items mostly quantified in "lots"; whereas, in FY20, the overall .233 growth is tied to NSTC performing maintenance on the pier front, ship exterior, and main deck subcategories comprised of 38 items with numerous quantities including "lot". [P40A / BST-21 TRAINING MANAGEMENT SYSYTEM]: Training Management System (TMS). One of seven BST-21 systems. The TMS consists of commercial computer hardware and commercial operating systems in addition to contractor-developed software designated specifically to manage and support the trainer's unique requirements. The TMS is comprised of the following subsystems: Master Control System (MCS), Instructor Control System (ICS), Software Support System (SSS), Hand Held Evaluation Tool System (HHET); Recruit IVCS Phone System (IVCS), Closed Circuit Television System (CCTV), TMS Local Area Network (LAN), Wireless Network (Wi-Fi) and Access Control Server (ACS) and Uninterruptible Power Supply (UPS). Programming resources fluctuate per NAWCTSD's BST-21 life cycle sustainment plan. These categories/areas and subcategories require 5-year maintenance cycles instead of annual FY maintenance. [P40A / BST-21 SPECIAL EFFECTS]: Funding supports Special Effects in association with BST-21. Scenic and Props (SVI): One of seven BST-21 systems. The SVI systems consist of: Pier facade, pier stores, ship exterior, 01 level, Main deck, and 2nd deck. [P40A / BST-21 OVERALL SUPERVISORY SYSTEM]: Funding supports overall supervisory systems.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices						P-1 Line Item Number / Title: 8081 / Training 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										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Training Support Equipment	P-5a, P-21			- / 87.714	- / -	- / 3.400	- / 3.633	- / -	- / 3.633
P-40	Total Gross/Weapon System Cost				- / 87.714	- / 0.000	- / 3.400	- / 3.633	- / 0.000	- / 3.633
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The funding increase (.233) occurs in FY20 is due to NSTC performing maintenance on the pier front, ship exterior, and main deck subcategories comprised of 38 items with numerous quantities included in a single "lot". FY19-FY24 OPN funding would aid in the replacement of worn, outdated or obsolete equipment and technology, termed as life-cycle replacement. During a February 2015 Life-Cycle Sustainment assessment of BST-21, NAWCTSD identified two OPN issues: Information Assurance/Cybersecurity and Tech Refresh/Upgrades. - Specifically, FY19-FY24 OPN funding would provide upgrades to the audiovisual systems, overall supervisory systems, training management systems, operating equipment, WIFI/LAN systems, UPS subsystems, and software modifications. - Commander, Naval Education and Training Command stated BST-21 is mandatory graduation requirement, and BST-21 is a Fleet requirement for Block 0 of the Ready, Relevant Learning initiative.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1							P-1 Line Item Number / Title: 8081 / Training Support Equipment								Aggregated Items Title: Training Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) TRAINING SUPPORT EQUIPMENT																				
1.1) AA800 - LIFE CYCLE MANAGEMENT (NCTE) ^(†)	A		1,867K	6	11.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) AA800 - BALLISTIC MISSILE DEFENSE (BMD) ^(†)	A		2,854K	5	14.271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) AA800 - BMD FST AT SEA ^(†)	A		116,000.00	3	0.348	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) AA800 - ANTI-ACCESS AREA DENIAL (A2AD) ^(†)	A		574,000.00	1	0.574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) AA800 - COMMON DATA LINK (CDL) ^(†)	A		450,000.00	1	0.450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) AA800 - DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS ^(†)	A		970,000.00	2	1.940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7) AA800 - NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA) ^(†)	A		500,000.00	1	0.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.8) AA800 - NCTE DISA COMPLIANCE ^(†)	A		7,827K	3	23.481	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.9) AA800 - AEGIS ASHORE FLEET TRAINING ^(†)	A		1,061K	2	2.122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.10) AA800 - FDNF EUROPE FLEET TRAINING ^(†)	A		4,800K	1	4.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) TRAINING SUPPORT EQUIPMENT			-	-	59.686	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) VBSS TRAINING CRAFT																				
2.1) H0004 - VBSS TRAINING CRAFT ^(†)	A		1,175K	2	2.350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) VBSS TRAINING CRAFT			-	-	2.350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) TRAINING SUPPORT EQUIP																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy																Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1						P-1 Line Item Number / Title: 8081 / Training Support Equipment										Aggregated Items Title: Training Support Equipment				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
3.1) YP001 - BOATS ^(†)	A		302,000.00	5	1.510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) YP300 - GUARD TOWERS ^(†)	A		356,000.00	1	0.356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.3) YPYAV - AUDIO/ VISUAL EQUIPMENT FOR JPME ^(†)	A		376,000.00	1	0.376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.4) YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS ^(†)	A		124,000.00	1	0.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) TRAINING SUPPORT EQUIP			-	-	2.366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) YPYIP - NPS- INTERNET PROTOCOL VERSION 6 (IPv6) INITIATIVE																				
4.1) PAN-PA-705-TP (THREAT PREVENTION SUBSCRIPTION) ^(†)	A		51,000.00	1	0.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2) PAN-SVC-PREM-7050-PA (PREMIUM SUPPORT) ^(†)	A		48,000.00	1	0.048	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.3) IPV6 APPLIANCE ACQUISITION ^(†)	A		177,000.00	1	0.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.4) VOIP DEPLOYMENT ^(†)	A		173,000.00	1	0.173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5) PYTHON STUDENT INFO SYSTEM MAINTENANCE ^(†)	A		18,000.00	12	0.216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.6) PYTHON STUDENT INFO SYSTEM REWRITE ^(†)	A		108,000.00	12	1.296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.7) PAN-PA-7050-AC PALO ALTO NETWORKS PA ^(†)	A		106,000.00	1	0.106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.8) PAN-PA-7000-20G-NPC (NETWORK PROCESSING CARD) ^(†)	A		128,000.00	2	0.256	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1							P-1 Line Item Number / Title: 8081 / Training Support Equipment								Aggregated Items Title: Training Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
4.9) PAN-EDU-ONSITE PALO ALTO NETWORKS ^(†)	A		177,000.00	1	0.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.10) CENIC UPGRADE NETWORKS OPTRONICS ^(†)	A		500,000.00	1	0.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.11) NETWORK REFRESH ^(†)	A		3,100K	1	3.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) YPYIP - NPS- INTERNET PROTOCOL VERSION 6 (IPv6) INITIATIVE			-	-	6.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)																				
5.1) TRANET NETWORK (CISCO NETWORK SWITCHES/ ROUTERS) ^(†)	A		4,000.00	149	0.596	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2) ECR VDI/ VIRTUAL SERVER SVCS IMPLEMENTATION (CISCO NETWORK SWITCHES) ^(†)	A		5,127.27	220	1.128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.3) ECR VDI IMPLEMENTATION (ZERO CLIENT DEVICES) ^(†)	A		400.00	3,105	1.242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.4) ECR VDI/ VIRTUAL SERVER SERVICES IMPLEMENTATION (SERVER HARDWARE) ^(†)	A		10,236.36	110	1.126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE) ^(†)	A		14,000.00	160	2.240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.6) ECR VDI IMPLEMENTATION (SERVER SOFTWARE) ^(†)	A		1,100.00	100	0.110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.7) VDI - STORAGE ENVIRONMENT ^(†)	A		680,000.00	1	0.680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.8) VDI - SERVER INFRASTRUCTURE ^(†)	A		752,000.00	1	0.752	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy																Date: March 2019							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1									P-1 Line Item Number / Title: 8081 / Training Support Equipment									Aggregated Items Title: Training Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)			
5.9) VDI - NETWORKING ENVIRONMENT ^(†)	A		109,000.00	1	0.109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
5.10) VDI - MICROSOFT ENVIRONMENT ^(†)	A		1,089K	1	1.089	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
5.11) VDI - VIRTUAL ENVIRONMENT ^(†)	A		1,602K	1	1.602	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
5.12) VDI - POWER SUPPLY ^(†)	A		38,000.00	1	0.038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
5.13) VDI - ZERO CLIENTS ^(†)	A		1,412K	1	1.412	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: 5) YPYTD - TRAINING DELIVERY SERVICES (TDS)			-	-	12.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
6) YP010 - CONTINUITY OF OPERATIONS (COOP)																							
6.1) COOP - ROUTER/ SWITCH-1 ^(†)	A		9,371.43	245	2.296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
6.2) COOP - ROUTER SWITCH-2 ^(†)	A		9,366.67	30	0.281	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
6.3) COOP - ROUTER/SWITCH-3	A		9,377.78	45	0.422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
6.4) COOP - SAN NETWORK -1 ^(†)	A		9,375.00	96	0.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
6.5) COOP - SAN NETWORK-2 ^(†)	A		9,366.67	30	0.281	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
6.6) COOP - TACLane ^(†)	A		14,526.32	19	0.276	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
6.7) COOP - STORAGE ^(†)	A		20,320.00	25	0.508	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
6.8) COOP - SOFTWARE ^(†)	A		19,000.00	3	0.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
6.9) COOP - NETWORKING INFRASTRUCTURE EQUIPMENT ^(†)	A		1,015.15	66	0.067	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: 6) YP010 - CONTINUITY OF OPERATIONS (COOP)			-	-	5.088	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
7) BATTLE STATIONS-21 (BST-21) ⁽¹⁾																							
7.1) BST-21 AUDIOVISUAL	A		-	-	-	-	-	-	1,445K	1	1.445	-	-	-	-	-	-	-	-	-			

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1						P-1 Line Item Number / Title: 8081 / Training Support Equipment									Aggregated Items Title: Training Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
LIGHTING SYSTEMS ^(†)																				
7.2) BST-21 SUPPORT SYSTEM ^(†)	A		-	-	-	-	-	-	-	-	-	567,000.00	1	0.567	-	-	-	567,000.00	1	0.567
7.3) BST-21 INFORMATION ASSURANCE SOFTWARE MODIFICATION ^(†)	A		-	-	-	-	-	-	300,000.00	1	0.300	325,000.00	1	0.325	-	-	-	325,000.00	1	0.325
7.4) BST-21 SCENIC AND PROPS ^(†)	A		-	-	-	-	-	-	172,000.00	1	0.172	2,611K	1	2.611	-	-	-	2,611K	1	2.611
7.5) BST-21 TRAINING MANAGEMENT SYSYTEM ^(†)	A		-	-	-	-	-	-	424,000.00	1	0.424	130,000.00	1	0.130	-	-	-	130,000.00	1	0.130
7.6) BST-21 SPECIAL EFFECTS ^(†)	A		-	-	-	-	-	-	1,059K	1	1.059	-	-	-	-	-	-	-	-	-
Subtotal: 7) BATTLE STATIONS-21 (BST-21)			-	-	0.000	-	-	-	-	-	3.400	-	-	3.633	-	-	-	-	-	3.633
Total			-	-	87.714	-	-	-	-	-	3.400	-	-	3.633	-	-	-	-	-	3.633

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

(†) indicates the presence of a P-5a

Footnotes:

(1) BST-21 is a facility that represents a 210-foot-long Arleigh Burke class destroyer and is the culminating training event for Recruit Training Command recruits to participate in a 12-hour simulation of 4 General Quarters scenarios and 13 shipboard scenarios that include engineering, lookout, and mass casualty drills. FY19 OPN funding would aid in the replacement of worn, outdated or obsolete equipment and technology, termed as life-cycle replacement. During a February 2015 Life-Cycle Sustainment assessment of BST-21, NAWCTSD identified two OPN issues: Information Assurance/Cybersecurity and Tech Refresh/Upgrades. - Specifically, FY19 OPN funding would provide upgrades to the audiovisual systems, operating equipment, WIFI/LAN systems, and software modifications. - Commander, Naval Education and Training Command stated BST-21 is mandatory graduation requirement, and BST-21 is a Fleet requirement for Block 0 of the Ready, Relevant Learning initiative.

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8081 / Training Support Equipment					Aggregated Items: Training 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) TRAINING SUPPORT EQUIPMENT												
1.1) AA800 - LIFE CYCLE MANAGEMENT (NCTE)		2013	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Nov 2012	Jan 2013	1	2,809K	N	Jan 2013	
1.1) AA800 - LIFE CYCLE MANAGEMENT (NCTE)		2014	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Sep 2014	Nov 2014	1	2,497K	N	Jan 2015	
1.1) AA800 - LIFE CYCLE MANAGEMENT (NCTE)		2015	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2014	Mar 2015	1	2,380K	N	May 2015	
1.1) AA800 - LIFE CYCLE MANAGEMENT (NCTE)		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2015	Dec 2015	1	1,081K	N	Jan 2016	
1.2) AA800 - BALLISTIC MISSILE DEFENSE (BMD)		2013	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2012	Feb 2013	1	1,696K	N	Feb 2013	
1.2) AA800 - BALLISTIC MISSILE DEFENSE (BMD)		2014	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Jun 2014	Aug 2014	1	1,802K	N	Oct 2014	
1.2) AA800 - BALLISTIC MISSILE DEFENSE (BMD)		2015	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2014	Feb 2015	1	1,564K	N	Mar 2015	
1.2) AA800 - BALLISTIC MISSILE DEFENSE (BMD)		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2015	Dec 2015	1	568,000.00	N	Jan 2016	
1.3) AA800 - BMD FST AT SEA		2014	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Jan 2014	Mar 2014	1	50,000.00	N	Mar 2014	
1.3) AA800 - BMD FST AT SEA		2015	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2014	Dec 2014	1	100,000.00	N	Jan 2015	
1.3) AA800 - BMD FST AT SEA		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2015	Dec 2015	1	198,000.00	N	Jan 2016	
1.4) AA800 - ANTI-ACCESS AREA DENIAL (A2AD)		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Mar 2016	Mar 2016	1	574,000.00	N	Apr 2016	
1.5) AA800 - COMMON DATA LINK (CDL)		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Mar 2016	Mar 2016	1	450,000.00	N	Apr 2016	
1.6) AA800 - DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS		2015	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Sep 2015	Sep 2015	1	825,000.00	N	Sep 2015	
1.6) AA800 - DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Mar 2016	Mar 2016	1	1,115K	N	Apr 2016	
1.7) AA800 - NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA)		2016	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Mar 2016	Mar 2016	1	500,000.00	N	Apr 2016	
1.8) AA800 - NCTE DISA COMPLIANCE		2013	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Apr 2013	Jun 2013	1	7,615K	N	Jun 2013	
1.8) AA800 - NCTE DISA COMPLIANCE		2014	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2013	Oct 2014	1	7,924K	N	Jan 2014	

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8081 / Training Support Equipment					Aggregated Items: Training 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
1.8) AA800 - NCTE DISA COMPLIANCE		2015	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Dec 2014	Sep 2015	1	7,942K	N	Jan 2015	
1.9) AA800 - AEGIS ASHORE FLEET TRAINING		2013	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Apr 2013	Jun 2013	1	322,000.00	N	Jul 2013	
1.9) AA800 - AEGIS ASHORE FLEET TRAINING		2014	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Jan 2014	Mar 2014	1	1,800K	N	Apr 2014	
1.10) AA800 - FDNF EUROPE FLEET TRAINING		2013	Alion Science and Technology / McLean, VA	C / CPFF	DTIC	Nov 2012	Jan 2013	1	4,800K	N	Feb 2013	
2) VBSS TRAINING CRAFT												
2.1) H0004 - VBSS TRAINING CRAFT		2014	USMI / Gulport, MS	C / FFP	NAVSEA	Aug 2014	Sep 2015	2	1,175K	N	Aug 2014	
3) TRAINING SUPPORT EQUIP												
3.1) YP001 - BOATS		2013	NAVSEA / Washington, DC	C / FFP	NAVSEA Washington DC	Feb 2013	Dec 2013	2	312,000.00	Y		Feb 2013
3.1) YP001 - BOATS		2014	NAVSEA / Washington, DC	C / FFP	NAVSEA	Nov 2014	May 2015	1	422,000.00	Y		Nov 2014
3.2) YP300 - GUARD TOWERS		2013	NSWC / NSWC	C / FP	NSWC	Jul 2013	Sep 2013	1	356,000.00	Y		Jun 2013
3.3) YPYAV - AUDIO/VISUAL EQUIPMENT FOR JPME		2015 ⁽²⁾	Unknown / Unknown	C / FFP	NAVSTA Newport	Mar 2015	Mar 2015	1	376,000.00	N	Dec 2014	
3.4) YPYOE - OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS ^(†)		2015	TBD / New MFG - Loc	C / FFP	NAVSTA Newport	Sep 2015	Sep 2015	1	124,000.00	N	Oct 2015	
4) YPYIP - NPS- INTERNET PROTOCOL VERSION 6 (IPv6) INITIATIVE												
4.1) PAN-PA-705-TP (THREAT PREVENTION SUBSCRIPTION)		2015	TBD / TBD	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	51,000.00	N	Dec 2015	
4.2) PAN-SVC-PREM-7050-PA (PREMIUM SUPPORT)		2015	TBD / TBD	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	48,000.00	N	Dec 2015	
4.3) IPV6 APPLIANCE ACQUISITION		2015	TBD / UNKNOWN	C / TBD	** NO PCO **	Mar 2016	Mar 2016	1	177,000.00	N	Apr 2016	
4.4) VOIP DEPLOYMENT		2015	TBD / TBD	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	173,000.00	N	Oct 2015	
4.5) PYTHON STUDENT INFO SYSTEM MAINTENANCE		2015 ⁽³⁾	Unknown / Unknown	C / TBD	TBD	Oct 2015	Oct 2015	12	18,000.00	N	Dec 2015	
4.6) PYTHON STUDENT INFO SYSTEM REWRITE		2015 ⁽⁴⁾	Unknown / Unknown	TBD	TBD	Oct 2015	Oct 2015	12	108,000.00	N	Dec 2015	
4.7) PAN-PA-7050-AC PALO ALTO NETWORKS PA		2015 ⁽⁵⁾	Unknown / Unknown	TBD	TBD	Oct 2015	Oct 2015	1	106,000.00	N		
4.8) PAN-PA-7000-20G-NPC (NETWORK PROCESSING CARD)		2015	Unknown / Unknown	C / TBD	TBD	Oct 2015	Oct 2015	2	128,000.00	N	Dec 2015	
4.9) PAN-EDU-ONSITE PALO ALTO NETWORKS		2015 ⁽⁶⁾	Unknown / Unknown	C / TBD	TBD	Oct 2015	Oct 2015	1	177,000.00	N	Dec 2015	

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8081 / Training Support Equipment					Aggregated Items: Training 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
4.10) CENIC UPGRADE NETWORKS OPTRONICS		2015 ⁽⁷⁾	Unknown / Unknown	C / TBD	TBD	Oct 2015	Oct 2015	1	500,000.00	N	Dec 2015	
4.11) NETWORK REFRESH		2015 ⁽⁸⁾	Unknown / Unknown	C / TBD	TBD	Oct 2015	Oct 2015	1	3,100K	N	Dec 1015	
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)												
5.1) TRANET NETWORK (CISCO NETWORK SWITCHES/ ROUTERS)		2016	World Wide Technology Inc / Maryland Heights, MO	C / FP	NETPDTC	Jul 2016	Jul 2016	149	4,000.00	N	Jul 2016	
5.2) ECR VDI/VIRTUAL SERVER SVCS IMPLEMENTATION (CISCO NETWORK SWITCHES)		2015	World Wide Technology Inc / Maryland Heights, MO	C / FP	** NO PCO **	Jul 2015	Jul 2015	160	5,000.00	Y		
5.2) ECR VDI/VIRTUAL SERVER SVCS IMPLEMENTATION (CISCO NETWORK SWITCHES)		2016	World Wide Technology Inc / Maryland Heights, MO	C / FP	** NO PCO **	Jul 2016	Jul 2016	60	5,000.00	N	Jul 2016	
5.3) ECR VDI IMPLEMENTATION (ZERO CLIENT DEVICES)		2015 ⁽⁹⁾	Dell Federal Systems / Round Rock, TX	C / FP	NETPDTC	Jul 2015	Jul 2015	1,625	400.00	Y		
5.3) ECR VDI IMPLEMENTATION (ZERO CLIENT DEVICES)		2016 ⁽¹⁰⁾	Dell Federal Systems / Round Rock, TX	C / FP	NETPDTC	Jul 2016	Jul 2016	1,480	400.00	Y		
5.4) ECR VDI/VIRTUAL SERVER SERVICES IMPLEMENTATION (SERVER HARDWARE)		2015	Dell Federal Systems / Round Rock, TX	C / FP	** NO PCO **	Jul 2015	Jul 2015	30	10,000.00	Y		
5.4) ECR VDI/VIRTUAL SERVER SERVICES IMPLEMENTATION (SERVER HARDWARE)		2016	Dell Federal Systems / Round Rock, TX	C / FP	** NO PCO **	Jul 2016	Jul 2016	80	10,325.00	N	Jul 2016	
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE) ^(†)		2015	TBD / TBD	C / FP	NETPDTC	Jul 2015	Jan 2016	80	20,000.00	Y		Dec 2014
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE) ^(†)		2016	TBD / TBD	C / FP	** NO PCO **	Jul 2016	Jul 2016	80	8,000.00	N	Jul 2016	
5.6) ECR VDI IMPLEMENTATION (SERVER SOFTWARE)		2015	Insight Public Sector ⁽¹¹⁾ / Tempe, AZ	C / FP	NETPDTC	Jul 2015	Jul 2015	100	1,000.00	Y		
5.7) VDI - STORAGE ENVIRONMENT		2014	EMC / Hopkinton, MA	C / FP	NETPDTC	Nov 2013	Feb 2014	1	680,000.00	Y		Oct 2013
5.8) VDI - SERVER INFRASTRUCTURE		2014	Dell Federal Systems / Round Rock, TX	C / FP	NETPDTC	Oct 2013	Feb 2014	1	752,000.00	Y		Oct 2013
5.9) VDI - NETWORKING ENVIRONMENT		2014	CISCO / San Jose, CA	C / FP	NETPDTC	Nov 2013	Feb 2014	1	109,000.00	Y		Oct 2013
5.10) VDI - MICROSOFT ENVIRONMENT		2014	Microsoft / Redmond, WA	C / FP	NETPDTC	Nov 2013	Feb 2014	1	1,089K	Y		Oct 2013
5.11) VDI - VIRTUAL ENVIRONMENT		2014	VMWARE / Palo Alto, CA	C / FP	NETPDTC	Nov 2013	Feb 2014	1	1,602K	Y		Oct 2013

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1			P-1 Line Item Number / Title: 8081 / Training Support Equipment					Aggregated Items: Training 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
5.12) VDI - POWER SUPPLY		2014	APC / Kingston, RI	C / FP	NETPDTC	Nov 2013	Feb 2014	1	38,000.00	Y		Oct 2013
5.13) VDI - ZERO CLIENTS		2014	Dell Wyse / San Jose, CA	C / FP	NETPDTC	Nov 2013	Feb 2014	1	1,412K	Y		Oct 2013
6) YP010 - CONTINUITY OF OPERATIONS (COOP)												
6.1) COOP - ROUTER/SWITCH-1		2013	World Wide Technology Inc / Maryland Heights, MO	C / FP	NETPDTC	Jul 2013	Aug 2015	245	9,371.43	Y		Jul 2013
6.2) COOP - ROUTER SWITCH-2		2013	World Wide Technology Inc / Maryland Heights, MO	C / FP	NETPDTC	Aug 2013	Sep 2015	30	9,366.67	Y		Aug 2013
6.4) COOP - SAN NETWORK - 1		2013	World Wide Technology Inc / Maryland Heights, MO	C / FP	NETPDTC	May 2013	Jun 2013	96	9,375.00	Y		May 2013
6.5) COOP - SAN NETWORK-2		2013	Intelligent Decisions / Ashburn, VA	C / FP	NETPDTC	Sep 2013	Oct 2015	30	9,366.67	Y		Sep 2013
6.6) COOP - TACLane		2013	General Dynamics, AIS / Needham, Ma	C / FP	NETPDTC	Oct 2013	Nov 2015	19	14,526.32	Y		Oct 2013
6.7) COOP - STORAGE		2013	EMC / Hopkinton, MA	C / FP	NETPDTC	Nov 2013	Dec 2015	25	20,320.00	Y		Nov 2013
6.8) COOP - SOFTWARE		2013	Softchoice Corporation / Chicago, IL	C / FP	NETPDTC	May 2013	May 2013	3	19,000.00	Y		May 2013
6.9) COOP - NETWORKING INFRASTRUCTURE EQUIPMENT		2013	Intelligent Decisions / Ashburn, VA	C / FP	NETPDTC	Jun 2013	Jul 2014	66	1,015.15	Y		Jun 2013
7) BATTLE STATIONS-21 (BST-21)												
7.1) BST-21 AUDIOVISUAL LIGHTING SYSTEMS		2019	TBD / TBD	C / TBD	Orlando, FL	Mar 2019	Apr 2019	1	1,445K	N	Jun 2019	Nov 2018
7.2) BST-21 SUPPORT SYSTEM		2020	TBD / TBD	C / TBD	** NO PCO **	Mar 2020	Apr 2020	1	567,000.00	N	Jun 2020	
7.3) BST-21 INFORMATION ASSURANCE SOFTWARE MODIFICATION		2019	TBD / TBD	C / TBD	Orlando, FL	Mar 2019	Apr 2019	1	300,000.00	N	Jun 2019	Nov 2018
7.3) BST-21 INFORMATION ASSURANCE SOFTWARE MODIFICATION		2020	TBD / TBD	C / TBD	** NO PCO **	Mar 2020	Apr 2020	1	325,000.00	N	Jun 2020	
7.4) BST-21 SCENIC AND PROPS		2019	Unknown / Unknown	C / TBD	Orlando, FL	Mar 2019	Apr 2019	1	172,000.00	N	Jun 2019	
7.4) BST-21 SCENIC AND PROPS		2020	Unknown / Unknown	C / TBD	Orlando, FL	Mar 2020	Apr 2020	1	2,611K	N	Jun 2020	
7.5) BST-21 TRAINING MANAGEMENT SYSYTEM		2019	TBD / TBD	C / TBD	Orlando, FL	Mar 2019	Apr 2019	1	424,000.00	N	Jun 2019	Nov 2018
7.5) BST-21 TRAINING MANAGEMENT SYSYTEM		2020	TBD / TBD	C / TBD	Orlando, FL	Mar 2020	Apr 2020	1	130,000.00	N	Jun 2020	
7.6) BST-21 SPECIAL EFFECTS		2019	Unknown / Unknown	C / TBD	Orlando, FL	Mar 2019	Apr 2019	1	1,059K	N	Jun 2019	
(†) indicates the presence of a P-21												
Footnotes:												

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1	P-1 Line Item Number / Title: 8081 / Training Support Equipment	Aggregated Items: Training Support Equipment
(2) Contractor Name: HV Collins Co, Inc, Providence, RI (3) Contractor and Location pending contractual award. (4) Contractor and Location pending contractual award (5) Contractor and Location pending contractual award. (6) Contractor and Location pending contractual award. (7) Contractor and Location pending contractual award. (8) Contractor and Location pending contractual award. (9) Dell- Round Rock, TX (expected) (10) Dell- Round Rock, TX (expected) (11) (expected)		

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Exhibit P-21, Production Schedule: PB 2020 Navy																				Date: March 2019											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1										P-1 Line Item Number / Title: 8081 / Training Support Equipment										Aggregated Items: Training Support Equipment											
Items (Units in Each)							Fiscal Year 2013										Fiscal Year 2014													BALANCE	
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013										Calendar Year 2014														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP
3) TRAINING SUPPORT EQUIP																															
3.4) YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS																															
	1	2015	NAVY		1	0	1																							1	
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)																															
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)																															
	2	2015	NAVY		80	0	80																							80	
	2	2016	NAVY		80	0	80	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

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Exhibit P-21, Production Schedule: PB 2020 Navy																							Date: March 2019																		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1										P-1 Line Item Number / Title: 8081 / Training Support Equipment													Aggregated Items: Training Support Equipment																		
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											
3) TRAINING SUPPORT EQUIP																																									
3.4) YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS																																									
	1	2015	NAVY		1	0	1														A1													0							
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)																																									
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)																																									
	2	2015	NAVY		80	0	80														A -	-	-	-	-	-	-	80													0
	2	2016	NAVY		80	0	80																										A80				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 2020 Navy																				Date: March 2019													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1										P-1 Line Item Number / Title: 8081 / Training Support Equipment										Aggregated Items: Training Support Equipment													
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		
3) TRAINING SUPPORT EQUIP																																	
3.4) YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS																																	
	1	2015	NAVY		1	1	0																										0
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)																																	
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)																																	
	2	2015	NAVY		80	80	0																										0
	2	2016	NAVY		80	80	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	0	

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Exhibit P-21, Production Schedule: PB 2020 Navy																				Date: March 2019														
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1										P-1 Line Item Number / Title: 8081 / Training Support Equipment										Aggregated Items: Training Support Equipment														
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																	
							OC T	NO V	DE C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	NO V	DE C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P			
3) TRAINING SUPPORT EQUIP																																		
3.4) YPYOE- OTH EQUIP: SPPT EQUIP & COMPUTER STATIONS																																		
	1	2015	NAVY		1	1	0																											0
5) YPYTD - TRAINING DELIVERY SERVICES (TDS)																																		
5.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)																																		
	2	2015	NAVY		80	80	0																											0
	2	2016	NAVY		80	80	0																											0
							OC T	NO V	DE C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	NO V	DE C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2020 Navy									Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1					P-1 Line Item Number / Title: 8081 / Training Support Equipment					Aggregated Items: Training Support Equipment			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2020	1-8-5 For 2020	MAX For 2020	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	TBD - New MFG - Loc			TBD	0	0	0	0	0	0	0	0	
2	TBD - TBD			TBD	0	0	0	0	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).													

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices							P-1 Line Item Number / Title: 8101 / Training and Education 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6.347	26.024	20.683	97.636	0.000	97.636	68.303	52.351	28.524	33.292	-	333.160
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6.347	26.024	20.683	97.636	0.000	97.636	68.303	52.351	28.524	33.292	-	333.160
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6.347	26.024	20.683	97.636	0.000	97.636	68.303	52.351	28.524	33.292	-	333.160
<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: [P40A / TRAINING SUPPORT EQUIPMENT]: Funding provides the U. S. Navy with live, virtual, and constructive (LVC) training capability necessary to meet critical mission essential requirements for training combat-ready maritime forces for world-wide operations. The LVC capability includes the training support equipment/systems used in support of and connected to the Navy Continuous Training Capability (NCTE) and all of the equipment/systems required, including all training systems, network equipment, information technology (IT) equipment, communications equipment, command, control, communications, computers and intelligence (C4I) systems, and training devices used for LVC training capability in the U. S. Navy. This budget line item also provides the resources to procure and maintain a fifth (5th) Training Support Vessel (TSV). East Coast geography and range encroachment mandates the Atlantic Fleet to use TSVs to provide open ocean Opposing Force (OPFOR) (i.e. live fire, target services, electromagnetic emissions, and jamming services) and range services. The Fleet Training Continuum (FTC) instruction directs the Navy to adopt an integrated LVC capability to train Navy forces to high-end threats. Navy requires a fifth (5th) TSV to support the Jacksonville Shallow Water Training Range (JSWTR) and sustain the requirement for the four (4) existing TSVs that support Large Scale Integrated Training Events (LSE). NAVSEA PMS325 completed a study and solicited Requests for Information (RFI) then determined the best course of action is to obtain an existing American Bureau of Shipping (ABS) certified Offshore Supply Vessel (OSV) for conversion to a TSV configuration. Navy requires all ships to have ABS certification. FY21-FYDP funding will provide additional funding for the required updates, maintenance and dry-docking that are mandated by ABS. [P40A / LIFE CYCLE MANAGEMENT (NCTE)]: The Navy Continuous Training Environment (NCTE) is a distributed training architecture and network (the Navy Enterprise Tactical Training Network (NETTN)) that interconnects 115 Navy, Joint, and Coalition training sites and provides the U. S. Navy's LVC capability. Funding will support phased replacement of hardware and software within the NCTE Enterprise to provide sustained adherence to cyber security/information assurance (IA) certification and accreditation requirements and procurement and installation of replacement equipment as required to maintain equipment currency and maintainability. [P40A / BALLISTIC MISSILE DEFENSE (BMD)]: The Navy's only means of training and certifying Ballistic Missile Defense (BMD) ships is done synthetically using the Navy Continuous Training Environment (NCTE). Training includes BMD synthetic training events (BMDEX, Fleet Synthetic Training (FST) and FST at Sea) and shipboard qualification/certification events. FY2020 funding is essential for the procurement of network hardware and software necessary to deliver and maintain the live, virtual, and constructive (LVC) training environment architecture, meet mandated cyber-security improvements, and ensure continued BMD training/certification of BMD designated ships to meet Navy, theater, and Combatant Commander requirements to detect and defeat theater and strategic missile threats to the United States and coalition partner nations.												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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		
[P40A / BMD FST AT SEA]: Ballistic Missile Defense (BMD) Fleet Synthetic Training (FST) at Sea: Funding required to provide the capability to conduct integrated live, virtual, and constructive (LVC) single or multi-ship exercises with ships at sea using the Navy Continuous Training Environment (NCTE). This capability will support BMD and Integrated Air and Missile Defense (IAMD) mission area Fleet sustainment training and mission rehearsal in theater, allow ships to participate in COCOM/Navy Component Commander mandated BMD/IAMD exercises while pier side or underway, as well as enhance BMD/IAMD training objective accomplishment in current Fleet Readiness Training plan (FRTPT) underway training events such as Composite Training Unit Exercise (COMPTUEX) and Joint Training Fleet Exercise (JTTFEX). The NCTE and FST directly support Fleet training readiness and strike group and BMD platform deployment certifications.		
[P40A / ANTI-ACCESS AREA DENIAL (A2AD)]: Anti-Access Area Denial (A2AD) capability provides the NCTE architecture the systems required to incorporate specific technologies, Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) stimulation capabilities to train Fleet units in Anti-Access Area Denial Tactics, Techniques and Procedures (TTPs). FY20 funding procures eighteen (18) Electronic Warfare (EW) portable embarkation kits (PEKs), protocol conversion devices and other ancillary equipment/parts. Completes accreditation of new A2AD related training systems added to the NCTE architecture.		
[P40A / COMMON DATA LINK (CDL)]: Common Data Link (CDL) systems required to support CDL architecture to provide realistic adversary and own-force presentations that allows CDL platforms and operators to coordinate and operate in a realistic manner utilizing real-world systems and protocols. Advance training capabilities will permit development and certification of operational proficiency in Surface Warfare (SUW), Anti-Submarines Warfare (ASW) and Electronic Warfare (EW). The capability transports images and full motion video and supports intelligence gathering and exploitation training objectives. The Navy live, virtual, and constructive (LVC) training capability funds the necessary equipment to support CDL training.		
[P40A / DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS]: Digital Radio Management System (DRMS) Wholeness provides expanded capacity, improved reliability, and increased Radio Frequency (RF) spectrum to live voice communications in the DRMS for Tactical Training Ranges (TTR) and Navy Continuous Training Environment (NCTE). Provide a single Fleet Synthetic Training (FST) communications system enabling realistic tactical communications across all warfare areas, classification levels, and releasable domains. The Fleet's LVC training capability funds the necessary equipment to support DRMS Wholeness training used by the U. S. Navy.		
[P40A / NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA)]: Naval Integrated Fire Control - Counter Air (NIFC-CA) is required for Fleet Synthetic Training (FST) that includes a Cooperative Engagement Capability (CEC) training solution, shore side constructive CEC units, and low fidelity E-2D virtual distributed aircrew training systems. The capabilities will supplement and integrate existing platform-level program of record solutions and is complementary efforts to deliver From the Sea (FTS) training capabilities. The live, virtual, and constructive (LVC) training capability funds the necessary equipment to support NIFC-CA training.		
[P40A / IMPASS SCORING SYSTEM]: Funding will support the Integrated Maritime Portable Acoustic Scoring & Simulation (IMPASS) System Replacement and Modernization in support of Navy Training. Naval Surface Fires Support (NSFS) certification is mandated by the Surface Force Exercise Manual, which requires the use of the IMPASS Naval Gunfire Scoring System as the only accredited means by which a CG or DDG with five (5) inch guns can attain initial NSFS certification in the U.S. Atlantic Fleet and Forward Deployed Naval Forces (FDNF) units stationed in Rota. Funding across Future Year Defense Program (FYDP) for the Life Cycle Maintenance (LCM), repairs and upgrades to support this system.		
[P40A / FLEET TRAINING WHOLENESS (FTW)]: Funding for the Fleet Training Wholeness (FTW) initiative supports the continuing efforts to create a live, virtual, and constructive (LVC) training environment in support of combat readiness. FTW in support of LVC builds upon current Ballistic Missile Defense (BMD) Fleet Synthetic Training (FST) at Sea (BFAS) capabilities, driving toward full FST at Sea capability. Funding across the FY20-24 FYDP will provide for procurement of equipment to support FST at Sea capability for non-BMD Aegis and Ship Self-Defense System (SSD) platforms and procurement of Total Ship Training Capability (TSTC) shipboard synthetic radios required for realistic command and control (C2) representation in an LVC environment. Increase in funding from FY19 to FY20 represents a 120% increase (from 23 to 51) in BFAS installations and commencement of TSTC procurement.		
[P40A / EAST COAST NETWORK CONSOLIDATION]: This issue supports Phase II of network consolidation near and long term Fleet Training Wholeness (FTW) priorities for Electronic Warfare, Cyber, Space, Air, Undersea and Surface Warfare domains by integrating Fleet tactical training ranges and systems with the Navy Continuous Training Environment (NCTE). It will provide a high return-on-investment (ROI) by integrating critical, fielded training range systems and developing common control displays and network upgrades to support LVC training. LVC ranges will be connected and integrated initially on the East Coast. Network consolidation funding of \$18.6M procures equipment and renovates physical infrastructure to establish an East Coast LVC Exercise Control (EXCON) facility. Procures and installs equipment to integrate designated East Coast training ranges and systems with the NCTE and upgrades designated East Coast training ranges to Digital Radio Management System (DRMS) 5.0. Integrates the East Coast		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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		
Tactical Training Range Network (live ranges) into the Navy Enterprise Tactical Training Network (NETTN) to provide an LVC environment that allows training data of all types to move between training sites to ensure the best operational picture id available to the Fleet and support Large Scale Exercises (LSE) both in CONUS and OCONUS. This is a new Cost Element beginning in FY20.		
[P40A / WEST COAST NETWORK CONSOLIDATION]: This issue supports near and long term Fleet Training Wholeness (FTW) priorities for Electronic Warfare, Cyber, Space, Air, Undersea and Surface Warfare domains by integrating Fleet tactical training ranges and systems with the Navy Continuous Training Environment (NCTE). It will provide a high return-on-investment (ROI) by integrating critical, fielded training range systems and developing common control displays and network upgrades to support LVC training. Network consolidation funding of \$10.9M will procure equipment to improve and upgrade the interfaces between the synthetic and live (training range) environments. For FY20-24, this issue supports system integration at the Southern California Offshore Range (SCORE), Southwest Tactical Training Range (SWTTR), Northwest Tactical Training Range (NWTTR), and Pacific Northwest Range (PACNORWEST) ranges. Provides the equipment and renovation/alteration of physical infrastructure to support an integrated live, virtual, and constructive (LVC) training environment and execution of integrated LVC training events throughout the Commander, Pacific Fleet (CPF) Area of Responsibility (AOR). Supports consolidation of the West Coast range networks into the Navy Enterprise Tactical Training Network (NETTN), establishment of an operational LVC Exercise Control (EXCON) facility for the CPF AOR, upgrades voice communications at designated West Coast training ranges to DRMS 5.0, and replaces threat Electronic Warfare (EW) interfaces to support integration of live range EW systems into the NCTE.		
Integration will provide an LVC environment that allows training data of all types to move between training sites on both coasts to ensure the best operational picture is available to the Fleet. Additionally, it will support Large Scale Exercises (LSE) both in CONUS and OCONUS and will enable Fleet trainers to employ an LVC range complex as a resource for units and Strike Groups (SGs) to train and certify for deployment. This is a new Cost Element beginning in FY20.		
[P40A / AVIATION TRAINING & MISSION REHERSAL SECURITY]: Funding this initiative supports the continuing efforts to create a live, virtual, and constructive (LVC) training environment in support of combat readiness. Planned LVC capabilities require aviation training in an LVC environment which includes a training environment classified higher than Secret. Security upgrades to building containing aviation simulators and the Tactical Combat Training System (TCTS) are required to operate and train in the higher than Secret environment required to maintain combat readiness. FY20 funding provides renovation of existing training buildings in ten (10) locations, with remaining three (3) funded in FY21. These security upgrades are necessary to operate and train to the high-end fight in a contested environment without which the LVC 2025 vision cannot be achieved. This is a new Cost Element beginning in FY20.		
[P40A / TRAINING SUPPORT VESSEL (TSV) PROCUREMENT & SUSTAINMENT]: Training Support Vessels (TSVs) are heavily utilized supporting all major Fleet, Integrated and Advanced phase exercises. These exercises require TSVs to participate, as well as numerous events supporting both basic / advanced phases as well as other units that conduct specifically focused training events. In 2020, the Jacksonville Shallow Water Training Range (JSWTR) will have a requirement to provide an additional 120 underway days on existing TSVs. As TSVs enter and leave maintenance phases, there are increasing periods when TSVs are not be available to support directed training exercises. During those times, Offshore Supply Vessels (OSVs) are leased to ensure the Fleet is trained and certified for deployment.		
The ideal fifth (5th) Training Support Vessel (TSV) would be a nominally 200'-240' Offshore Supply Vessel (OSV) with a 140' x 45' open aft deck and a draft of approximately 15'. Similar vessels are currently used by Carrier Strike Group FOUR (CSG4). The TSV will operate day or night, in all-weather, and will operate in support of the Navy's Fleet Training Wholeness (FTW) initiatives and Fleet exercise objectives.		
TSVs provide invaluable training assistance to the Fleet in completing the following: Assists in Assessment and Certification of Carrier Strike Groups, Amphibious Readiness Groups/Marine Expeditionary Units, Surface Action Groups and Independent Deplorers, Atlantic Training Group Basic Phase live fire, Command and Control (C2), HARPOON & High-speed Anti-Radiation Missile (HARM) missile exercise support, HELLFIRE & Advanced Precision Kill Weapon System (APKWS) missile exercise support, Exercise mine laying and retrieval, Opposition Force roles, Maritime Interdiction/Visit Board Search and Seizure, Oil Platform Defense, Anti-piracy, Aerial/Seaborne Target Live Fire Platforms, High Speed Maneuverable Surface Target (HSMST) Launch and Retrieval Platforms, Electromagnetic Maneuver Warfare (EMW) training, Unmanned Air System (UAS) Launch and Retrieval Platforms, Global Positioning System (GPS) Testing Operations, Range Services in support of the Optimized Fleet Response Plan (OFRP), and other exercise/support roles as directed.		
[P40A / TRAINING SUPPORT VESSEL (TSV) COMMUNICATIONS NETWORK SUITE]: An improved communication suite capable of supporting extension of the Navy's East Coast range capabilities and furthering the live, virtual, and constructive (LVC) initiatives underway both on the ranges and inside the combat systems of our ships and aircraft is required. The Navy's Training Support Vessel (TSV) directly supports the maritime strategy by providing training tailored to real-world missions that deploying strike groups encounter. Each TSV is slated to carry a diverse set of emitters and monitoring equipment to improve the Electromagnetic Maneuver Warfare (EMW) training capabilities and create the contested littoral environment critical to modern Fleet training. To operate these enhancements in-scenario and provide the required feedback to exercise control and ultimately the training audience; a robust capability is essential. Sufficient bandwidth, redundancy and flexibility are critical to system performance and successful		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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		
training. An updated Command, Control, Communications, Computers, Cyber and Intelligence (C5I) suite will provide the Navy's TSVs with the requisite capability to perform Exercise Control (EXCON), Electromagnetic Maneuver Warfare (EMW), Opposing Forces (OPFOR), Command and Control (C2) duties during fleet exercises, and the ability to fully participate in global distributed modeling and simulation events in an OPFOR role and support multiple events simultaneously. This is a new Cost Element beginning in FY20. [P40A / FIRE ARMS TRAINING SIMULATOR (FATS)]: Funds provide for procurement of shore-based fire arms training simulators at Center for Submarine Learning (CSL) to reduce time and energy expended for small arms proficiency by personnel assigned to small ships and submarines that lack this capability afloat. These un-tethered weapons systems and scenarios place the students into the action and afford them the ability to freely maneuver and handle the weapons. [P40A / YPYTD - TRAINING DELIVERY SERVICES (TDS)]: Virtual Desktop Infrastructure Initiative. The training enterprise is moving forward with implementing more efficient technologies to meet the training delivery mission via a virtual desktop infrastructure solution. The virtual desktop solution will be implemented over the next several years at each location in lieu of conducting the traditional one-for-one workstation refresh. The goals and benefits of VDI are to establish an agile, sustainable enterprise training delivery environment; standardize the processes, services and technology used to deliver training; improve the enterprise security posture; refresh outdated electronic classroom workstations and operating systems; and provide a solution that enables a streamlined, centralized IT workforce. [P40A / ECR VDI POOL OF DESKTOPS EQUIP. UPGRADE (S2025)]: ECR Virtual Desktop Infrastructure (VDI) Pool of Desktops (POD) Equipment Upgrade - VDI 2.0 for RRL Requirements (Includes Storage, Rack Infrastructure and Backup/System Management Software). Contains additional graphics capability for robust RRL curriculum. Note: Unit cost for VDI 2.0 POD is only marginally different than non-RRL POD cost - just a slightly different configuration. [P40A / ECR Instructor Podium Tech Refresh]: The Naval Education and Training Command (NETC) Electronic Classroom (ECR) Program provides support for classroom and distributive learning environments in 2,500 classrooms at 68 learning sites around the world. The ECR Program requires OPN funds over the FYDP to replace end-of-life networking equipment, and to purchase VDI Electronic Classroom workstations, VDI ECR Pool of Desktops (POD) equipment and software in support of training delivery operation across the enterprise. [P40A / ECR Student Workstation Tech Refresh]: The NETC ECR Program provides support for classroom and distributive learning environments in 2,500 classrooms at 68 learning sites around the world. To meet DoD/DoN IT virtualization mandates, NETC is implementing a Virtual Desktop Infrastructure (VDI) solution that largely eliminates physical workstations in classrooms. Under VDI, students utilize "zero client desktop devices " which provide a user experience similar to physical workstations, without the use of CPU, local storage or Operating Systems. Zero clients take up less space, use less power and give off less heat. No data is stored on classroom zero clients, reducing the amount of local security and compliance work required. Additionally, zero clients are less complex for the NETC IT Support staff to configure, deploy and manage, enabling centralization/consolidation of labor functions. Students access virtualized curriculum software which is run on centralized servers known as Pools of Desktops (PODs). Software patches and security scans can be performed at the server level, as effort is no longer required to handle those same functions on thousands of student seats. In addition to saving electrical power, VDI allows learning site managers to optimize facility utilization by shifting classes to other rooms if necessary since students and instructors are not tied to specific local hardware. The ECR Program requires OPN funds over the FYDP to replace end-of-life networking equipment, and to purchase VDI Electronic Classroom workstations, VDI ECR POD equipment and software in support of training delivery operation across the enterprise. Pool of Desktops (POD) resources used to upgrade/buy equipment vice Tech Refresh here in FY18 and FY19. Also, CISCO servers being replaced in FY19 and FY20. [P40A / ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE)]: ECR VDI Implementation (Virtualization Software). [P40A / CANES Acceleration]: Consolidated Afloat Networks and Enterprise Services (CANES)]: CANES is a new program beginning in FY 2021. Funding provides for procurement of CANES training devices to integrate the CANES Virtual Environment (VE) and planned Multi-purpose Reconfigurable Training System (MRTS) to meet IT A-School and Journeyman Communications Course (JCC) C-School training mission for 2000+ students annually. CANES is the Fleet's core communications capability and training equipment needs to be compatible with the Multi-Purpose Reconfigurable Training System (MRTS) family of trainers and the Virtual Environment which will provide a training environment simulating a variety of shipboard systems. SPAWAR Virtual Environment (VE) training solution approved by OPNAV N2N6 (N2N6-NTSP-E-70-0712A) is cloud-based and training accessed by FCA to support just-in-time advanced skills training. VE resolves current Program-of-Record (POR) Technical Training Equipment (TTE) single-		

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Line Item MDAP/MAIS Code: N/A		
shifted design capacity constraint and will facilitate training of multiple fielded CANES variants. Implementation of VE training solution for CANES will lead to significant reduction in IT workforce constraint caused by current POR TTE training solution, and will yield significant annual travel/per diem cost avoidance (millions) starting in the second year. - Consolidated Afloat Networks and Enterprise Services (CANES): Funds required for SPAWAR and Center for Information Warfare Training (CIWT) to integrate CANES training into the Virtual Environment and the replacement for the Virtual Radio Room suite. Integrating CANES training into the planned single hardware suite (MRTS) to simulate various pieces of Technical Training Equipment (TTE) and reduce life-cycle costs and upgrades. SPAWAR and CIWT will upgrade training system to meet IT A-School and Journeyman Communications course (JCC) C-School training mission for 2000+ students annually [P40A / MAA Active Shooter Training]: Funding supports the design, development, delivery and sustainment of a Tactical Training Simulator. Resourcing required to correct security force and Active Shooter training deficiencies identified during USFF Installation Security Assessments; Washington Navy Yard investigation; VCNO taskers; and meet MA Core and Active Shooter training requirements. The TTS is required to deliver Active Shooter response training for up to 2000 MA students annually. [P40A / Enlisted Accession Mission]: The Submarine Learning Center requires an additional Submarine Common Operational Analysis and Employment Trainer (COAET) with 2 sets (8 ea set)-Virtual Tactical Trainer VTAC w/Beam Simulation For Sonar Trainers (BSST) workstations for acoustic operator individual and team training requirements. This requirement is necessary to meet the Navys FY20 Enlisted Accession Plan for the STS rating. The COAET is a classroom-oriented training device that simulates the controls and displays of the latest available tactical combat control and acoustic systems. COAET provides practical experience of the training applications that do not require a full tactical team trainer. COAET can be rebooted to provide three distinct training modes: Acoustic Analysis Trainer (AAT), Sonar Tactical Decision Aids (STDA) Lab and Team Training. The Phase I COAET utilizes desktop/monitor workstations. This trainer supports team training combining the STS rating with FT Rating Accessions training for practical application in the team training environment. [P40A / Enlisted Accession Increases for STS Rating]: Funding supports Common Operation and Analysis Employment Trainer for Submarine Learning Center in association with an increase to a 44K Enlisted Accession Mission. [P40A / Data Center Consolidation (DCC)]: Baseline Justification: Data Center Consolidation (DCC) funding: In FY20, funding will procure servers (encompassing both hardware and software components), ancillary equipment associated with the servers (racks, cables, switches, etc.), and integration and installation efforts as needed to meet additional hosting requirements as consolidated applications are hosted in approved hosting locations, and as a part of regular data center technical refresh. Regular technical refresh is required to maintain cyber security readiness and accreditation at the data centers. [P40A / Data Center Consolidation]: Data Center Consolidation (DCC) funding: Funds realigned from BSO39 for Data Center and Application Optimization, provide sustainment of data center hardware, software, and licenses for established Component Enterprise Data Centers (CEDCs) and other approved hosting locations as part of the Department of Defense's Information Technology efficiency for the Manpower, Training, and Education (MPT&E) Data Center footprint. The funding enables the MPT&E to implement the Navy Data Center and Commercial Cloud Resourcing Memorandum of Agreement. Funds application hosting costs, continues with consolidation and application migration efforts, and ensure that systems are modernized to sustain security requirements of Navy information and data residing within applications and data centers. Baseline Justification (DCC) funding: In FY20, funding will procure servers (encompassing both hardware and software components), ancillary equipment associated with the servers (racks, cables, switches, etc.), and integration and installation efforts as needed to meet additional hosting requirements as consolidated applications are hosted in approved hosting locations, and as a part of regular data center technical refresh. Regular technical refresh is required to maintain cyber security readiness and accreditation at the data centers. [P40A / RRL Training Technology]: Ready Relevant Learning (RRL) Training Technology solution is conducive to modularization of training. RRL developed curriculum and technology can be used in modular fashion to support Sailor reach back / refresh needs. Virtualizes / Simulates actual equipment or software capability - significantly reducing lifecycle support costs, and duplicative development costs. Implementation is expected to improve delivery of existing training due to a blended training solution eliminating bottlenecks and increased repetition of tasks. RRL Training Technology includes OPN training and education equipment for the Center for Surface Combat Systems (CSCS) 1)Reconfigurable CIC Trainer (RCT) Virtualized High Fidelity Trainer, 2)ET A School MRTS 3D Communications Lab Upgrades, and 3)OS Accelerated Delivery CIC Trainer; Center for Naval Aviation Technical Training (CNATT) 1)A-School Air Conditioning /Reconfigurable Training System; Center for Security Forces (CSF) 1)Tactical Training Simulator (TTS) for MA A School / NTTC Lackland; Center for Information Warfare Training (CIWT) 1)Reconfigurable Training System for AN/SLQ-32(V)6 Maintenance Trainer; and Surface Warfare Officers School 1)Virtual Welding Trainers.		

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Line Item MDAP/MAIS Code: N/A		
[P40A / Reconfigurable CIC Trainer (RCT) Virtualized High Fidelity Trainer]: Fund \$810K OPN for accelerated RCT virtualization development to support Aegis ACB 16 training requirements. The requirement for RCT was driven by the inability of current shipboard trainers to represent advanced threats in realistic operating environments. The RCTs provide training capability for the following Aegis Weapon System Baselines in Advanced Capability Build (ACB) 12 with Common Source Library 18 software: Baseline 9A Cruiser Modernization Baseline 9C Destroyer Modernization Baseline 9D Destroyer New Construction Capability upgrades contained in ACB 16 computer programs represent significant new and enhanced functionality that are not currently scoped in the RCTs. The RCTs must be upgraded to keep pace with the following new ACB 16 combat system capabilities: SEWIP Block II Integration; Radar Cued Engagement Integration; SPQ-9B RADAR Integration; Track Management and Interoperability Improvements; Identification Friend or Foe (IFF) FF Mode 5/S; Air-Space Track Transitions; C4I/C5I integration, MH-60R; SAU-7000 integration; BMD 5.1 integration; Modifications to Next Generation Simulation (NGS). [P40A / OS Accelerated Delivery - CIC Trainer]: OS Accelerated Delivery Media Fidelity Analysis report an approved by the TYCOM, fund development of a CIC simulation within a virtual world that provides realistic software screens and immersive scenarios for OS rating watch stations (i.e., Navigation Chart Plotter, MOBOARD Plotter, R/T Talker, AN/SPA-25G Radar Repeater Operator, SDT, and Lookout). Example scenarios include: Harbor Navigation Package, Loss of Steering Drills, Anchoring, and Plotting PIM Avoidance Courses, Station Changes, and Wind Problems. Screen Kilos, Four-Whiskey (4W) Grids, and Underway Replenishment (UNREP). Man Overboard, Low Visibility, and Flashing Light [P40A / ET A School MRTS 3D Communications Lab Upgrades]: OPN to upgrade existing DDG Radio Room Multi-purpose Reconfigurable Training System 3D (MRTS 3D). Each workstation serves as a platform for operations, maintenance, and troubleshooting/repair procedures and replicates the following radios: HF system/DMR; VHF system/DMR; UHF LOS system/DMR; UHF SATCOM system/DMR; EHF System/NMT; and SHF system/NMT. The trainer emulates realistic scenarios complete with various weather conditions, speeds, and courses in which ships operate. An instructor operator station provides the capability to track, store and report student performance. It lets the instructor prescribe the training event using scenarios and configurations relevant to the level of training required. The ability to reconfigure the layout provides a broader range of training and adds a higher level of specificity to the training environment. [P40A / Tactical Training Simulator (TTS) for MA A School / NTTC Lackland]: OPN to install one (1) Tactical Training Simulator (TTS) for MA A-School at NTTC Lackland. Resourcing required to correct security force and Active Shooter training deficiencies identified during USFF Installation Security Assessments; Washington Navy Yard investigation; VCNO taskers; and meet MA Core and Active Shooter training requirements as documented in USFF ltr +Ser N1/169 dtd 07 AUG 2014 (endorsed by N95 03 OCT 2014); and DoDI 5525.15 (Law enforcement (LE) Standards and Training in the DoD). The TTS is required to deliver Active Shooter response training for up to 2000 MA students annually. This is a top issue on the USFF and CNO Antiterrorism priority list. The TTS at Lackland is required to fully implement Security Reaction Force-Basic; Security Reaction Force-Advanced and Active Shooter Response training into the MA A School course of instruction to meet the MA CORE training requirements as delineated in USFF let Ser N1/169 dtd 07 AUG 2014 (endorsed by N95 on 03 OCT 2014). [P40A / Reconfigurable Training System for AN/SLQ-32(V)6 Maintenance Trainer]: OPN for a Reconfigurable Training System using gaming technology to enhance AN/SLQ-32(V)6 Maintenance Training which is used to train AN/SLQ-32(V)6 technicians on the V6 system Preventive and Corrective maintenance at IWTC Corry Station in Pensacola Florida. Investment would increase production to meet the identified Fleet demand signal for AN/SLQ-32(V)6 technicians, eliminate current Technical training Equipment reliability concerns, and reduce implementation costs in infrastructure and curriculum development due to synchronicity with current investment. This training system and the associated curriculum would provide cost avoidance against cost associated with current extended funding profile. [P40A / AS A-School Air Conditioning and Reconfigurable Training System]: OPN for developing training software for AS A-School Air Conditioning Systems with gaming technology. Trainers are used to demonstrate basic operation of an air conditioner, refrigeration cycle, and simulation of proper Freon recovery and recharging processes. Existing trainers built in 1967, modified in 1996 and have surpassed life expectancy (obsolete) for repair capabilities and use refrigerant R-22 which under Sections 601 thru 607 of Clean Air Act will be removed from use, production and import by 2020. Course updates to include classroom Instructor Led and Computer Aided Instruction as well as a virtual trainer using gaming technology to reinforce learning concepts. Developed curriculum and technology can be used in modular fashion		

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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		
to support Sailor reach back / refresh needs. Virtualizes / Simulates actual equipment or software capability - significantly reducing lifecycle support costs, and duplicative development costs. Implementation is expected to improve delivery of existing training due to a blended training solution eliminating bottlenecks and increased repetition of tasks.		
[P40A / Virtual Welding Trainers]: The solution is conducive to Ready Relevant Learning (RRL) modularization of training. Developed curriculum and technology can be used in modular fashion to support Sailor reach back / refresh needs. Virtualizes / Simulates actual equipment or software capability - significantly reducing lifecycle support costs, and duplicative development costs. Implementation is expected to improve delivery of existing training due to a blended training solution eliminating bottlenecks and increased repetition of tasks.		
[P40A - 2 / U.S. Naval Academy (USNA)]: The U.S. Naval Academy mission is to develop midshipmen morally, mentally and physically and to imbue them with the highest ideals of duty, honor and loyalty in order to graduate leaders who are dedicated to a career of naval service and have potential for future development in mind and character to assume the highest responsibilities of command, citizenship and government. The Academic and Professionally Accredited Enterprise Education Enclave (AEEE) system must ensure the best educated and most qualified junior officers enter the naval service. The Naval Academy must maintain the highest standards in academic disciplines and supporting infrastructure. Planned upgrades and replacements are vital in ensuring graduates are technologically prepared to serve in tomorrow's Fleet and Fleet Marine Force while supporting institutional accreditation and competitiveness with peer institutions. System supports the sole Navy undergraduate degree-granting higher education command. Hybrid network enclave serves as a dynamically variable resource for multifaceted teaching, education, and research activities in a blended physical/virtual campus environment similar to four-year civilian universities. Functionality includes collegiate-level admissions outreach, curriculum development, course delivery, pedagogical research, extra-curricular activities, and intercollegiate sports		
[P40A - 2 / M. LAN Room Video Surveillance]: New start in FY2020, Provides current technology capability for management and protection of the Academy's numerous distributed local area network equipment spaces. The system will provide integrated card reader systems for controlled access and cameras for real-time and recorded playback of critical infrastructure locations to ensure a safe and secure enterprise computing environment.		
[P40A - 2 / R. Backup System Replacement]: Provides for IT hardware and software to replace obsolete tape library. The proposed replacement system will facilitate faster and more reliable backup of enterprise data using current technologies.		
[P40A - 2 / B. Advanced Computing Cluster Replacement]: Provides a replacement high-end computer cluster for midshipmen and faculty computational requirements in science and technology disciplines. Applications supported include flow visualization, computer-aided design and computational fluid dynamics. The server also provides central file back-up, software and communication services for numerous laboratories, classrooms and courses. The computer will replace a device for which incremental upgrades will no longer be feasible due to intervening technological advancements. Sustainment of current services is essential to maintaining relevance of Naval Academy advanced academic computational research involving large or complex data sets. The replacement annually benefits approximately 100 midshipmen, faculty and staff by providing state of the art computing capabilities.		
[P40A - 2 / L. Chromatography Replacement]: Provides physical apparatus for chemistry laboratory study of spectral series. This capability will permit measurement and demonstration of chemical processes at the visible spectrum level critical to understanding of naval and other technologies.		
[P40A - 2 / I. Pelletron Accelerator Replacement]: Replaces an existing Pelletron Accelerator and associated support equipment. The device permits study and experimentation in the area of nuclear physics.		
[P40A - 2 / J. Electric Dynamometer]: Provides capability for study of motoring engines. Permits improved engine control along with data acquisition and processing capability for the determination of friction horsepower and other metrics vital to student understanding of diesel and turbine propulsion engines.		
[P40A - 2 / H. Voice Switch S/W Upgrades (IP Telephony)]: Provides for upgrade, modernization and/or replacement of current voicemail system to maintain technical equivalence and interoperability with evolving marketplace. Ensures critical operational functionality continues to support voice messaging needs across USNA stakeholder community.		
[P40A - 2 / N. Mission System Host Platform]: New start in FY 2020, provides for life-cycle upgrade and replacement of IT hardware hosting information system applications meeting specific USNA requirements in academic, administrative, athletic, and professional areas.		

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Line Item MDAP/MAIS Code: N/A		
[P40A - 2 / K. Auditorium Sound System Replacement]: Provides for lifecycle replacement of speaker cluster and sound system in heavily-used, multifunctional presentation and performance facility. Delivers modern audio capabilities to meet diverse range of educational, professional, and athletic events hosted in the multi-purpose Alumni Hall facility. The system provides capability of multi-directional sound propagation allowing audience members increased fidelity and comprehension of audio components. [P40A - 2 / O. Microscale Thermal Transport Replacement]: Funding provides for replacement of physical apparatus for propulsion laboratory study of nano-technology based heat transfer and thermal sciences. This capability permits measurement and demonstration of electromagnetic (thermal) processes at the nano-technology level critical to naval propulsion technology. [P40A - 2 / P. Enterprise Network Upgrades]: Funding provides for: Permits modular, phased upgrades, replacement, and modernization of the Academy's enterprise computing network to maintain currency with changing industry standards and user demands. Provides for replacement of aging switches and routers used to direct data communication traffic across fiber optic cables to various places throughout the enterprise. [P40A - 2 / Q. Anechoic Chamber System]: Funding provides for Antenna testing chamber to replace current system in Ri-061 which is custom built into the building and cannot be relocated. Used by Midshipmen in pursuit of majors, electives and research. [P40A - 2 / U. Field House Scoreboard]: Provides for lifecycle replacement of Wesley Brown Fieldhouse scoreboard used for indoor track and other sports. The system provides capability of multi-media scoring and video replay in support of NCAA and league requirements. [P40A - 2 / Sustain Hopper Hall Technology]: Hopper Hall is a new USNA Cyber facility scheduled to open in FY20 (OCT 2019). Hopper Hall represents a Navy/Government strategic investment to produce a superior foundation in the global domain of Cyber warfare and represents a strategic focus to strengthen warfighting readiness and capabilities in which Cyber warfare will become an increasing factor. Hopper Hall will become an asset where Government, Industrial and Military leaders will inform future generations of Naval Officers to create an optimum platform to prepare and defend against this growing and evolving threat. The center will be the first building on the Yard with a SCI capability. [P40A - 2 / HOPPER - Underwater motion capture system for Hopper Hall SURF]: This is a new start in FY20. Mission Essential - Support Equipment for Hopper Hall SURF: The underwater motion capture system is needed for work on underwater robotics (UUVs), while the above-water motion capture system is used for both aerial (UAV) and surface (USV) units. [P40A - 2 / HOPPER - Above water motion capture system for Hopper Hall SURF]: This is a new start in FY20. Mission Essential - Support Equipment for Hopper Hall SURF: The SURF is to be used for teaching fundamentals of unmanned surface vehicles (USVs), unmanned underwater vehicles (UUVs), and for cooperative studies for aerial, surface, and undersea robots. [P40A - 2 / HOPPER - Above water motion capture system for Hopper Hall AerTeMis]: This is a new start in FY20. Mission Essential - Support Equipment for Hopper Hall AerTeMis: Lab used to teach fundamentals of UAVs and multi-agent systems in a safe and controlled environment. This facility is to be used for beginning classroom instruction, when crashes are unavoidable. It is also to be used for testing of high-end (expensive) equipment and aggressive controls and tactics with high risk. The motion capture system is needed for all aspects of this testing environment. [P40A - 2 / HOPPER - ECE Anechoic Chamber Lab / System]: This is a new start in FY20. Antenna testing chamber to replace current system in Ri-061 which is custom built into the building and can't be relocated. Used by EE372, major electives, and midshipmen and faculty research.		

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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										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Training Support Equipment	P-5a, P-21			- / 4.745	- / 22.806	- / 18.364	- / 93.883	- / -	- / 93.883
P-40a	Education Support Equipment	P-5a			- / 1.602	- / 3.218	- / 2.319	- / 3.753	- / -	- / 3.753
P-40	Total Gross/Weapon System Cost				- / 6.347	- / 26.024	- / 20.683	- / 97.636	- / 0.000	- / 97.636
*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: TRAINING SUPPORT EQUIPMENT - FY19 to FY20 increase reflects the procurement of additional items for the Navy Continuous Training Environment (NCTE) baseline infrastructure, Aviation Training and Mission Rehearsal Security, a fifth (5th) Training Support Vessel (TSV), TSV Communications Network Suite (C5I) and Naval Education and Training Center investments in active shooter, STS rating training and Ready Relevant Learning (RRL). \$59.6 million of the increase (Cost Elements 1.1 through 1.12) from FY19 to FY20 procures equipment and systems to continue creation of the live, virtual, and constructive (LVC) training range, which has seen significant growth to meet the Fleet's integrated Fleet Training Wholeness demands and to maintain systems cyber security. This entire effort is in support of the March 2018, SECNAV report to Congress for Live, Virtual, and Constructive (LVC). It includes \$42.9 million in new starts in FY20 (Cost Elements 1.10 - 1.12) to begin integration of disparate networks, incorporation of aviation training facilities and creation of a critical at-sea capability to support LVC training for the Fleet. \$15.1 million of the increase (Cost Elements 1.13 through 1.14) from FY19 to FY20 procures a fifth (5th) Training Support Vessel (TSV) and provides the existing four TSVs with a Communications Network Suite. 1.1 LIFE CYCLE MANAGEMENT (LCM): FY19 to FY20 decrease is reflective of fluctuations in life cycle requirements due to differing equipment service life expectancies and upgrade requirements. NCTE Tier 1 hardware refresh/replacement includes routers, switches, firewalls, computers, network time servers, and desktop/servers/zero-clients to provide continued availability of services and comply with cyber security requirements including proxy firewalls and web proxies' requirements. 1.2 BALLISTIC MISSILE DEFENSE (BMD): Funding for Ballistic Missile Defense (BMD) will support BMD and Integrated Air Missile Defense (IAMD) mission area requirements by providing resources for LVC training architecture technical refresh, compliance with cybersecurity requirements and sustain the ability to train and certify BMD mission capable ships. FY20 funding will procure network hardware and software to maintain network operability and cybersecurity from intrusion of hostile countries and entities. FY19 to FY20 increase is due to equipment cost inflation. 1.3 BALLISTIC MISSILE DEFENSE (BMD) FLEET SYNTHETIC TRAINING (FST) at Sea: FY19 to FY20 increase is due to equipment cost inflation. 1.4 ANTI-ACCESS AREA DENIAL (A2AD): FY19 to FY20 increase is reflective of unit cost increases and the higher shipping costs to the various Fleet concentration areas for equipment installations. FY20 funding also procures additional A2AD capability gateway portable embarkation kits to provide a training capability against the high end A2AD, cyber, Information Warfare (IW), and Electronic Warfare (EW) threat during Carrier Strike Group (CSG) Navy training events/exercises. 1.6 DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS: Digital Radio Management System (DRMS) Wholeness provides expanded capacity, improved reliability, and increased Radio Frequency (RF) spectrum to live voice communications for Tactical Training Ranges (TTR) and the Navy Continuous Training Environment (NCTE). Procures a single Fleet Synthetic Training (FST) communications system enabling realistic tactical communications across all warfare areas, classification levels, and releasable domains. This effort completes in FY19.										

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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		
1.7 NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA): FY19 to FY20 increase is to establish a steady state production of systems supporting NIFC-CA training requirement, following initial prototyping efforts, as well as adjust for inflation. The capabilities will supplement and integrate existing platform-level program of record solutions and is complimentary to Navy efforts to deliver From the Sea (FTS) training capabilities. The Navy LVC training capability funds the necessary equipment to support NIFC-CA training used by the U. S. Navy. Procures additional Cooperative Engagement Capability (CEC) Interim Training (CIT) System portable embarkation kits to support Carrier Strike Group (CSG) Fleet training requirements. 1.8 IMPASS SCORING SYSTEM: FY19 to FY20 increase supports phased system replacement and modernization of the Integrated Maritime Portable Acoustic Scoring & Simulation (IMPASS) system as required by the Life Cycle Management Plan (LCMP). IMPASS is the only accredited means for Atlantic Fleet CGs and DDGs and Forward Deployed Naval Forces (FDNF) Rota DDGs with five (5) inch guns to attain Naval Gunfire Support certification. Funding in FY18 of \$2.2 million completed a complete system technical refresh. Sustainment funding requirement is \$.5 million every other year. 1.9 FLEET TRAINING WHOLENESS (FTW): FY19 to FY20 due to increase in Fleet wide BFAS installations, 23 to 51, and commencement of Tactical Combat Training System (TCTS) equipment procurement. These installations support achievement of Fleet Training Wholeness (FTW) objectives through continued integration of Fleet units and capabilities into a live, virtual, and constructive (LVC) training environment to meet critical combat readiness requirements in support of Navy missions. Instituting an at-sea Fleet Synthetic Training (FST) capability for non-Ballistic Missile Defense (BMD) Aegis and Ship Self-Defense System (SSDS) ships builds upon BMD FST at Sea (BFAS) capability and provides expanded capability for combatant ships to participate in COCOM/Navy Component Commander exercises while underway to maintain mission readiness. Funding across the FY20-24 FYDP will provide for procurement of equipment to support FST at Sea capability for non-BMD Aegis and SSDS platforms and procurement of Total Ship Training Capability (TSTC) shipboard synthetic radios required for realistic command and control (C2) representation in an LVC environment. 1.10 EAST COAST TRAINING NETWORK CONSOLIDATION - This is a new Cost Element beginning in FY20, representing an increase of \$18.6 million. Network consolidation provides high return-on-investment (ROI) by integrating critical existing components and providing critical technology to support LVC training, specifically the interface between the synthetic and live capabilities. Funding supports Phase II of network consolidation and long term Fleet Training Wholeness (FTW) priorities for Electronic Warfare, Cyber, Space, Air, Undersea, and Surface Warfare domains by integrating Fleet tactical training ranges and systems with the Navy Continuous Training Environment (NCTE). Live, virtual, and constructive (LVC) ranges will be connected and integrated initially on the east coast. FY20 funding includes establishment of an east coast Exercise Control (EXCON) facility. Funding FY21-24 provides for the EXCON facility's equipment required to meet the training objectives for LVC events supporting units and strike groups (SGs) to be trained for the high end threat in support of Optimized - Fleet Response Plan (O-FRP). 1.11 WEST COAST TRAINING NETWORK CONSOLIDATION - This is a new Cost Element beginning in FY20, representing an increase of \$10.9 million. Network consolidation provides high return-on-investment (ROI) by integrating critical existing components and providing critical technology to support LVC training, specifically the interface between the synthetic and live capabilities. For FY20-24, this issue supports system integration at the Southern California Offshore Range (SCORE), Southwest Tactical Training Range (SWTTR), Northwest Tactical Training Range (NWTTR), and Pacific Northwest Range (PACNORWEST) ranges. Additionally, this issue supports consolidating the west coast range networks into the Navy Enterprise Tactical Training Network (NETTN), establishment of an operational LVC Exercise Control (EXCON) facility for the CPF AOR, upgrades to voice communications at designated west coast training ranges to DRMS 5.0, and integration of threat EW systems capable of simultaneously operating in live and synthetic environments through use of a common protocol and integrated into the NCTE. This funding also provides for the equipment required to meet the training objectives for LVC events supporting units and strike group (SGs) to be trained for the high end threat in support of Optimized - Fleet Response Plan (O-FRP). 1.12 AVIATION TRAINING & MISSION REHEARSAL SECURITY - This is a new Cost Element beginning in FY20, representing an increase of \$10.7 million. Future aircraft software upgrades require increased security in the buildings that house F/A-18E/F and E/A-18G training systems to maintain operational readiness. Building security upgrades are necessary to operate and train in a higher than Secret environment without which the LVC 2025 vision cannot be achieved. Planned LVC capabilities require aviation training in an LVC environment which includes training in a classified environment higher than Secret. Security upgrades to building containing aviation simulators and the Tactical Combat Training System (TCTS) are required to operate and train in the higher than Secret environment required to maintain combat readiness. Funding supports conversion of existing training and TCTS facilities to meet ICD 705 Sensitive Compartmented Information Facility (SCIF) / Special Access Program Facility (SAPF) security requirements. FY20 funding will provide conversion at ten (10) of 13 total locations, with the remaining three (3) locations programmed for FY21. 1.13 TRAINING SUPPORT VESSEL (TSV) PROCUREMENT & SUSTAINMENT: This funding was realigned from BSO 24/BLI 4204 to BSO 60/BLI 8101 beginning in FY20. A fifth (5th) Training Support Vessel (TSV) will ensure availability, utility and long term viability of TSV support to Multi-Ship Group Sail (GRUSL) Exercises, Independent Deplorer Certification Exercise (IDCERTX), Composite Training Unit Exercises (COMPTUEX), Afloat Training Group (ATG) training, and Large Scale Integrated Training Events (LSE). The Navy's Optimized Fleet Response Plan (OFRP) demands exceed the capabilities of the		

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Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 1: Training Devices		P-1 Line Item Number / Title: 8101 / Training and Education 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		
current inventory of TSVs. They are often unavailable to provide a realistic training (peer competitor) environment in which to conduct certification events. The required pacing threat OPFOR capabilities exceed the current TSV capacity in areas such as Assured Access, Sea Control, Command and Control in a Degraded and Denied Environment (C2D2E), and Electromagnetic Maneuver Warfare (EMW). 1.14 TRAINING SUPPORT VESSEL (TSV) COMMUNICATIONS NETWORK SUITE: This is a new Cost Element beginning in FY20. Provides for procurement of an updated command, control, communications, computers, cyber and intelligence (C5I) suite for three (3) TSV's to provide the requisite capability to perform Exercise Control (EXCON), Electromagnetic Maneuver Warfare (EMW), opposing force (OPFOR), command and control (C2) duties during Fleet exercises, as well as the ability to fully participate in global distributed modeling and simulation events in an OPFOR role and support multiple events simultaneously. ===== FY20 Education Support Equipment: 1.2 Backup System Replacement: Provides for IT hardware and software to replace obsolete tape library. The proposed replacement system will facilitate faster and more reliable backup of enterprise data using current technologies. 1.4 Virtual Desktop Infrastructure: Provides lifecycle replacement of outdated electronic classroom workstations and operating systems by standardizing content delivery through central hosting to reduce operating costs and information assurance risks. Replacement sustains current teaching and learning capabilities utilized on a daily basis by 4,500 midshipmen and 2,000 faculty and staff in meeting USNA academic and administrative requirements. 1.5 Advanced Computing Cluster Replacement: Provides a replacement high-end computer cluster for midshipmen and faculty computational requirements in science and technology disciplines. Applications supported include flow visualization, computer-aided design and computational fluid dynamics. The server also provides central file back-up, software and communication services for numerous laboratories, classrooms and courses. The computer will replace a device for which incremental upgrades will no longer be feasible due to intervening technological advancements. Sustainment of current services is essential to maintaining relevance of Naval Academy advanced academic computational research involving large or complex data sets. The replacement annually benefits approximately 100 midshipmen, faculty and staff by providing state of the art computing capabilities. 1.6 Bridge Simulator Upgrade: Provides life-cycle upgrades to extend the useful life of two existing full-mission bridge simulator devices used for watch standing training and qualification of midshipmen. It is also used for demonstrations of ship handling and navigation learning points not otherwise possible to convey through existing underway laboratories (i.e. Yard Patrol Craft). 1.7 Articulated Hub & Rotor Blade Assembly: Provides for life-cycle upgrades to conduct rotary-wing aerodynamic and performance testing in support of the engineering curriculum and research related to fluid dynamics, vibrations, acoustics, structural dynamics, flight propulsion, helicopter performance and aerodynamics. The equipment will replace existing assets acquired in the 1970s that are no longer viable. Failure to sustain currency of the USNA aeronautical engineering program risks loss of accreditation and inability to meet Navy demand for officers with subspecialty education backgrounds in the aviation field. This line item annually benefits midshipmen, faculty and staff, and enables USNA to provide 35% of midshipmen with practical, experimental, and theoretical applications/experiences within aerospace and mechanical engineering and related mathematics and physics courses. Without this tech refresh science, technology, engineering, and mathematic (STEM) majors would be at risk for accreditation 1.8 Chromatography Replacement: Provides physical apparatus for chemistry laboratory study of spectral series. This capability will permit measurement and demonstration of chemical processes at the visible spectrum level critical to understanding of naval and other technologies. 1.9 Telephony: This Voice Over Internet Protocol (VOIP) system transitions from copper telecommunications services to internet protocol (IP) by 2020 in accordance with DoD direction. 1.10 Pelletron Accelerator Replacement: Replaces an existing Pelletron Accelerator and associated support equipment acquired in FY 1988. The device permits study and experimentation in the area of nuclear physics at USNA.		

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Line Item MDAP/MAIS Code: N/A		
1.11 Electric Dynamometer: Provides capability for study of motoring engines. Permits improved engine control along with data acquisition and processing capability for the determination of friction horsepower and other metrics vital to student understanding of diesel and turbine propulsion engines. 1.12 Microfabrication Facility: Provides capability to educate midshipmen in micro-fabrication technology through photolithography and with other techniques. Equipment would be used to demonstrate metal deposition and surface micro-machining techniques, along with alignment and ultraviolet exposure of coated wafers for bulk silicon etching through wafer masking. These capabilities are the foundation for semi-conductor, nana-system, and micro scale heat transfer topics in various engineering courses. This will keep the academic curriculum current by providing an operational capability that allows midshipmen to conduct hands-on experiments in areas increasingly important to national defense. 1.13 Voice Switch Software Upgrades: FY 2019 provides software updates and IP voice telephony to maintain technical equivalence and interoperability with evolving marketplace requirements. Upgrades directly benefit 4,000 end-users reliant on voicemail services in meeting Naval Academy academic, professional, and athletic mission requirements. This enables faculty, staff, and midshipmen to maintain communication regardless of their location. 1.14 Mission System Host Platform (\$0.604M in FY20 and \$0.489M in FY 2023) Provides for replacement of IT hardware hosting information system applications meeting specific Naval requirements in academic, administrative, athletic, and professional areas. FY23 Provides for life-cycle upgrade and replacement of IT hardware hosting information system applications meeting specific Naval requirements in academic, administrative, athletic, and professional areas. 1.15 Coastal Engineering Tank Wave-Maker Replacement: Provides for end-of-life replacement of wave-maker acquired in FY 1978. The existing wave-maker is unable to produce the quality of waves required for academic instruction and research. The replacement wave-maker will reduce the need for unplanned emergency repairs which jeopardize ongoing operations. Restoration of as-built capabilities is essential to maintaining relevance of Naval Academy near-shore educational programs annually benefitting approximately 250 midshipmen, faculty and staff. Failure to restore system performance risks loss of accreditation and inability to meet Navy demand for officers with subspecialty education backgrounds in the Ocean Engineering field. 1.16 Auditorium Sound System Replacement: Provides for lifecycle replacement of FY 2009 speaker cluster and sound system in heavily-used, multifunctional presentation and performance facility. Delivers modern audio capabilities to meet diverse range of educational, professional, and athletic events hosted in the multi-purpose Alumni Hall facility. The system provides capability of multi-directional sound propagation allowing audience members increased fidelity and comprehension of audio components. 1.17 Microscale Thermal Transport Replacement: Provides for replacement of physical apparatus for propulsion laboratory study of nano-technology based heat transfer and thermal sciences acquired FY 2010. This capability permits measurement and demonstration of electromagnetic (thermal) processes at the nano-technology level critical to naval propulsion technology. 1.18 Enterprise Network Upgrades: Permits modular, phased upgrade, replacement, and modernization of the Naval Academy's enterprise computing network to maintain currency with changing industry standards and user demands. Provides for replacement of aging switches and routers used to direct data communication traffic across fiber optic cables to various places throughout the enterprise. 1.19 Particle Image Velocimeter : Provides for replacement of physical apparatus acquired during FY 2015 used for instantaneous flow field measurements and individual tracking of particle paths during fluid flow. The velocimeter is required for extensive classroom and laboratory support of several engineering disciplines. 1.20 Food Service Equipment: Provides for replacement of various food preparation and related galley equipment in support of meal services benefitting USNA's 4400-member Brigade of Midshipmen. Existing equipment is projected to reach the end of their design service life in 2021. 1.21 Arena Scoreboard: Provides for lifecycle replacement of Wesley Brown Fieldhouse scoreboard used for indoor track and other sports originally acquired FY 2008. The system provides capability of multi-media scoring and video replay in support of NCAA and league requirements. 1.22 Universal Wireless Telecommunications System: Extends cellular coverage to several academic buildings for enhancement of classroom and laboratory instruction as existing mobile communications coverage within these facilities is inadequate to accommodate evolving science, technology, engineering and math (STEM) and cyber computing needs of midshipmen, faculty, staff, and visiting public.		

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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		
2.0 Sustain Hopper Hall Technology: Hopper Hall supports DON/DoD Guidance/Strategy based on the decision to invest in establishing a facility to expand and promote growth in the rapidly evolving area of Cyber Warfare. Cyber is a global domain that is evolving rapidly. The Security of Cyber Studies is an investment that will become a strategic focus for existing and future Naval Officers. The Cyber Center will enable the Navy and the DoD to establish a superior position in Cyber and to integrate this capability across all warfighting specialties. Ultimately, Hopper Hall supports DoD/DON strategy by investing in Force Readiness, Force Support and Force Growth (Intellectual) to sustain the Naval Force as a superior Global Power in all Domains. 2.1 HOPPER - Underwater motion capture system for Hopper Hall SURF: Mission Essential - Support Equipment for Hopper Hall SURF: The underwater motion capture system is needed for work on underwater robotics (UUVs), while the above-water motion capture system is used for both aerial (UAV) and surface (USV) units. The increase is due to a new start in FY2020. 2.2 HOPPER - Above water motion capture system for Hopper Hall SURF: Mission Essential - Support Equipment for Hopper Hall SURF: The SURF is to be used for teaching fundamentals of unmanned surface vehicles (USVs), unmanned underwater vehicles (UUVs), and for cooperative studies for aerial, surface, and undersea robots. The increase is due to a new start in FY2020. 2.3 HOPPER - Above water motion capture system for Hopper Hall AerTeMis Mission Essential - Support Equipment for Hopper Hall AerTeMis: Lab used to teach fundamentals of UAVs and multi-agent systems in a safe and controlled environment. This facility is to be used for beginning classroom instruction, when crashes are unavoidable. It is also to be used for testing of high-end (expensive) equipment and aggressive controls and tactics with high risk. The motion capture system is needed for all aspects of this testing environment. The increase is due to a new start in FY2020. 2.4 HOPPER - ECE Anechoic Chamber Lab / System Antenna testing chamber to replace current system in Ri-061 which is custom built into the building and can't be relocated. Used by EE372, major electives, and midshipmen and faculty research. The increase is due to a new start in FY2020.		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy																Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1								P-1 Line Item Number / Title: 8101 / Training and Education Equipment								Aggregated Items Title: Training Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) TRAINING SUPPORT EQUIPMENT																					
1.1) LIFE CYCLE MANAGEMENT (NCTE) ^{(1)(t)}	A		1,681K	1	1.681	3,964K	1	3.964	2,458K	1	2.458	2,381K	1	2.381	-	-	-	2,381K	1	2.381	
1.2) BALLISTIC MISSILE DEFENSE (BMD) ^{(2)(t)}	A		-	-	-	2,113K	1	2.113	2,152K	1	2.152	2,193K	1	2.193	-	-	-	2,193K	1	2.193	
1.3) BMD FST AT SEA ^{(3)(t)}	A		208,000.00	1	0.208	218,000.00	1	0.218	168,000.00	1	0.168	171,000.00	1	0.171	-	-	-	171,000.00	1	0.171	
1.4) ANTI-ACCESS AREA DENIAL (A2AD) ^{(4)(t)}	A		194,500.00	2	0.389	227,000.00	2	0.454	226,500.00	4	0.906	253,500.00	8	2.028	-	-	-	253,500.00	8	2.028	
1.5) COMMON DATA LINK (CDL) ^{(5)(t)}	A		324,000.00	1	0.324	300,000.00	1	0.300	-	-	-	-	-	-	-	-	-	-	-	-	
1.6) DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS ^{(6)(t)}	A		1,327K	1	1.327	1,244K	1	1.244	1,100K	1	1.100	-	-	-	-	-	-	-	-	-	
1.7) NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA) ^{(7)(t)}	A		284,000.00	1	0.284	551,000.00	1	0.551	566,000.00	1	0.566	577,000.00	1	0.577	-	-	-	577,000.00	1	0.577	
1.8) IMPASS SCORING SYSTEM ^{(8)(t)}	A		-	-	-	2,200K	1	2.200	-	-	-	500,000.00	1	0.500	-	-	-	500,000.00	1	0.500	
1.9) FLEET TRAINING WHOLENESS (FTW) ^{(9)(t)}	A		-	-	-	-	-	-	5,400K	1	5.400	11,600K	1	11.600	-	-	-	11,600K	1	11.600	
1.10) EAST COAST NETWORK CONSOLIDATION ^{(10)(t)}	A		-	-	-	-	-	-	-	-	-	18,600K	1	18.600	-	-	-	18,600K	1	18.600	
1.11) WEST COAST NETWORK CONSOLIDATION ^{(11)(t)}	A		-	-	-	-	-	-	-	-	-	10,900K	1	10.900	-	-	-	10,900K	1	10.900	
1.12) AVIATION TRAINING & MISSION REHERSAL SECURITY ^{(12)(t)}	A		-	-	-	-	-	-	-	-	-	10,700K	1	10.700	-	-	-	10,700K	1	10.700	
1.13) TRAINING SUPPORT VESSEL (TSV)	A		-	-	-	-	-	-	-	-	-	12,400K	1	12.400	-	-	-	12,400K	1	12.400	

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Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1							P-1 Line Item Number / Title: 8101 / Training and Education Equipment							Aggregated Items Title: Training Support Equipment						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
PROCUREMENT & SUSTAINMENT ^{(13)(†)}																				
1.14) TRAINING SUPPORT VESSEL (TSV) COMMUNICATIONS NETWORK SUITE ^{(14)(†)}	A		-	-	-	-	-	-	-	-	-	2,700K	1	2.700	-	-	-	2,700K	1	2.700
Subtotal: 1) TRAINING SUPPORT EQUIPMENT			-	-	4.213	-	-	11.044	-	-	12.750	-	-	74.750	-	-	-	-	-	74.750
2) Fire Arms Training Simulator																				
2.1) FIRE ARMS TRAINING SIMULATOR (FATS) ⁽¹⁵⁾	A		-	-	-	237,000.00	2	0.474	172,000.00	1	0.172	181,000.00	1	0.181	-	-	-	181,000.00	1	0.181
Subtotal: 2) Fire Arms Training Simulator			-	-	0.000	-	-	0.474	-	-	0.172	-	-	0.181	-	-	-	-	-	0.181
3) YPYTD - TRAINING DELIVERY SERVICES (TDS)																				
3.1) ECR VDI POOL OF DESKTOPS EQUIP. UPGRADE (S2025) ^{(16)(†)}	A		-	-	-	146,000.00	7	1.022	172,000.00	20	3.440	172,000.00	7	1.204	-	-	-	172,000.00	7	1.204
Subtotal: 3) YPYTD - TRAINING DELIVERY SERVICES (TDS)			-	-	0.000	-	-	1.022	-	-	3.440	-	-	1.204	-	-	-	-	-	1.204
4) Electronic Classroom (ECR) Program																				
4.1) ECR Instructor Podium Tech Refresh ⁽¹⁷⁾	A		1,000.00	216	0.216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2) ECR Student Workstation Tech Refresh ^{(18)(†)}	A		1,092.59	216	0.236	-	-	-	1,000.00	1	0.001	1,000.00	528	0.528	-	-	-	1,000.00	528	0.528
4.3) ECR Graphics Offload Server (Test Unit)	A		15,500.00	2	0.031	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.4) ECR Virtual Desktop Infrastructure (VDI) Pool of Desktops (POD) Equipment ^(†)	A		-	-	-	138,000.00	5	0.690	-	-	-	-	-	-	-	-	-	-	-	-
4.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE) ^{(19)(†)}	A		-	-	-	-	-	-	1,000K	2	2.000	2,000.00	610	1.220	-	-	-	2,000.00	610	1.220
4.6) ECR VDI/ VIRTUAL SERVER	A		24,500.00	2	0.049	6,448.00	375	2.418	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1								P-1 Line Item Number / Title: 8101 / Training and Education Equipment							Aggregated Items Title: Training Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
SERVICES IMPLEMENTATION ^(†)																				
4.7) Microsoft Office 2016 Software for ECR student seats ^(†)	A		-	-	-	483.62	2,497	1.208	1,000.00	1	0.001	-	-	-	-	-	-	-	-	-
Subtotal: 4) Electronic Classroom (ECR) Program			-	-	0.532	-	-	4.316	-	-	2.002	-	-	1.748	-	-	-	-	-	1.748
5) Multi-purpose Reconfigurable Training System (MRTS)																				
5.1) Multi-purpose Reconfigurable Training System (MRTS) ^(†)	A		-	-	-	5,400K	1	5.400	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 5) Multi-purpose Reconfigurable Training System (MRTS)			-	-	0.000	-	-	5.400	-	-	-	-	-	-	-	-	-	-	-	-
7) MAA ACTIVE SHOOTER TRAINING																				
7.1) MAA Active Shooter Training ^(†)	A		-	-	-	-	-	-	-	-	-	2,000K	1	2.000	-	-	-	2,000K	1	2.000
Subtotal: 7) MAA ACTIVE SHOOTER TRAINING			-	-	0.000	-	-	-	-	-	-	-	-	2.000	-	-	-	-	-	2.000
8) Enlisted Accession Mission																				
8.1) Enlisted Accession Increases for STS Rating ^(†)	A		-	-	-	-	-	-	-	-	-	7,500K	1	7.500	-	-	-	7,500K	1	7.500
Subtotal: 8) Enlisted Accession Mission			-	-	0.000	-	-	-	-	-	-	-	-	7.500	-	-	-	-	-	7.500
9) Data Center Consolidation (DCC) ⁽²⁰⁾																				
9.1) Data Center Consolidation ^(†)	A		-	-	-	-	-	-	-	-	-	1,500K	1	1.500	-	-	-	1,500K	1	1.500
Subtotal: 9) Data Center Consolidation (DCC)			-	-	0.000	-	-	-	-	-	-	-	-	1.500	-	-	-	-	-	1.500
10) Mariner Skills Suite																				
10.1) Mariner Skills Suite Upgrade ^(†)	A		-	-	-	550,000.00	1	0.550	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 10) Mariner Skills Suite			-	-	0.000	-	-	0.550	-	-	-	-	-	-	-	-	-	-	-	-
11) RRL Training Technology ⁽²¹⁾																				
11.1) Reconfigurable CIC Trainer (RCT) Virtualized High Fidelity Trainer ^{(22)(†)}	A		-	-	-	-	-	-	-	-	-	810,000.00	1	0.810	-	-	-	810,000.00	1	0.810

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1								P-1 Line Item Number / Title: 8101 / Training and Education Equipment							Aggregated Items Title: Training Support Equipment				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
11.2) OS Accelerated Delivery - CIC Trainer (23)(t)	A		-	-	-	-	-	-	-	-	-	1,500K	1	1.500	-	-	-	1,500K	1	1.500
11.3) ET A School MRTS 3D Communications Lab Upgrades (24)(t)	A		-	-	-	-	-	-	-	-	-	690,000.00	1	0.690	-	-	-	690,000.00	1	0.690
11.4) Tactical Training Simulator (TTS) for MA A School / NTTC Lackland (25)(t)	A		-	-	-	-	-	-	-	-	-	2,000K	1	2.000	-	-	-	2,000K	1	2.000
Subtotal: 11) RRL Training Technology			-	-	0.000	-	-	-	-	-	-	-	-	5.000	-	-	-	-	-	5.000
Total			-	-	4.745	-	-	22.806	-	-	18.364	-	-	93.883	-	-	-	-	-	93.883

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:

- (1) Funding will support phased replacement and maintenance of hardware and software within the Navy Continuous Training Environment (NCTE) Enterprise to keep pace with mandated DISA and DoD cyber information certification and accreditation requirements.
- (2) Funding will procure network hardware and software to maintain network operability and cybersecurity from intrusion of hostile countries and entities in support of Ballistic Missile Defense (BMD) and Integrated Air Missile Defense (IAMD) mission area requirements.
- (3) Funding will support Ballistic Missile Defense (BMD) and Integrated Air and Missile Defense (IAMD) mission area Fleet sustainment training and mission rehearsal in theater by allowing ships to participate in COCOM/Navy Component Commander mandated BMD/IAMD exercises and current Fleet Readiness Training plan (FRTT) underway training events such as Composite Training Unit Exercise (COMPTUEX) and Joint Training Unit Exercise (JTUEX).
- (4) Funding procures additional Anti-Access Area Denial (A2AD) capability gateway portable embarkation kits to allow advanced Electronic Warfare training during Carrier Strike Group (CSG) Navy training events/exercise.
- (5) Funding provides Common Data Link (CDL) equipment required to support CDL architecture for development and certification of operational proficiency in Surface Warfare (SUW), Anti-Submarines Warfare (ASW) and Electronic Warfare (EW).
- (6) Funding procures a single Fleet Synthetic Training (FST) communications system enabling realistic tactical communications across all warfare areas, classification levels, and releasable domains.
- (7) Funding procures additional Cooperative Engagement Capability (CEC) Interim Training (CIT) System portable embarkation kits to support Carrier Strike Group (CSG) Fleet training requirements.
- (8) Funding supports phased system replacement and modernization of the Integrated Maritime Portable Acoustic Scoring & Simulation (IMPASS) system as required by the Life Cycle Management Plan (LCMP). Funding across Future Year Defense Program (FYDP) is required for repairs and system upgrades.
- (9) Funding for the Fleet Training Wholeness (FTW) initiative supports the continuing efforts to create a live, virtual, and constructive (LVC) training environment in support of combat readiness.
- (10) Funding supports the Phase II of network consolidation which procures and installs equipment to integrate designated East Coast training ranges and systems with the Navy Continuous Training Environment (NCTE) and upgrades designated East Coast training ranges to Digital Radio Management System (DRMS) 5.0. This is a new Cost Element beginning in FY20.
- (11) Funding supports consolidating the West Coast range networks into the Navy Enterprise Tactical Training Network (NETTN), establishment of an operational LVC Exercise Control (EXCON) facility for the CPF AOR, upgrades to voice communications at designated West Coast training ranges to DRMS 5.0, and integration of threat EW systems capable of simultaneously operating in live and synthetic environments through use of a common protocol and integrated into the NCTE. This is a new Cost Element beginning in FY20.
- (12) Funding supports conversion of existing live, virtual, and constructive (LVC) training and Tactical Combat Training System (TCTS) facilities in support of combat readiness. This is a new Cost Element beginning in FY20.
- (13) The funding in FY 2020 supports procurement of a fifth (5th) Training Support Vessel (TSV) that will provide the additional days at sea required for the Navy's training requirements. These include: Simulated Surface OPFOR, Electronic Warfare Projection, Training Target Operations, Jacksonville Shallow Water Training Range (JSWTR), and support requirements for day-and-night and all-weather operations supporting the Navy's Fleet Training Wholeness (FTW) initiative.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1	P-1 Line Item Number / Title: 8101 / Training and Education Equipment	Aggregated Items Title: Training Support Equipment
The fifth (5th) TSV will address training capacity gaps due to routine maintenance, required dry-dock periods, and decreasing availability of leased training vessels, as well as increased demand for TSV-provided services for sophisticated OPFOR characteristics, more complex target presentations, and an increasing requirement to meet LVC training objectives. ⁽¹⁴⁾ Funding procures an updated Command, Control, Communications, Computers, Cyber and Intelligence (C5I) suite to provide the Navy's Training Support Vessels (TSVs) with the requisite capability to perform Exercise Control (EXCON), Electromagnetic Maneuver Warfare (EMW), Opposing Forces (OPFOR), Command and Control (C2) duties during Fleet exercises. ⁽¹⁵⁾ Funds provide for procurement of shore-based fire arms training simulators. ⁽¹⁶⁾ Funds support RRL Requirements. Decrease from FY19 to FY20 is due to reduced quantity. ⁽¹⁷⁾ Funds support Electronic Classroom (ECR) Program. ⁽¹⁸⁾ Increase from FY19 to FY20 due to replacement of CISCO servers. ⁽¹⁹⁾ Decrease from FY19 to FY20 due to ECR VDI Implementation (Virtualization Software). ⁽²⁰⁾ Data Center Consolidation (DCC) funding: Funds realigned from BSO39 for Data Center and Application Optimization, provide sustainment of data center hardware, software, and licenses for established Component Enterprise Data Centers (CEDCs) and other approved hosting locations as part of the Department of Defense's Information Technology efficiency for the Manpower, Training, and Education (MPT&E) Data Center footprint. The funding enables the MPT&E to implement the Navy Data Center and Commercial Cloud Resourcing Memorandum of Agreement. Funds application hosting costs, continues with consolidation and application migration efforts, and ensure that systems are modernized to sustain security requirements of Navy information and data residing within applications and data centers. ⁽²¹⁾ The solution is conducive to Ready Relevant Learning (RRL) modularization of training. Developed curriculum and technology can be used in modular fashion to support Sailor reach back / refresh needs. Virtualizes / Simulates actual equipment or software capability - significantly reducing lifecycle support costs, and duplicative development costs. Implementation is expected to improve delivery of existing training due to a blended training solution eliminating bottlenecks and increased repetition of tasks. RRL Training Technology includes OPN training and education equipment for the Center for Surface Combat Systems (CSCS) 1)Reconfigurable CIC Trainer (RCT) Virtualized High Fidelity Trainer, 2)ET A School MRTS 3D Communications Lab Upgrades, and 3)OS Accelerated Delivery CIC Trainer; Center for Naval Aviation Technical Training (CNATT) 1)A-School Air Conditioning /Reconfigurable Training System; Center for Security Forces (CSF) 1)Tactical Training Simulator (TTS) for MA A School / NTTC Lackland; Center for Information Warfare Training (CIWT) 1)Reconfigurable Training System for AN/SLQ-32(V)6 Maintenance Trainer; and Surface Warfare Officers School 1)Virtual Welding Trainers. ⁽²²⁾ Fund \$810K OPN for accelerated RCT virtualization development to support Aegis ACB 16 training requirements. The requirement for RCT was driven by the inability of current shipboard trainers to represent advanced threats in realistic operating environments. The RCTs provide training capability for the following Aegis Weapon System Baselines in Advanced Capability Build (ACB) 12 with Common Source Library 18 software: Baseline 9A Cruiser Modernization Baseline 9C Destroyer Modernization Baseline 9D Destroyer New Construction ⁽²³⁾ OS Accelerated Delivery Media Fidelity Analysis report an approved by the TYCOM, fund development of a CIC simulation within a virtual world that provides realistic software screens and immersive scenarios for OS rating watch stations (i.e., Navigation Chart Plotter, MOBOARD Plotter, R/T Talker, AN/SPA-25G Radar Repeater Operator, SDT, and Lookout). Example scenarios include: Harbor Navigation Package, Loss of Steering Drills, Anchoring, and Plotting PIM Avoidance Courses, Station Changes, and Wind Problems. Screen Kilos, Four-Whiskey (4W) Grids, and Underway Replenishment (UNREP). Man Overboard, Low Visibility, and Flashing Light ⁽²⁴⁾ OPN to upgrade existing DDG Radio Room Multi-purpose Reconfigurable Training System 3D (MRTS 3D). Each workstation serves as a platform for operations, maintenance, and troubleshooting/repair procedures and replicates the following radios: HF system/DMR; VHF system/DMR; UHF LOS system/DMR; UHF SATCOM system/DMR; EHF System/NMT; and SHF system/NMT ⁽²⁵⁾ OPN to install one (1) Tactical Training Simulator (TTS) for MA A-School at NTTC Lackland. Resourcing required to correct security force and Active Shooter training deficiencies identified during USFF Installation Security Assessments; Washington Navy Yard investigation; VCNO taskers; and meet MA Core and Active Shooter training requirements as documented in USFF ltr +Ser N1/169 dtd 07 AUG 2014 (endorsed by N95 03 OCT 2014); and DoDI 5525.15 (Law enforcement (LE) Standards and Training in the DoD). The TTS is required to deliver Active Shooter response training for up to 2000 MA students annually. This is a top issue on the USFF and CNO Antiterrorism priority list.		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1			P-1 Line Item Number / Title: 8101 / Training and Education Equipment						Aggregated Items: Training 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) TRAINING SUPPORT EQUIPMENT												
1.1) LIFE CYCLE MANAGEMENT (NCTE) ⁽¹⁾		2018	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2017	Oct 2017	1	3,964K	N	Jan 2018	Oct 2016
1.1) LIFE CYCLE MANAGEMENT (NCTE) ⁽¹⁾		2019	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2018	Oct 2018	1	2,458K	N	Jan 2019	Oct 2017
1.1) LIFE CYCLE MANAGEMENT (NCTE) ⁽¹⁾		2020	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2019	Oct 2019	1	2,381K	N	Jan 2020	Oct 2018
1.2) BALLISTIC MISSILE DEFENSE (BMD) ⁽²⁾		2018	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2017	Oct 2017	1	2,113K	N	Jan 2018	Oct 2016
1.2) BALLISTIC MISSILE DEFENSE (BMD) ⁽²⁾		2019	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2018	Oct 2018	1	2,152K	N	Jan 2019	Oct 2017
1.2) BALLISTIC MISSILE DEFENSE (BMD) ⁽²⁾		2020	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2019	Oct 2019	1	2,193K	N	Jan 2020	Oct 2018
1.3) BMD FST AT SEA ⁽³⁾		2018	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2017	Oct 2017	1	218,000.00	N	Jan 2018	Oct 2016
1.3) BMD FST AT SEA ⁽³⁾		2019	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2018	Oct 2018	1	168,000.00	N	Jan 2019	Oct 2017
1.3) BMD FST AT SEA ⁽³⁾		2020	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2019	Oct 2019	1	171,000.00	N	Jan 2020	Oct 2018
1.4) ANTI-ACCESS AREA DENIAL (A2AD) ⁽⁴⁾		2018	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2017	Oct 2017	2	227,000.00	N	Jan 2018	Oct 2016
1.4) ANTI-ACCESS AREA DENIAL (A2AD) ⁽⁴⁾		2019	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2018	Oct 2018	4	226,500.00	N	Jan 2019	Oct 2017
1.4) ANTI-ACCESS AREA DENIAL (A2AD) ⁽⁴⁾		2020	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2019	Oct 2019	8	253,500.00	N	Jan 2020	Oct 2018
1.5) COMMON DATA LINK (CDL) ⁽⁵⁾		2018	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2017	Oct 2017	1	300,000.00	N	Jan 2018	Oct 2016
1.6) DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS ⁽⁶⁾		2018	Alion Science & Technology / McLean, VA	C / FFP	DTIC	Oct 2017	Oct 2017	1	1,244K	N	Jan 2018	Oct 2016
1.6) DIGITAL RADIO MANAGEMENT SYSTEM (DRMS) WHOLENESS ⁽⁶⁾		2019	Alion Science & Technology / McLean, VA	C / FFP	DTIC	Oct 2018	Oct 2018	1	1,100K	N	Jan 2019	Oct 2017
1.7) NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA) ⁽⁷⁾		2018	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2017	Oct 2017	1	551,000.00	N	Jan 2018	Oct 2016

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8101 / Training and Education Equipment					Aggregated Items: Training 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
1.7) NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA) ⁽⁷⁾		2019	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2018	Oct 2018	1	566,000.00	N	Jan 2019	Oct 2017
1.7) NAVAL INTEGRATED FIRE CONTROL - COUNTER AIR (NIFC-CA) ⁽⁷⁾		2020	Alion Science and Technology / McLean, VA	C / FFP	DTIC	Oct 2019	Oct 2019	1	577,000.00	N	Jan 2020	Oct 2018
1.8) IMPASS SCORING SYSTEM ⁽⁸⁾		2018	NAWCWD Pt. Mugu / NAWCWD Pt. Mugu, CA	C / FFP	PT MUGU	Oct 2017	Oct 2017	1	2,200K	N	Jan 2018	Oct 2016
1.8) IMPASS SCORING SYSTEM ⁽⁸⁾		2020	NAWCWD Pt. Mugu / NAWCWD Pt. Mugu, CA	C / FFP	PT MUGU	Oct 2019	Oct 2019	1	500,000.00	N	Jan 2020	Oct 2017
1.9) FLEET TRAINING WHOLENESS (FTW) ^{(9)(†)}		2019	Alion Science & Technology / McLean, VA	C / FFP	DTIC	Oct 2018	Oct 2018	1	5,400K	N	Jan 2019	Oct 2017
1.9) FLEET TRAINING WHOLENESS (FTW) ^{(9)(†)}		2020	Alion Science & Technology / McLean, VA	C / FFP	DTIC	Oct 2019	Oct 2019	1	11,600K	N	Jan 2020	Oct 2018
1.10) EAST COAST NETWORK CONSOLIDATION ^{(10)(†)}		2020	Alion Science & Technology / McLean, VA	C / FFP	DTIC	Oct 2019	Oct 2019	1	18,600K	N	Jan 2020	Oct 2018
1.11) WEST COAST NETWORK CONSOLIDATION ^{(11)(†)}		2020	Alion Science & Technology / McLean, VA	C / FFP	DTIC	Oct 2019	Oct 2019	1	10,900K	N	Jan 2020	Oct 2018
1.12) AVIATION TRAINING & MISSION REHERSAL SECURITY ^{(12)(†)}		2020	Alion Science & Technology / McLean, VA	C / FFP	DTIC	Oct 2019	Oct 2019	1	10,700K	N	Jan 2020	Oct 2018
1.13) TRAINING SUPPORT VESSEL (TSV) PROCUREMENT & SUSTAINMENT ⁽¹³⁾		2020	FLC, Norfolk / Norfolk, VA	C / FFP	USFF	Oct 2019	Oct 2019	1	12,400K	N	Jan 2020	Aug 2019
1.14) TRAINING SUPPORT VESSEL (TSV) COMMUNICATIONS NETWORK SUITE ⁽¹⁴⁾		2020	TBD / TBD	C / TBD	** NO PCO **	Oct 2019	Oct 2019	1	2,700K	N	Jan 2020	Jun 2019
3) YPYTD - TRAINING DELIVERY SERVICES (TDS)												
3.1) ECR VDI POOL OF DESKTOPS EQUIP. UPGRADE (S2025) ⁽¹⁶⁾		2018	DELL/EMC/CDW-G / c/fpp	C / FFP	NETPDTC	Aug 2018	Sep 2018	7	146,000.00	N	Oct 2017	
3.1) ECR VDI POOL OF DESKTOPS EQUIP. UPGRADE (S2025) ⁽¹⁶⁾		2019	DELL/EMC/CDW-G / c/fpp	C / FFP	NEPTDTC	Jun 2019	Jul 2019	20	172,000.00	N	Oct 2018	
3.1) ECR VDI POOL OF DESKTOPS EQUIP. UPGRADE (S2025) ⁽¹⁶⁾		2020	DELL/EMC/CDW-G / c/fpp	C / FFP	NETPDTC	Jun 2020	Jul 2020	7	172,000.00	N	Oct 2019	

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8101 / Training and Education Equipment					Aggregated Items: Training 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
4) Electronic Classroom (ECR) Program												
4.2) ECR Student Workstation Tech Refresh ⁽¹⁸⁾		2019	DELL/EMC/CDW-G / c/fpp	C / FFP	NETPDTC	Oct 2018	Oct 2018	1	1,000.00	N	Sep 2018	
4.2) ECR Student Workstation Tech Refresh ⁽¹⁸⁾		2020	DELL/EMC/CDW-G / c/fpp	C / FFP	NETPDTC	Oct 2019	Oct 2019	528	1,000.00	N	Sep 2019	
4.4) ECR Virtual Desktop Infrastructure (VDI) Pool of Desktops (POD) Equipment		2018	DELL/EMC/CDW-G / c/fpp	C / FFP	NEPTDTC	Oct 2017	Oct 2017	5	138,000.00	N	Oct 2017	Oct 2017
4.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE) ⁽¹⁹⁾		2019	VMWARE / Palo Alto, CA	C / FFP	NEPTDTC	Oct 2018	Oct 2018	2	1,000K	N	Oct 2018	
4.5) ECR VDI IMPLEMENTATION (VIRTUALIZATION SOFTWARE) ⁽¹⁹⁾		2020	VMWARE / Palo Alto, CA	C / FFP	NEPTDTC	Oct 2019	Oct 2019	610	2,000.00	N	Oct 2019	
4.6) ECR VDI/VIRTUAL SERVER SERVICES IMPLEMENTATION		2018	APC / Kingston, RI	C / FFP	NEPTDTC	Oct 2017	Oct 2017	375	6,448.00	N	Oct 2017	
4.7) Microsoft Office 2016 Software for ECR student seats		2018	Microsoft ⁽²⁶⁾ / Redmond, WA	C / FFP	** NO PCO **	Dec 2017	Dec 2017	2,497	483.62	N	Dec 2017	
4.7) Microsoft Office 2016 Software for ECR student seats		2019	Microsoft ⁽²⁶⁾ / Redmond, WA	C / FFP	** NO PCO **	Oct 2018	Oct 2018	1	1,000.00	N	Sep 2018	
5) Multi-purpose Reconfigurable Training System (MRTS)												
5.1) Multi-purpose Reconfigurable Training System (MRTS)		2018	NAWCTSD / Orlando	C / FFP	Orlando	Aug 2018	Aug 2018	1	5,400K	N	Aug 2018	Aug 2018
7) MAA ACTIVE SHOOTER TRAINING												
7.1) MAA Active Shooter Training		2020	TBD / TBD	C / TBD	** NO PCO **	Feb 2020	Mar 2020	1	2,000K	N	May 2020	
8) Enlisted Accession Mission												
8.1) Enlisted Accession Increases for STS Rating		2020	Unknown / Unknown	C / TBD	NUWC Newport, RI	Feb 2020	Mar 2020	1	7,500K	N	Sep 2020	Jan 2020
9) Data Center Consolidation (DCC)												
9.1) Data Center Consolidation		2020	Unknown / Unknown	C / TBD	** NO PCO **	Jul 2020	Jul 2020	1	1,500K	N	Sep 2020	
10) Mariner Skills Suite												
10.1) Mariner Skills Suite Upgrade		2018	NAWCTSD / Orlando	C / FFP	Orlando	Sep 2018	Oct 2018	1	550,000.00	N	Aug 2019	Aug 2018
11) RRL Training Technology												
11.1) Reconfigurable CIC Trainer (RCT) Virtualized High Fidelity Trainer ⁽²²⁾		2020	TBD / TBD	C / TBD	TBD	Nov 2019	Dec 2019	1	810,000.00	N	Sep 2022	Oct 2019

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8101 / Training and Education Equipment					Aggregated Items: Training 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
11.2) OS Accelerated Delivery - CIC Trainer ⁽²³⁾		2020	TBD / TBD	C / TBD	TBD	Nov 2019	Dec 2019	1	1,500K	N	Sep 2022	Oct 2019
11.3) ET A School MRTS 3D Communications Lab Upgrades ⁽²⁴⁾		2020	TBD / TBD	C / TBD	TBD	Nov 2019	Dec 2019	1	690,000.00	N	Sep 2022	Oct 2019
11.4) Tactical Training Simulator (TTS) for MA A School / NTTC Lackland ⁽²⁵⁾		2020	TBD / TBD	C / TBD	TBD	Nov 2019	Dec 2019	1	2,000K	N	Sep 2022	Oct 2019

^(†) indicates the presence of a P-21

Footnotes:

⁽²⁶⁾ 2808 Licenses

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Exhibit P-21, Production Schedule: PB 2020 Navy																							Date: March 2019											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1										P-1 Line Item Number / Title: 8101 / Training and Education Equipment													Aggregated Items: Training Support Equipment											
Items <i>(Units in Each)</i>							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) TRAINING SUPPORT EQUIPMENT																																		
1.9) FLEET TRAINING WHOLENESS (FTW) ⁽⁹⁾																																		
	3	2019	NAVY		1	0	1														A1												0	
	3	2020	NAVY		1	0	1																									1		
1.10) EAST COAST NETWORK CONSOLIDATION ⁽¹⁰⁾																																		
	4	2020	NAVY		1	0	1																									1		
1.11) WEST COAST NETWORK CONSOLIDATION ⁽¹¹⁾																																		
	5	2020	NAVY		1	0	1																									1		
1.12) AVIATION TRAINING & MISSION REHERSAL SECURITY ⁽¹²⁾																																		
	6	2020	NAVY		1	0	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	1		

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Exhibit P-21, Production Schedule: PB 2020 Navy																							Date: March 2019										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1										P-1 Line Item Number / Title: 8101 / Training and Education Equipment													Aggregated Items: Training Support Equipment										
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) TRAINING SUPPORT EQUIPMENT																																	
1.9) FLEET TRAINING WHOLENESS (FTW) ⁽⁹⁾																																	
	3	2019	NAVY		1	0																										0	
	3	2020	NAVY		1	0	A1																										0
1.10) EAST COAST NETWORK CONSOLIDATION ⁽¹⁰⁾																																	
	4	2020	NAVY		1	0	A1																										0
1.11) WEST COAST NETWORK CONSOLIDATION ⁽¹¹⁾																																	
	5	2020	NAVY		1	0	A1																										0
1.12) AVIATION TRAINING & MISSION REHERSAL SECURITY ⁽¹²⁾																																	
	6	2020	NAVY		1	0	A1	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	0	

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Exhibit P-21, Production Schedule: PB 2020 Navy								Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8101 / Training and Education Equipment				Aggregated Items: Training Support Equipment			

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2020	1-8-5 For 2020	MAX For 2020	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	Alion Science & Technology - McLean, VA			TBD	0	0	0	0	0	0	0	0
2	Alion Science & Technology - McLean, VA			TBD	0	0	0	0	0	0	0	0
3	Alion Science & Technology - McLean, VA			TBD	0	0	0	0	0	0	0	0
4	Alion Science & Technology - McLean, VA			TBD	0	0	0	0	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).

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1								P-1 Line Item Number / Title: 8101 / Training and Education Equipment							Aggregated Items Title: Education Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) U.S. Naval Academy (USNA)																				
1.1) M. LAN Room Video Surveillance (27)(†)	A		-	-	-	-	-	-	-	-	-	280,000.00	1	0.280	-	-	-	280,000.00	1	0.280
1.2) R. Backup System Replacement (28)	A		374,000.00	1	0.374	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) B. Advanced Computing Cluster Replacement (29)(†)	A		-	-	-	980,000.00	1	0.980	450,000.00	1	0.450	-	-	-	-	-	-	-	-	-
1.4) Bridge Simulator Upgrade	A		557,000.00	1	0.557	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) A. Articulated Hub & Rotor Blade Assembly(†)	A		-	-	-	657,000.00	1	0.657	-	-	-	-	-	-	-	-	-	-	-	-
1.6) L. Chromatography Replacement (30)(†)	A		-	-	-	-	-	-	250,000.00	1	0.250	-	-	-	-	-	-	-	-	-
1.7) I. Pelletron Accelerator Replacement (31)(†)	A		-	-	-	-	-	-	467,000.00	1	0.467	-	-	-	-	-	-	-	-	-
1.8) J. Electric Dynamometer (32)(†)	A		-	-	-	-	-	-	265,000.00	1	0.265	-	-	-	-	-	-	-	-	-
1.10) H. Voice Switch S/W Upgrades (IP Telephony) (33)(†)	A		-	-	-	-	-	-	438,000.00	1	0.438	-	-	-	-	-	-	-	-	-
1.11) N. Mission System Host Platform (34)(†)	A		-	-	-	-	-	-	-	-	-	744,000.00	1	0.744	-	-	-	744,000.00	1	0.744
1.13) K. Auditorium Sound System Replacement (35)(†)	A		-	-	-	-	-	-	449,000.00	1	0.449	-	-	-	-	-	-	-	-	-
1.14) O. Microscale Thermal Transport Replacement (36)(†)	A		-	-	-	-	-	-	-	-	-	313,000.00	1	0.313	-	-	-	313,000.00	1	0.313
1.15) P. Enterprise Network Upgrades (37)(†)	A		300,000.00	1	0.300	-	-	-	-	-	-	516,000.00	1	0.516	-	-	-	516,000.00	1	0.516
1.19) E. Universal Wireless Telecommunications System: DAS Cellular(†)	A		371,000.00	1	0.371	256,000.00	1	0.256	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1							P-1 Line Item Number / Title: 8101 / Training and Education Equipment								Aggregated Items Title: Education Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
1.22) C. MicroTime Spectroscopy System ^(†)	A		-	-	-	357,000.00	1	0.357	-	-	-	-	-	-	-	-	-	-	-	-
1.23) D. Raman Spectrometer ^(†)	A		-	-	-	278,000.00	1	0.278	-	-	-	-	-	-	-	-	-	-	-	-
1.24) F. Frequency-Domain Thermo-Reflectance System ^(†)	A		-	-	-	411,000.00	1	0.411	-	-	-	-	-	-	-	-	-	-	-	-
1.25) G. Asset Management System (AMS) ^(†)	A		-	-	-	279,000.00	1	0.279	-	-	-	-	-	-	-	-	-	-	-	-
1.26) Q. Anechoic Chamber System ⁽³⁹⁾ (†)	A		-	-	-	-	-	-	-	-	-	400,000.00	1	0.400	-	-	-	400,000.00	1	0.400
Subtotal: 1) U.S. Naval Academy (USNA)			-	-	1.602	-	-	3.218	-	-	2.319	-	-	2.253	-	-	-	-	-	2.253
2) Sustain Hopper Hall Technology																				
2.1) HOPPER - Underwater motion capture system for Hopper Hall SURF ⁽³⁹⁾ (†)	A		-	-	-	-	-	-	-	-	-	400,000.00	1	0.400	-	-	-	400,000.00	1	0.400
2.2) HOPPER - Above water motion capture system for Hopper Hall SURF ⁽⁴⁰⁾ (†)	A		-	-	-	-	-	-	-	-	-	400,000.00	1	0.400	-	-	-	400,000.00	1	0.400
2.3) HOPPER - Above water motion capture system for Hopper Hall AerTeMis ⁽⁴¹⁾ (†)	A		-	-	-	-	-	-	-	-	-	350,000.00	1	0.350	-	-	-	350,000.00	1	0.350
2.4) HOPPER - ECE Anechoic Chamber Lab / System ⁽⁴²⁾ (†)	A		-	-	-	-	-	-	-	-	-	350,000.00	1	0.350	-	-	-	350,000.00	1	0.350
Subtotal: 2) Sustain Hopper Hall Technology			-	-	0.000	-	-	-	-	-	-	-	-	1.500	-	-	-	-	-	1.500
Total			-	-	1.602	-	-	3.218	-	-	2.319	-	-	3.753	-	-	-	-	-	3.753
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:																				
⁽²⁷⁾ LAN Room Video Surveillance																				
⁽²⁸⁾ Backup System Replacement																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1	P-1 Line Item Number / Title: 8101 / Training and Education Equipment	Aggregated Items Title: Education Support Equipment
(29) Advanced Computing Cluster Replacement (30) Chromatography Replacement (31) Pelletron Accelerator Replacement (32) Electric Dynamometer (33) Voice Mail System Replacement (34) Mission Systems Host Platform Replacement (35) Auditorium Sound System Replacement (36) Micro-scale Thermal Transport Replacement (37) Enterprise Network Upgrades (38) Anechoic Chamber System (39) HOPPER - Underwater motion capture system for Hopper Hall SURF (40) HOPPER - Above water motion capture system for Hopper Hall SURF (41) HOPPER - Above water motion capture system for Hopper Hall AerTeMis (42) HOPPER - ECE Anechoic Chamber Lab / System		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1				P-1 Line Item Number / Title: 8101 / Training and Education Equipment					Aggregated Items: Education 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) U.S. Naval Academy (USNA)												
1.1) M. LAN Room Video Surveillance ⁽²⁷⁾		2020 ⁽⁴³⁾	UNKNOWN / UNKNOWN	C / TBD	FLC, PHILADELPHIA	Mar 2020	Apr 2020	1	280,000.00	N	Jun 2020	Nov 2019
1.3) B. Advanced Computing Cluster Replacement ⁽²⁹⁾		2018	Penguin Computing / c/fp	C / FP	FLC, PHILADELPHIA	Sep 2018	Oct 2018	1	980,000.00	N	Apr 2018	May 2018
1.3) B. Advanced Computing Cluster Replacement ⁽²⁹⁾		2019	Penguin Computing / c/fp	C / FP	FLC, PHILADELPHIA	Dec 2019	Jan 2020	1	450,000.00	N	Aug 2018	Dec 2018
1.5) A. Articulated Hub & Rotor Blade Assembly		2018	Calspan Systems Corporation / c/fp	C / FP	FLC, PHILADELPHIA	Aug 2018	Sep 2018	1	657,000.00	N	Dec 2017	Mar 2018
1.6) L. Chromatography Replacement ⁽³⁰⁾		2019	TBD / TBD	C / FP	FLC, PHILADELPHIA	Nov 2018	Feb 2019	1	250,000.00	N	Mar 2019	Oct 2018
1.7) I. Pelletron Accelerator Replacement ⁽³¹⁾		2019	TBD / TBD	C / FP	FLC, PHILADELPHIA	Mar 2019	Apr 2019	1	467,000.00	N	Jun 2019	Jan 2019
1.8) J. Electric Dynamometer ⁽³²⁾		2019	TBD / TBD	C / FP	FLC, PHILADELPHIA	Jun 2019	Sep 2019	1	265,000.00	N	Sep 2019	Mar 2019
1.10) H. Voice Switch S/W Upgrades (IP Telephony) ⁽³³⁾		2019	AVAYA / NORFOLK, VA	C / FP	FLC, PHILADELPHIA	Mar 2019	Apr 2019	1	438,000.00	N	Jun 2019	Jan 2019
1.11) N. Mission System Host Platform ⁽³⁴⁾		2020 ⁽⁴⁴⁾	TBD / TBD	C / TBD	FLC, PHILADELPHIA	Dec 2019	Jan 2020	1	744,000.00	N	Apr 2020	Oct 2019
1.13) K. Auditorium Sound System Replacement ⁽³⁵⁾		2019	TBD / TBD	C / FP	FLC, PHILADELPHIA	Apr 2019	May 2019	1	449,000.00	N	Apr 2019	Jan 2019
1.14) O. Microscale Thermal Transport Replacement ⁽³⁶⁾		2020 ⁽⁴⁵⁾	TBD / TBD	C / TBD	FLC, PHILADELPHIA	Mar 2020	Mar 2020	1	313,000.00	N	Jun 2020	Dec 2019
1.15) P. Enterprise Network Upgrades ⁽³⁷⁾		2020 ⁽⁴⁶⁾	Unknown / Unknown	C / TBD	FLC, PHILADELPHIA	Nov 2019	Dec 2019	1	516,000.00	N	Feb 2020	Oct 2019
1.19) E. Universal Wireless Telecommunications System: DAS Cellular		2018 ⁽⁴⁷⁾	Multiple Sources(Verizon, Sprint,ATT) / c/fp	C / BPA	FLC, PHILADELPHIA	Apr 2018	May 2018	1	256,000.00	N	Aug 2017	Nov 2017
1.22) C. MicroTime Spectroscopy System		2018	Picoquant Photonics North America, Inc. / Picoquant Photonics North America, Inc.	C / FP	FLC, PHILADELPHIA	May 2018	Jun 2018	1	357,000.00	N	Feb 2018	Mar 2018
1.23) D. Raman Spectrometer		2018	Renishaw Incorporated / Renishaw Incorporated	C / FP	FLC, PHILADELPHIA	Jul 2018	Aug 2018	1	278,000.00	N	Aug 2018	May 2018
1.24) F. Frequency-Domain Thermo-Reflectance System		2018	Multiple Sources / Multiple sources	C / FP	FLC, PHILADELPHIA	May 2018	Jun 2018	1	411,000.00	N	Aug 2018	Dec 2017
1.25) G. Asset Management System (AMS)		2018	UNKNOWN / UNKNOWN	C / TBD	FLC, PHILADELPHIA	Nov 2018	Dec 2018	1	279,000.00	N	Jan 2019	Sep 2018

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 1			P-1 Line Item Number / Title: 8101 / Training and Education Equipment					Aggregated Items: Education 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
1.26) Q. Anechoic Chamber System ⁽³⁸⁾		2020 ⁽⁴⁸⁾	UNKNOWN / UNKNOWN	C / TBD	FLC, PHILADELPHIA	Nov 2019	Dec 2019	1	400,000.00	N	Feb 2020	Oct 2019
2) Sustain Hopper Hall Technology												
2.1) HOPPER - Underwater motion capture system for Hopper Hall SURF ⁽³⁹⁾		2020	Unknown / Unknown	C / TBD	FLC, PHILADELPHIA	Sep 2020	Oct 2020	1	400,000.00	N	Jan 2021	
2.2) HOPPER - Above water motion capture system for Hopper Hall SURF ⁽⁴⁰⁾		2020	Unknown / Unknown	C / TBD	FLC, PHILADELPHIA	Sep 2020	Oct 2020	1	400,000.00	N	Jan 2021	
2.3) HOPPER - Above water motion capture system for Hopper Hall AerTeMis ⁽⁴¹⁾		2020	Unknown / Unknown	C / TBD	FLC, PHILADELPHIA	Sep 2020	Oct 2020	1	350,000.00	N	Jan 2021	
2.4) HOPPER - ECE Anechoic Chamber Lab / System ⁽⁴²⁾		2020	Unknown @Unknown / Unknown	C / TBD	FLC	Sep 2020	Oct 2020	1	350,000.00	N	Jan 2021	

Footnotes:

⁽⁴³⁾ New start in FY2020, \$280K, Provides current technology capability for management and protection of the Academy's numerous distributed local area network equipment spaces. The system will provide integrated card reader systems for controlled access and cameras for real-time and recorded playback of critical infrastructure locations to ensure a safe and secure enterprise computing environment.

⁽⁴⁴⁾ New start in FY 2020, \$744K, provides for life-cycle upgrade and replacement of IT hardware hosting information system applications meeting specific USNA requirements in academic, administrative, athletic, and professional areas.

⁽⁴⁵⁾ Funding provides for replacement of physical apparatus for propulsion laboratory study of nano-technology based heat transfer and thermal sciences acquired FY 2010. This capability permits measurement and demonstration of electromagnetic (thermal) processes at the nano-technology level critical to naval propulsion technology.

⁽⁴⁶⁾ Funding provides for: Permits modular, phased upgrades, replacement, and modernization of the Academy's enterprise computing network to maintain currency with changing industry standards and user demands. Provides for replacement of aging switches and routers used to direct data communication traffic across fiber optic cables to various places throughout the enterprise.

⁽⁴⁷⁾ Contractor and Location: Multiple Vendors (Verizon, Sprint, ATT)

⁽⁴⁸⁾ Funding provides for Antenna testing chamber to replace current system in Ri-061 which is custom built into the building and cannot be relocated. Used by Midshipmen in pursuit of majors, electives and research.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8106 / Command 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	165.391	78.406	61.577	66.102	2.800	68.902	42.290	41.226	42.479	40.717	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	165.391	78.406	61.577	66.102	2.800	68.902	42.290	41.226	42.479	40.717	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	165.391	78.406	61.577	66.102	2.800	68.902	42.290	41.226	42.479	40.717	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>)	-	0.022	0.006	0.007	-	0.007	0.007	0.007	0.008	0.006	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The FY 2020 funding request was reduced by \$6.661 million to account for the availability of prior year execution balances. This line provides for new and systematic replacement of investment items required in support of the operational mission of the Navy's claimancy. Procurement of Command Support Equipment throughout the Navy involves the purchase, replacement and upgrade of various pieces of equipment such as Cable Replacements and the purchase, repair, and upgrade of IT Infrastructure and Security Systems. This equipment is an integral part of the programs to improve the fleet and shore establishment by maintaining or expanding existing capabilities or replacing ineffective units. [P40A / NCIS Data Modernization & Analytical Tools]: The NCIS mission is to support the day-to-day operations to Prevent Terrorism, Protection of National Secrets, Reduce Crime across the Department of Navy and Marine Corps, and comply with DON Mandates. Without the IT Program and Technical Support, these systems will impact NCIS ability to fulfill its mission as designated by SECNAVINST 5430.107. This will Negatively impact mission commanders in their warfighting capacity. Additionally, these IT services have a direct impact on security and monitoring of IT systems as defined in DOD 8500.02 and would violate the requirement and raise the risk of system security vulnerabilities. [P40A / OCHR - Human Resource IT system]: Procurement funding ensures that production and modernization of Human Resources Civilian Personnel (HRCP) in support of DON HR Enterprise Systems remain in accordance with DOD and DON modernization efforts are met, technical refresh of past-shelf-life infrastructure supporting HRCP, and planned HRLINK licensing expansion in compliance to ESL mandates to DON Functional Communities. [P40A / FIP]: Funding will be used for procurement of additional modules/ capabilities to improve Navy ERP user experience and actions to correct deficiencies found in the Federal Information System Controls Audit Manual (FISCAM) audit. FISCAM resourcing requirements are growing as an increasing number of deficiencies are identified due to non-compliance with financial audit standards resulting from inadequate internal controls among DON business processes and IT systems. [P40A / Electronic Military Personnel Record System (EMPRS)]: Electronic Military Personnel Record System (EMPRS): Electronic Military Personnel Record System (EMPRS) is an electronic document/image based system that serves as the repository for all Department of Navy (DoN) official military personnel record images (over 170 million images). It supports retired, active, and reserve military personnel in the functional areas of selection board operations, casualty management, mobilization, veteran benefits (providing												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8106 / Command 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		
automated Sailor information to the Veterans Administration) and other military personnel management functions. EMPRS annually supports over 150 statutory and administrative selection boards, providing over 12 million service record images, covering promotions, assignments, and retention. References: Title 10 & 44, U. S. Code and Title 36, CFR (Record Management Requirements), DoD Directive 5015.2 OPN funding provided allows us to use an acquisition strategy that is both cost efficient and effective. This strategy sustains the EMPRS program throughout the FYDP, providing technology refreshment (TR) throughout the years (evolutionary) as opposed to a TR every 8 years. This provides vital upgrades in a more timely manner. An 8 year refresh cycle of IT would require reliance on old system and software, by IT standards, that frequently result in compatibility issues as new systems and software are fielded, thus driving up sustainment costs. Evolutionary technical refreshment is a more cost effective strategy. [P40A / Peripherals]: Peripherals represent auxiliary and infrastructure components that make up and are associated with the EMPRS system, which supports the Navy's selection board processes for all Officer and senior enlisted personnel (E7 & above). EMPRS is the major information system which is mutually supported by infrastructure to conduct 160 selection boards on an annual basis. Peripherals include items such as removable walls within boardrooms that function as display screen for military personnel record display, keyboards, printers, monitors, mice for workstations in the boardrooms, etc. [P40A / Data Center Consolidation (DCC)]: Data Center Consolidation (DCC) Data Center and Application Optimization provides sustainment of data center hardware, software, and licenses for established Component Enterprise Data Centers (CEDCs) and other approved hosting locations as part of the Department of Defense's Information Technology efficiency for the Manpower, Training, and Education (MPT&E) Data Center footprint. The Navy Data Center and Commercial Cloud Resourcing Memorandum of Agreement will be implemented by MPT&E along with application hosting costs, continues with consolidation and application migration efforts, and ensure that systems are modernized to sustain security requirements of Navy information and data residing within applications and data centers. The increase is due to a new start in FY2020. [P40A / Electronic Security System (ESS) Replacement/Upgrade]: Electronic Security System (ESS) Replacement/Upgrade An integrated, open-architecture, non-proprietary digital replacement and/or upgraded corrections/detention-grade electronic security management system. Purchases to include but not limited to: New infrastructure; Multiple CCTV camera monitoring; On-line recording systems; Redundant server/workstation/client fail-over capabilities; VOIP Intercommunication & Paging Audio System; CCTV state-of-the-art, solid state, IP (Internet Protocol) cameras; NVR Recording System Network Video Recorders (NVRs); Integration of CCTV systems to other Brig sub-systems; Access Control System; Proximity-type cards and contactless readers; Integration of the access control system and other facility security control subsystems; Radio Frequency Identification Tracking System; Personal Duress and Alarm System; Personal Digital/ Detention Assistant for staff with 802.11 Wi-Fi connectivity; and other requirements necessary to replace/upgrade to a fully functional and integrated Electronic Security System. [P40A / System - Crisis Announcement]: The U.S. Naval War College (NWC) requires a distributed control crisis mass emergency real time assisted voice evacuation and mass communication system within the NWC complex to comply with published safety standards. The required installation will enable NWC security and leadership personnel to operate a supervised and distributed, integrated compound wide system of emergency response. This system will provide an announcement system for the College to mitigate additional emergency situations such as active shooter, bomb threats and other threat scenarios. The required system would assist in the protection of life and property by indicating the existence of an emergency situation and providing "real time" instructions to a large number of people whether inside a building or spread out the NWC complex and surrounding area on Newport Naval Station. As a host of International Senior Officers and numerous U.S. dignitaries, both military and civilian, the Naval War College lacks to capability coordinate the responses of the 1,500 personnel on campus. [P40A / MPTE Core Transformation]: Faced with complex challenges to efficiently and effectively attract, develop, and retain Navy Sailors, the Department has prepared an MPT&E Transformation plan to combat threats to mission readiness. The strategic vision and desired end-state of the endeavor is a holistic modernization of models, processes, and information technology, to dramatically improve the quality of MPT&E service delivery. There are too many Legacy IT Systems, an overly complex data management system, and limited Sailor-Self-Service options with no mobile access. The IT Transformation will focus on two primary strategies: maximizing the utilization of commercial-off-the-shelf (COTS) technologies and the implementation of cloud based technologies. Together these two approaches will improve both the service to Sailors and to Fleet readiness, reduce our technology footprint and increase accountability and audit readiness. In accordance with the MPT&E transformation plan, legacy systems will be replaced by modern and robust solutions that better support Navy's ability to execute its mission and efficiently allocate its resources. The Department will provide the access, schematics, and other pertinent information regarding the existing architecture, artifacts, and visualizations to enable this transformation. Migrating the data housed within these disparate systems to centralized, COTS-configured applications will reduce costs, eliminate redundancy, and streamline processes in accordance with the goals set forth in the transformational effort strategy. Four projects are the cornerstones of the Navy / N1 Transformation strategy:		

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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		
- The Navy Personnel and Pay System (NP2) includes Navy Personnel and Pay Standard modernization and the collapse of Legacy Manpower System functionality. - Single Point of Entry (SPOE) for Sailor self-service is composed of My Navy Portal (MNP), Identity and Access Management (IdAM), a Customer Relations Management (CRM) solution, and centralized and standardized customer service center (The MyNavy Career Center(MNCC)). - Learning Stack (LS) improves the accessibility, sophistication, and collaborative nature of educational outreach. - Authoritative Data Environment (ADE) will enable the collapse of 9 legacy data warehouses into a single, authoritative source of data truth for Sailors and Navy decision makers. Additionally, ADE will enable modern data analytics and business intelligence capabilities. All of the technology solutions will leverage hyper scale cloud based services in order to provide secure, accessible and cost effective business IT. [P40A / MPTE Core Transformation PeopleSoft Licenses]: PeopleSoft 9.2 licenses in support of NP2 consolidation (MPTE CORE Transformation) [P40A / Insider Threat - SPAWAR]: Insider Threat (BSO 39) - Funding transferred to LI 3415 in FY20 and out. [P40A / Converged ERP]: Converged Enterprise Resource Planning: The Navy Enterprise Resource Planning (ERP) solution is an integrated business management system that modernizes and standardizes Navy's business processes. Navy ERP utilizes best commercial practices to provide real-time information exchange, unprecedented financial and asset visibility, and improved reporting and decision-making capabilities across key acquisition, financial, and logistics operations. Navy ERP is the tool chosen to meet Congressional mandates to establish and maintain federal financially compliant management systems, federal accounting standards, and U.S. Government General Ledger procedures at the transaction level. The Navy ERP foundation to achieve enterprise-wide business transformation is accomplished through two releases: the Financial/Acquisition Solution and the Single Supply Solution. The Navy has overcome a broad range of challenges to successfully deploy financial, acquisition, and workforce management capabilities to all the major acquisition Systems Commands, the Office of Naval Research (ONR), and Strategic Systems Programs (SSP). These commands include up to 72,000 users and \$69B of the Navy's Total Obligation Authority (TOA). Navy ERP has deployed and stabilized the Single Supply Solution covering all Navy's Material Groups and Fleet Logistic Centers (FLCs) and Partner Sites. The project acquires standard applications servers (ADP hardware) which are hosted in a Navy Data Center at NAS Patuxent River to support ERP software for the Navy Converged ERP Program. Funding reflects procurement of Government Furnished Equipment (GFE) hardware, software, and licenses in support of the SAP enterprise system environment for the Navy ERP Program. [P40A / Ashore Equipment]: NP2 is the Navy's world-wide system for the field level input of personnel and pay transactions. NP2 supports active duty and reserve users ashore through a single web site, and on approximately 125 ships. NP2 collects, validates, processes and transfers the data necessary to ensure accurate and timely pay and maintenance of personnel records. NP2 is a modern, cost-effective human resources capability that fully integrates business processes, tools, and authoritative data to efficiently and effectively manage the military workforce. NP2 is being enhanced to systematically modernize the Navy's personnel and pay processes and systems. The Navy Manpower, Personnel, Training and Education (MPT&E) enterprise is urgently transforming the way it operates in order to dramatically improve enterprise performance and quality of life for the Sailor at a fraction of today's costs. Migration of system hosting to the cloud environment will technically enable the MPT&E enterprise to match the speed of technological change and meet changing global operational commitments while maintaining sustainable costs. Additionally, the Office of the Under Secretary of Defense (Comptroller) has developed auditable disbursement and collection processes and data standards to		

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comply with the Treasury mandate and to improve financial processes and eliminate errors at the source. Pay transformation will require additional software licenses that support the underlying business process changes. NP2 will evolve to a integrated personnel and pay solution as part of the MPT&E transformation.		
[P40A / Electronic Procurement System (ePS)]: ELECTRONIC PROCUREMENT SYSTEM (ePS): The electronic Procurement System (ePS) is the Department of the Navy's (DON) End-to-End (E2E) Contract Writing System (CWS). It will provide the Navy and Marine Corps contracting community with full contract writing management capability and facilitate integration with federally mandated systems, DON financial systems, and industry. ePS will utilize Department of Defense (DoD) standards and support auditability. ePS will address existing CWS challenges including outdated architecture, limited capabilities, scalability concerns, and existing legacy systems. Full deployment of the ePS ensures DON's compliance with the following legislative mandates: writing and management of all contracts in congressionally approved computer systems (Section 862 of the National Defense Authorization Act (NDAA) of 2013); central management and oversight of all DoD business (10 U.S. Code (U.S.C.) Section 2222); and contracting actions must be fully auditable and traceable (Section 1003 of the NDAA 2010 & Office of the Secretary of Defense (OSD) Financial Improvement and Audit Readiness (FIAR) Guidance). [P40A / Maritime Operations Center (MOC) Procurement]: MOC delivers Navy Command and Control (C2) capabilities at the Operational Level of War (OLW) that guide execution of the six (6) core capabilities of the Navy as outlined in the Cooperative Strategy for 21st Century Seapower (Forward Presence and Partnership (HADR), All Domain Access, Deterrence, Sea Control, Power Projection, Maritime Security) through the full range of military operations (ROMO). The MOC initiative focuses on improving the Navy's OLW C2 by establishing baseline capabilities in globally-networked MOCs enabling Numbered Fleet and Navy Component Commanders (NFC/NCC) to assume a range of Service and Joint roles while continuing to accomplish traditional Fleet management functions. The MOC construct enhances C2 of Navy forces at the operational level through headquarters manned by individuals qualified in joint operational-level staff processes and enabled by globally interoperable Command, Control, Communications, Computers, and Intelligence (C4I) systems. MOCs provide organizational consistency, the scalability and flexibility to transition between various command roles, and enhanced global networking among Navy and Joint organizations. The desired end state/goal of the system-of-systems methodology embodied in each of the eight (8) MOCs is to achieve globally-networked operational-level C2 decisions by NCC, Joint Force Maritime Component Commanders (JFMCC) and Commanders of Joint Task Forces (CJTF). Focused acquisition of standard and common suites of systems (from the existing base of Navy, Army, Air Force and joint Programs of Record (PORs) and non-PORs) facilitates successful accomplishment of designated Joint Mission-Essential Tasks (JMETs) aligned to Joint Capability Areas (JCAs) and in support of Combatant Commander Theater objectives. This system of systems approach aims to achieve effective, agile, networked and scalable MOCs, employing common doctrine, standardized processes and common C4I systems. Each MOC will be able to operate within a common organizational construct in various roles (joint, interagency and combined). The global network and commonality enable both reach-back and load-sharing across all MOCs within a Navy enterprise network to include Ballistic Missile Defense (BMD) networks. There are currently The eight (8) MOCs consisting of nine (9) sites (seven (7) ashore and two (2) afloat) including each of the numbered Fleets (Commander Third Fleet (C3F); Commander Fourth Fleet (C4F); Commander Fifth Fleet (C5F); Commander Sixth Fleet (C6F) ashore and forward afloat; Commander Seventh Fleet (C7F); Commander Tenth Fleet (C10F); Commander Pacific Fleet (COMPACFLT); and U.S. Fleet Forces Command (COMUSFLTFORCOM) NCCs. With the pending reestablishment of Commander Second Fleet (C2F), an additional MOC will be required with similar POR and non-POR capabilities currently deployed to other MOC locations. [P40A / CNIC]: Smart Grid System provides the ability to centrally monitor, manage, and control energy supply and distribution as well as helps to sustain lower cost of shore operations gained through identification and execution of energy efficiency projects. To attain the Navy's Shore Energy Security Goals, funding will be used to support the procurement of the software and equipment suite to connect advanced metering infrastructure (AMI) with building energy controls across various Navy installations via a secure IT network connection. This procurement provides full capability consisting of hardware, software, integration, & operator training necessary to aggregate data from thousands of disparate control systems into a centralized and secure data management system. It provides the operator(s) transparency of the operational condition of building and utility infrastructure and includes advanced analytics that enable timely action for preventive maintenance, prevention of disruption in operations and support of condition based maintenance, supporting mission assurance and bringing further operational savings. Smart Grid is a regional capability that centralizes energy management for multiple bases at each of nine (9) regions. Two of those regions currently have partial Smart Grid capability but need upgrades to achieve the full capability. Regions are prioritized as follows: (1) Fleet concentration areas and mission assurance (cyber security) - MIDLANT (FY16 1st article test), Hawaii, South West, Marianas, South East (2) OCONUS - EURAFSWA, Far East (3) Upgrade (backfit) existing Smart Grids - NDW, Northwest		

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[P40A / United States Fleet Forces Command]: The procurement of Command Support Equipment involves the purchase, replacement and upgrade of various types of equipment, to include, but not limited to, critical cable plant repair / upgrade, Voice, Video, and Data Infrastructure and security disintegrators / systems at 114 world-wide Base Communications Office (BCO) sites throughout the Pacific and Atlantic areas of responsibility. 17.1 - C4I for Wahiawa: Navy Information Operations Command, Hawaii (NIOC HI) performs all duties assigned by Commander Pacific Fleet (COMPACFLT), Fleet Cyber Command (FLTCYBERCOM) / Commander Tenth Fleet (COMTENTHFLT), Navy Information Forces (NAVIFOR), and the Director, National Security Agency. NIOC HI conducts and provides support to information warfare, cyber, signals intelligence, Information Operations (IO) and electronic warfare mission areas in the Pacific Fleet area of responsibility (PAC AOR). At the direction of United States Cyber Command (USCYBERCOM), FLTCYBERCOM / COMTENTHFLT will be deploying substantial Cyber Mission Forces to Oahu. NCTAMS PAC and NIOC HI require close collaboration and alignment between the elements of the intelligence community under NIOC HI and the network operations under NCTAMS PAC in a controlled environment. MILCON Project P-013 provides Sensitive Compartmented Information Facility (SCIF) space for three PACOM Cyber Protection Teams, which currently has inadequate SCIF space to meet requirements. 17.2 - Command, Control, Communications, Computers, and Intelligence (C4I) for NAS Sigonella Communications Center: Funds provide for Command, Control, Communications, Computers, Collaboration, and Intelligence (C5I) at communications center NAS Sigonella. The new P-130 facility will provide increased mission efficiency and the flexibility to accommodate future missions. 17.4 - C4I/IT Equipment Naval Computer and Telecomm Atlantic: Funding supports planning, design, relocation, procurement and installation of mission related command, control, communications, computers and intelligence/Information Technology (C4I/IT) equipment to new Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMSLANT) Facility. 17.6 - NCTAMS Det Rota Spain C4I: Funding supports the planning, design, relocation, procurement and installation of mission related Command, Control, Communications, Computers, and Intelligence (C4I) and Information Technology equipment to the new Naval Computer and Telecommunications Station LANT, Det Rota Spain. In addition to the planning, design, relocation, procurement and installation of mission related for C4I, funds will specifically support: DISA Transport, Electronic Security System (ESS), C4I Distribution Cabling, Joint Worldwide Intelligence Communications System (JWICS), and a Visual/Collaboration System (VCS). 17.7 - BASE COMMUNICATIONS OFFICE (BCO): Telephone switch Uninterruptible Power Supply (UPS) - Procure and install telephone switch UPS and rectifier systems at CONUS/OCONUS locations which are necessary in order to remedy safety concerns, hazardous situations and performance deficiencies. 17.7 - BASE COMMUNICATIONS OFFICE (BCO) INFRASTRUCTURE REPLACEMENT/UPGRADE (CABLE & EQUIPMENT): Base Communications Office (BCO) provides telecommunications services to include the transport of voice, video and data information at 114 world-wide sites. The BCO is responsible for the daily operations and maintenance of Base Telecommunication services, devices and systems. The funding will allow for immediate repair of cable/equipment. It provides the ability to respond to casualties and to upgrade when necessary for BCOs. 17.8 - Information Operations Condition (INFOCON) 3: Funding required for the procurement of software, licensing upgrades and technical support, to include patches and version upgrades as required, for the Joint Information Management System (JIMS). This software enables JIMS capability to work across systems (Navy to Joint); provides reciprocal communications via web service calls; allows process and technology interfaces for incident reporting, and provides situational awareness of U.S. Navy incidents. 17.9 - ELECTRICAL POWER SYSTEMS: Funding will be used to procure, install, and replace generators and uninterruptible power supply (UPS) systems to provide highly reliable, continuous, high quality power subsystems to support Fleet Cyber Command. Some of the operational load is designated as "critical" and requires UPS Systems for instantaneous application in case of loss or disturbance of the primary power source. 17.10 - DEFENSE RED SWITCH NETWORK (DRSN): Procure and install 5 new DSS-2A red switch systems. Must replace obsolete DRSN switches to maintain operation of Navy DRSN sites. DRSN is the only secure voice system that provides a single user desktop platform Integrated Services Telephone (IST) that allows interface/access to multiple strategic and tactical secure voice systems.		

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17.12 - Navy Space / Aggressor Support Threat Satellite Communications Systems Procurement (NAVIFOR): Provides adversary space threat academics and opposition forces (OPFOR) space threat via live replication during Fleet exercises. Supports Space Aggressor "teach" and live jamming events for CSG-4/CSG-15 integrated events. The USFF/CPF Fleet Training Continuum instruction directs the Navy to adopt an integrated training capability to train Navy forces to high-end threats in a contested environment. Requirement approved as part of Fleet Training Wholeness (2025) Live, Virtual, and Constructive (LVC). The funding will procure three training systems to be used by the Navy Space Adversary Team (N-SAT). 18.1 - DEPLOYABLE MISSION SUPPORT SYSTEMS (DMSS): Beginning in FY18, funding for DMSS kits will be used to support simultaneous team deployments with the primary mission to survey, secure, and protect military networks aboard Navy ships, data centers, and shore sites worldwide which necessitates onsite vulnerability assessments and incident response on little to no notice. DMSS kits are required to allow deployed teams to conduct intensive, computationally-heavy analysis when reach-back capability is unavailable or bandwidth is limited. Navy Cyber Protection Teams (CPTs) located in CONUS will be required to deploy cyber planning and incident response elements into theater to support C4F, C5F, and C6F mission assurance objectives to include identification of cyber key terrain and Operation Plan (OPLAN) development. The DMSS kits are simple modifications and have no installation costs associated since the work will be performed at the Navy organizational level. The funding increase from FY19 to FY20 is due the more kits being procured in FY20 vice FY19. Beginning in FY20, for DMSS kits will be realigned to the Cyber Pure budget line item 8120. [P40A / C4I for P-013 Wahiawa]: MILCON Project P-013 provides Sensitive Compartmented Information Facility (SCIF) space for three Cyber Protection Teams, which currently has inadequate SCIF space. Decrease from FY19 to FY20 is due to lower procurement Support Equipment cost for the Wahiawa center. [P40A / NAS Sigonella - Comms Center]: The mission of Naval Computer and Telecommunications Station Sicily (NAVCOMTELSTA Sicily) is to bring decision superiority to operational forces, deny it to the enemy, and provide the operational platform for information - secure and reliable, classified and unclassified voice, messaging, video, and data telecommunications to United States (U.S.) Naval, Joint, Interagency, and Allied operating forces in and around southern Italy. NAVCOMTELSTA Sicily provides reliable and enduring Command, Control, Communications, Computers and Intelligence (C4I) and Information Technology (IT) services to the Defense Information Systems Agency (DISA), Fleet Forces Command and its units afloat, Navy shore facilities in Europe, tactical units of all Service Components and transmission continuity throughout the Mediterranean Area of Responsibility (AOR). The requirement will provide for a safe, secure, efficient, and adaptable facility that provides NAVCOMTELSTA personnel the ability to accomplish assigned missions. NAVCOMTELSTA Sicily operates a Technical Control Facility (TCF), which contains the equipment necessary for ensuring a fast, reliable, and secure exchange of information. It typically includes distribution frames and associated panels, jacks, switches, monitoring, testing, conditioning, and ordering wire equipment. The TCF allows telecommunications systems control personnel to exercise operational control of communications paths and facilities, make quality analyses of communications and communications channels, monitor operations and maintenance functions, recognize and correct deteriorating conditions, restore disrupted communications, provide requested on-call circuits, and take or direct such actions, as may be required and practical, to provide effective telecommunications services. The TCF also performs basic functions for receiver and transmitter sites remotely. This includes tuning, equipment patching, quality monitoring of received or radiated signals, switching or directional control of antennas, primary ship-to-shore circuit operations, and the submission of required reports. To perform these operations, NAVCOMTELSTA Sicily telecommunications facility provides reliable and sustained C4I and IT services throughout the Mediterranean AOR. [P40A / NCTAMS Det Souda Bay - Comms Center]: Naval Computer and Telecommunications Area Master Station Atlantic Detachment (NCTAMS LANT DET) Souda Bay provides voice, video, and data services to NSA Souda Bay. These services include Defense Switch Network, commercial voice, and Non-secure Internet Protocol Router Network (NIPRNET) and Secure Internet Protocol Router Network (SIPRNET) services. National Airborne Operations Center officially uses NSA Souda Bay to support its operations and requires a strong level of communications support. The airfield, port, several NATO facilities, and geographical location make NSA Souda Bay an invaluable support location for many exercises, both NATO and U.S. hosted. [P40A / C4I/IT Equipment Naval Computer and Telecomm Atlantic]: Naval Computer and Telecommunications Area Master Station Atlantic - NCTAMSLANT is one of two Major Communications Stations (MCS). NCTAMS LANT provides reliable and enduring Command, Control, Communications, Computers and Intelligence (C4I) and Information Technology (IT) services to the Defense Information Systems Agency (DISA), Fleet Forces Command and its units afloat, Navy shore facilities in the eastern U.S., Middle East, Africa and Europe, tactical units of all Service Components and transmission continuity throughout the Atlantic (LANT) Area of Responsibility (AOR). It provides a safe, secure, efficient, and adaptable facility with Open Architecture (OA) that aggregates NCTAMS LANT personnel dispersed across Naval Station (NAVSTA) Norfolk, including the Fleet Network Operations Center (FLTNOC) in Building (Bldg.) NH-95, and co-locates communications equipment and watch floors into a common area to accomplish assigned missions.		

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NCTAMS LANT exercises operational direction for Navy telecommunications assets in Virginia, Maine, Florida, North Dakota (NCTAMS LANT Detachment Lemoore), Guantanamo Bay Cuba, Puerto Rico, Spain, Italy, Greece, Iceland, Bahrain and Djibouti and coordinates all GIG, Defense Information Systems Network (DISN), Defense Switched Network (DSN) and commercial services in the Tidewater, Virginia area.		
[P40A / New Joint Regional Security Stack (JRSS)]: Funds supports the Navy's transition to the Joint Regional Security Stack (JRSS)/Service Migration Team (SMT) to enhance the Department of Defense (DOD)firewall functions, intrusion detection and prevention, enterprise management, virtual routing and cyber network security capabilities. JRSS defends the cyber warfighting domain and resolves the Joint Information Environment (JIE) Initial Capabilities Document (ICD) gaps by shrinking the attack surface area. JRSS also achieves standard network security architecture and accelerates a standardized command and control platform for JIE.		
[P40A / C4I Equipment Naval Computer and Telecomm Station Det Rota Spain]: NCTAMS Det Rota acts as a hub and provides communications services to Naval Station Rota,Spain and Naval units in Madrid, Valencia, Lisbon (Portugal), and Gibraltar for approximately 10,000 DoD personnel. In addition to this defense telecommunication capacity, NCTAMS provides commercial telecommunication services to Naval Station Rota users. Commercial fiber and copper lines come into the base via Building 3307, the main telephone switch facility. From this facility, DoN managed copper and fiber cables are routed throughout NAVSTA Rota so that communications data can be distributed to interconnecting five remote telephone switch nodes. NCTAMS LANT Det Rota significant Joint Support includes: - Provide direct C4I support for USEUCOM, USAFRICOM, USCENTCOM, and USTRANSCOM. Rota is TRANSCOM's premier en route air mobility hub for support to EUCOM, CENTCOM and AFRICOM. - Provide COMSEC support for Strike Force NATO in Lisbon, Portugal. Constructs a new consolidated, secure, state-of-the-art, communications station and support facility. Project will allow consolidation of administrative, personnel and operational support functions into a new facility and subsequent demolition of eleven old and deteriorated buildings.		
[P40A / BCO Infrastructure Replacement (Cable & Equipment) NAVIFOR]: Naval Computer and Telecommunications Station Far East (NCTSFE) requires Fiber Optic Backbone Realignment on Fleet Activities Yokosuka. BLII engineering and installation did not ensure nor provide for redundancy in case of meteorological, geological, or intentional service interruption. Out-side plant Fiber has been installed by many different efforts with no logical hierarchy and no redundancy to the critical C2 nodes as there are actually five separate fiber optical backbones that do not connect. Current optical backbone infrastructure will not support Assured Services LAN (ASLAN) in accordance with DOD Unified Capability Requirements (DOD UCR 2008) allowing converged distribution of voice, video and data services to include redundancy and diversity of critical C2 and special C2 infrastructure. This results in C2 buildings being single-threaded and at great risk of potential loss of service in a catastrophic event. Key users who will lose connectivity include the NATIONAL COMMAND AUTHORITIES, Combatant Commanders of the Unified Commands, and strategic and tactical subordinate commanders.		
[P40A / INFOCON 3 - Security Compliance NAVIFOR]: Funding will support hardware/software for enhancing analytical capacity and Host Based Security System mission system changes to provide warning to mitigate host level malicious activity.		
[P40A / Electrical Power Systems NAVIFOR]: Funding supports the procurement of spare parts and materials for emergency power equipment, generators and Un-interrupted Power Source/System (UPS) and high Frequency Global Communications System to execute primary mission areas such as Anti-Submarine Warfare (ASW), Ballistic Missile Defense (BMD) and Maritime Operations Centers (MOCs); perform equipment/C4I inspections to ensure safety, security, and health of personnel; mitigate network vulnerabilities and perform security accreditation inspection and assist visits; obtain required Information Assurance Workforce certification training; and, fund travel for medical evacuations and CPR training.		
Procurement Plan Electrical Power: Navy manages 7 of the DoD Gateway sites (Wahiawa, Guam, Diego Garcia, Australia, Chesapeake, Lago Patria, and Bahrain). FY20 funding for CE 17.9 Electrical Power System, supports the procurement of a new emergency power equipment/generators and Un-Interrupted Power Source/System for Fleet Numerical Meteorology and Oceanography Center. Current system in place is FAILING and complete failure will impact Navy's ability to complete its DOD and Joint Strategic, Operational and Tactical commitments/mission.		
[P40A / Defense Red Switch Network Replacement NAVIFOR]: Defense Red Switch Network (DRSN) is a separate, secure switched network that is considered part of the DISN providing high quality, secure voice communications, secure data communications, and secure conferencing capabilities to the senior decision-makers and Combatant Commanders. DRSN provides the National Command Authority (NCA), the National Military Command Center (NMCC), Combatant Commander Command Centers, Warfighters, and other critical DoD and federal activities with reliable, secure, interoperable Command and Control (C2) and crisis management capabilities.		

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[P40A / C4I for NAVEUR]: Funds support C4I for Bldg 575 located at Naval Station Rota, Spain.		
[P40A / Navy/Space Aggressor Support NAVIFOR]: Navy Space / Aggressor Support Threat Satellite Communications Systems Procurement (NAVIFOR): Provides adversary space threat academics and opposition forces (OPFOR) space threat via live replication during Fleet exercises. Supports Space Aggressor "teach" and live jamming events for CSG-4/CSG-15 integrated events. The USFF/CPF Fleet Training Continuum instruction directs the Navy to adopt an integrated training capability to train Navy forces to high-end threats in a contested environment. Requirement approved as part of Fleet Training Wholeness (2025) Live, Virtual, and Constructive(LVC). The funding will procure three training systems to be used by the Navy Space Adversary Team (N-SAT).		
Navy Space/Aggressor Support (82B Space Missile Warning School) Threat Satellite Communications Systems Procurement: The funding will procure Fly Away Kits for the Navy Space Adversary Team (N-SAT). The USFF/CPF Fleet Training Continuum instruction directs the Navy to adopt an integrated training capability to train Navy forces to high-end threats in a contested environment. Requirement is part of Fleet Training Wholeness (2025) Live, Virtual, and Constructive (LVC).		
[P40A / Deployable Mission Support Systems (DMSS)]: Starting in FY20, funds realigned to line item 8120.		
[P40A / Briefing Display System Upgrade]: PNCSE - Briefing Display System Upgrade (NAVCENT): Procure and install NAVCENT HQ Briefing and Display System (BDS) Upgrade. Coalition partners are currently standing operations on the C5F Maritime Operations Center (MOC) Watch Floor which is powered by the BDS. All Coalition missions are observed and monitored within the MOC and both C5F and Coalition forces use BDS throughout the rest of NAVCENT HQ to include the War Room, MOC conference room, and within Flag Officer spaces. BDS is a critical capability to allow US, and Coalition Nations, to pursue Strategic Security Objectives within the CENTCOM Area of Responsibility. In addition the BDS capability can be configured to share Situational Awareness with Higher Echelons of Command and Peer Commands. The new BDS system will replace the current architecture and allow for capability enhancements to provide increased strategic Command and Control, be CYBERSAFE Compliant, allow for flexibility to adjust displays with the MOC Watch Floor and secure conference rooms. The BDS is the primary battle space awareness tool used by the Combined Maritime Forces US and Coalition Watch Team as well as NAVCENT leadership Command and Control. BDS is a multifaceted Video Information System providing battle-space awareness video to the Combined Maritime Operation Center (CMOC), Alternate Maritime Operations Center (AMOC), War Room, Flag/Coalition Command Suite, Department Head offices, conference rooms and key coalition leadership. BDS is essential to US and Coalition leadership command and control of all naval forces in the CENTCOM area of responsibility. BDS is currently part of Core Build/Mission Build (CB/MB) for every Fleet MOC as annotated in OPNAVINST 3500.42 "Maritime Operations Standardization".		
[P40A / European Deterrence Initiative]: European Deterrence Initiative.		
[P40A / Undersea Warfare Decision Support System - CNE]: NAVEUR Undersea Warfare Decision Support System. Funds will provide for procurement of MD-1324 modem and two systems installs at HQ MOC CTF-69 and CTF-67 for P3-8 Integration. Details held at a higher classification.		
[P40A / Maritime Operations Center (MOC) Server Room]: Supplemental funding requested for engineering, procurement and installation services in support of Maritime Operation Center (MOC) Command and Control (C2) server room relocation and reconfiguration. NAVCENT MOC C2 Server Room houses all the mission essential equipment for both the Warfighting Mission Area (WMA) and Enterprise Information Environment Mission Area (EIEMA) used by the Combined Maritime Forces US and Coalition Watch Team as well as NAVCENT leadership Command and Control. MOC C2 systems provide Combined Maritime Operation Center (CMOC), Alternate Maritime Operations Center (AMOC), War Room, Flag/Coalition Command Suite, Department Head offices, conference rooms and key coalition leadership with critical decision making information to allow Naval Forces Central Command and Combined Maritime Forces Commander to direct.		
[P40A / Briefing Display System (BDS) Delta]: Update of Briefing Display System (BDS) system to replace the current system and allow for capability enhancements to provide increased strategic Command and Control capability enhancements, be CYBERSAFE Compliant, and allow NAVCENT to buy back up to 20KW of power in order to support other critical system installations.		
[P40A / Navy Enterprise Tactical Command and Control (NETC2)]: The Navy Enterprise Tactical Command and Control (NETC2) is an integrated command and control headquarters which enables a commander to set up a self-contained, self-powered, computer network-enabled temporary headquarters facility anywhere in the world within 6 - 24 hours of arrival at a location. This system will replace the current Joint Maritime Ashore Support Team (JMAST) CENT. The current JMAST in NAVCENT's current Command and Control (C2) systems Continuity of Operations (COOP) site; it was decommissioned as		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8106 / Command 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		
of 30 Sept 2016 with no replacement identified. NETC2 offers a one-for-one replacement of the existing JMAST capabilities. JMAST is antiquated and cannot be made Information compliant in its current state. Moreover, JMAST is comprised of legacy equipment that is no longer supported by the Program of Record (POR).		
[P40A / U.S. Pacific Fleet]: The U.S. Pacific Fleet utilizes Command Support procurement funds for the purchase of equipment in support of Fleet Operations in the Pacific AOR.		
[P40A / Canopy Shelters]: Temporary Enclosed Dehumidified Tension Fabric Structures to Store Attrition Aircraft at Naval Base Coronado.		
[P40A / Tension Fabric Shelters]: Temporary Enclosed Dehumidified Tension Fabric Structures to conduct backlog maintenance on FA-18E/F aircraft at Naval Air Station Lemoore		
[P40A / ADE]: Authoritative Data Environment (ADE) is aimed at transitioning the current project based ADE into a full enterprise solution that is based on modern IT service models and cloud hosting technology. The MPT&E Transformation initiative will consolidate multiple legacy data warehouses and stream that data through a single, authoritative environment. This will advance data analytics and visualization capabilities, and add common platform services in a big data environment that is consistent with private industry. This acceleration toward a true Navy-wide personnel authoritative data environment is a transformational increase in capability for decision support and improving personnel readiness.		
[P40A / Aviation Support Equipment]: The Aviation Support Equipment utilizes Command Support procurement funds for the purchase of equipment in support of Fleet Operations.		
[P40A / Tension Fabric Shelters]: Temporary Tension Fabric Structure in support of Naval Aviation activities at Marine Aircraft Group (MAG) 11, Marine Corps Air Station (MCAS) Miramar.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8106 / Command 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										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Command Support Equipment	P-5a, P-21			- / 165.391	- / 78.406	- / 61.577	- / 66.102	- / 2.800	- / 68.902
P-40	Total Gross/Weapon System Cost				- / 165.391	- / 78.406	- / 61.577	- / 66.102	- / 2.800	- / 68.902
*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: NCIS Data Modernization & Analytical Tools Funding required to support components of NCIS' NJIS Scanning, Tactical Network and VTC infrastructure initiatives. As the DON begins the roll-out of NJIS, NCIS has a requirement to deploy a variety of high speed scanning capabilities across the enterprise to capture investigative data. NCIS is under development to host critical investigative and operational capabilities which will provide a secure and private environment that allows the investigative technical components of the organization to conduct their mission more efficiently. A number of investigative tools and techniques will leverage this tactical network to include Investigative Cyber Security; Technical Services; Cyber, Technical Surveillance Counter Measures (TSCM), Tech Services, Bio-Metrics, etc. Currently, these capabilities are scattered across separate networks and are not integrated or available to the agency as a whole. Furthermore, NCIS' conference rooms and Leadership Desktop Units are reaching end-of-life and replacement of these systems will give NCIS the capabilities to securely communicate about ongoing investigative and operational sensitive cases to support mission requirements. Office of Civilian Human Resources (OCHR): Human Resources IT System Funding required to provide information technology system support for over 204,000 civilians at more than 1,340 naval activities throughout the world. These systems are the core of human resource support for the Department of the Navy. The OCHR Systems Division has the responsibility to implement, sustain, and support the hardware, software, systems and applications, functional administration, and communications infrastructure in accordance with the Department of Navy Chief Information Office, Naval Network Warfare Command, Navy Marine Corp Intranet, and DOD Civilian Personnel Management Services mandates, directives, and policies. The technology for the myriad of human resource applications requires upgrades and/or additional capability to support and maintain the integrity of these systems cost effectively. DON Financial Improvement Program (FIP) Formed in response to Congressional mandates for Navy-Marine Corps and the rest of the Defense Department to achieve financial auditability. The FIP is a Department-wide multi-year change management effort which requires fundamental improvements to processes and systems as well as to the business culture to implement those strengthened internal controls. Increase in FY19 required for the STARS to SABRS (S2S) transition hardware and software (HW/SW) required for supporting DON SABRS/SMARTS. This funding addresses the many HW/SW requirements to transition the 11 BSOs migrating over to SABRS. Implementation allows DON to comply with OSD's Financial Management (FM) Functional Strategy, to (1) simplify the financial management environment; (2) make the environment more efficient; and, (3) generate auditable budget and accounting data. Insider Threat: Insider Threat funding transfers FY20-24 from OPN LI 8106 to OPN LI 3415. Center Consolidation (DCC) funding: In FY20, \$1.5M will procure servers (encompassing both hardware and software components), ancillary equipment associated with the servers (racks, cables, switches, etc.), and integration and installation efforts as needed to meet additional hosting requirements as consolidated applications are hosted in approved hosting locations, and as a part of regular data center technical refresh. Regular technical refresh is required to maintain cyber security readiness and accreditation at the data centers. Data Center Consolidation is a new start in FY20. EMPRS:										

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8106 / Command 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		
FY20 funding (-609K) will provide for the purchase of storage devices, network devices and Selection Board Management HW. All of our contracts that have been award identify the contractor and Method/Type or funding vehicles. Overall funding EMPRS decrease from FY19 to FY20 is due to decrease in units of storage devices needed and no need for high speed scanners FY20.		
Converged Enterprise Resource Planning (ERP): FY20 funding required for critical infrastructure procurements to replace items that have reached end of life. Procurements will replace aged components in the 3-5 year lifespan range. This modernization will improve cyber security management, minimize process customizations, and improve system performance; specifically enhancing business critical transactions, reports, and facilitating faster month-end/year-end financial closing.		
The Navy ERP system has gained more than 30% utilization across multiple databases resulting in substantial growth in data storage and retention since inception. Data storage has continued annual growth resulting in more than 60TB of data driving the requirement for the increased OPN funding. Additionally, several infrastructure components need to be refreshed because they are nearing end of life and are subject to higher failure rates causing reliability concerns in infrastructure performance.		
NP2 (Navy Personnel and Pay System) formerly NSIPS: FY20 Procurement funds will be used for Oracle licensing to bring the current Field Test software to a production level: User Productivity Kit (UPK), Financials, GRC, Integration Hub, etc.		
FY20 ADE funding will be used to procure the following centrally managed licenses: 1) Data Management Toolset (Informatica) 2) API Gateway Management Toolset (WSO2 and Run Time) 3) Analytic Toolset (R-Studio and additional tools requested by the stakeholders)		
ELECTRONIC PROCUREMENT SYSTEM (ePS): FY20 funding will provide for additional user licenses for Release 1 of ePS to 3644 critical users and 7658 non-critical users. License costs are based on a per seat cost and are critical in deploying ePS to users from NAVSEA, NAVAIR, SPAWAR, ONR, MSC, and USMC commands.		
Maritime Operations Center (MOC): The FY 2020 funding will provide for procurement, production engineering, integration and installations required to continue incremental improvements of the common core infrastructure and Command, Control, Communications, Computers and Intelligence (C4I) capabilities of the MOCs, leading to fully-integrated, globally-networked operational-level commands with a Navy enterprise network and appropriate capabilities to exercise Command and Control (C2) over Navy missions, such as Ballistic Missile Defense (BMD), in accordance with MOC baseline requirements.		
CNIC: SMARTGRID Smart Grid Energy Management Computer Software Suite Description: Smart Grid is a new building and utility energy management capability comprised of a computer software suite that through daily operations brings significant savings from predictive maintenance and efficient management of energy sources across the Navy's 70 CONUS and OCONUS installations. The Smart Grid provides first time capability to intelligently analyze energy data from 16,849 smart meters previously installed to comply with the Energy Policy Act 2005 (Public Law 109-58-August 8, 2005) and the Energy Independence and Security Act 2007 (Public Law 110-140-December 19, 2007). The Smart Grid aggregates meter data with highest energy consuming 2042 buildings and 174 utility control systems to intelligently and continuously identify cost savings opportunities, providing 2 of the 8 Trillion BTU energy savings needed to achieve the 50% Navy energy reduction target. The Smart Grid brings first time transparency of building and utility system operations and behavior, essential to both monitor for, and react to, a cyber-event. Funding for the Smart Grid program varies FY17-19 based on the phased Smart Grid deployment schedule.		
Command, Control, Communications, Computers, and Intelligence (C4I) for Wahiawa: Decrease from FY19 to FY20 due to lower unit costs for the planning, design, relocation, procurement and installation of mission related Command, Control, Communications, Computers, and Intelligence (C4I) and Information Technology equipment to the Wahiawa.		
Command, Control, Communications, Computers, and Intelligence (C4I) for NAS Sigonella Communications Center:		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
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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		
Increase in FY20 provide funds for Command, Control, Communications, Computers, Collaboration, and Intelligence (C5I) at communications center NAS Sigonella. The existing NAVCOMTELSTA Sicily currently located in Building 585 is no longer suitable for the current and known future missions. The existing NAVCOMTELSTA Sicily facility does not have a Sensitive Compartmented Information Facility (SCIF), which makes users less efficient when they must process TS information. The new P-130 facility will provide increased mission efficiency and the flexibility to accommodate future missions. C4I/IT Equipment Naval Computer and Telecomm Atlantic: The increase from FY19 to FY20 due to rephrasing of resources for planning, design, relocation, procurement and installation of mission related for C4I, specifically support: Navy Time and Sync (FY20) and Visualization Collaboration system (FY20). Funding supports planning, design, relocation, procurement and installation of mission related command, control, communications, computers and intelligence/ Information Technology (C4I/IT) equipment to new Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMSLANT) Facility. Increase will strengthen the Navy's ability to regionally manage networks and telecommunications, effectively respond to Navy Component and Fleet Commanders, contribute to transparent shared situational awareness (SA), track and characterize cyberspace threats and their relative impact on network operations, monitor and defend the security posture of the networks through distributed defensive cyberspace operations and enable Commander, Tenth Fleet (COMTENTHFLT) to standardize Command and Control (C2) of Navy networks. NCTAMS Det Rota Spain C4I: Funding supports the planning, design, relocation, procurement and installation of mission related Command, Control, Communications, Computers, and Intelligence (C4I) and Information Technology equipment to the new Naval Computer and Telecommunications Station LANT, Det Rota Spain. Naval Station Rota is responsible for providing secure and reliable classified and unclassified voice, messaging, video and data telecommunication to more than 10,000 users including Forward Deployed Naval Forces. Communication outage risks are attributed to degraded facility conditions and flooding. Without investment, the Navy risks communication outages. In addition to the planning, design, relocation, procurement and installation of mission related for C4I, increase between FY19 and FY20 will specifically support: DISA Transport (FY20) Electronic Security Sys (ESS) (FY20) C4I Distribution Cabling (FY20) Joint Worldwide Intelligence Communications System (JWICS) (FY20-22) Visual/Collaboration Sys (VCS) (FY20) Base Communication Infrastructure: Increase in FY20 to support Outside cable plant (OSP) infrastructure upgrades required to comply with Unified Capabilities (UC) specifications. Upgrades supports infrastructure for Base Communications Office (BCO) operations. BCO provides the Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR)structure that enables Base level Information Infrastructure (BLII), OCONUS Navy Enterprise Network (ONE Net), Defense Information Systems Network (DISN), Navy Installations Command/Navy Public Safety Network (CNIC/PSNET) and Navy/Marine Corps Intranet (NMCI) as well as Command and control (C2) telephony (DSN services (local, long distance commercial service, emergency, physical security). Information Operations Condition (INFOCON) Computer Network Defense System Updates: The primary mission of the Cyber Protection Team (CPT) is to Survey, Secure, and Protect military networks (aboard Navy ships, data centers, and shore sites worldwide) which necessitates onsite vulnerability assessments and incident response on little to no notice. Emergency Power, Electrical Power Systems and Uninterrupted Power Source/System for NETWORKS: Increase in FY20 to support the procurement of spare parts and materials for emergency power equipment, generators and Uninterrupted Power Source/System (UPS) and high Frequency Global Communications System to execute primary mission areas such as Anti-Submarine Warfare (ASW), Ballistic Missile Defense (BMD) and Maritime Operations Centers (MOCs); perform equipment/C4I inspections to ensure safety, security, and health of personnel; mitigate network vulnerabilities and perform security accreditation inspection and assist visits; obtain required Information Assurance Workforce certification training; and, fund travel for medical evacuations and CPR training. This increase will benefit due to an updated emergency power equipment/generators Un-Interrupted Power Source/System. Defense Red Switch Network replacement/upgrade. Increase in FY20 to support Defense Red Switch Networks.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8106 / Command 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 Deployable Mission Support Systems (DMSS): Beginning in FY20, funding reduction due a realignment of Cyberspace Activity resources from non-Cyber line item 8106 to the appropriate Cyber Pure budget line item 8120 which ensures compliance with FY 2017 Appropriations Act. Navy Space / Aggressor Support Threat Satellite Communications Systems Procurement (NAVIFOR): Provides adversary space threat academics and opposition forces (OPFOR) space threat via live replication during Fleet exercises. Supports Space Aggressor "teach" and live jamming events for CSG-4/CSG-15 integrated events. The USFF/CPF Fleet Training Continuum instruction directs the Navy to adopt an integrated training capability to train Navy forces to high-end threats in a contested environment. Requirement approved as part of Fleet Training Wholeness(2025) Live, Virtual, and Constructive (LVC). The funding will procure three training systems to be used by the Navy Space Adversary Team (N-SAT).		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2								P-1 Line Item Number / Title: 8106 / Command Support Equipment							Aggregated Items Title: Command Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
1) NCIS																				
1.1) NCIS Data Modernization & Analytical Tools ^{(1)(†)}	A		2,171.667	6	13.030	3,652.000	1	3.652	2,439.000	1	2.439	1,779.000	1	1.779	-	-	-	1,779.000	1	1.779
Subtotal: 1) NCIS			-	-	13.030	-	-	3.652	-	-	2.439	-	-	1.779	-	-	-	-	-	1.779
2) Tech Refresh																				
2.1) OCHR - Human Resource IT system ^(†)	A		435.000	7	3.045	442.000	1	0.442	446.000	1	0.446	446.000	1	0.446	-	-	-	446.000	1	0.446
2.2) FIP ^{(2)(†)}	A		1,968.667	3	5.906	2,690.000	1	2.690	3,055.000	1	3.055	1,591.000	1	1.591	-	-	-	1,591.000	1	1.591
Subtotal: 2) Tech Refresh			-	-	8.951	-	-	3.132	-	-	3.501	-	-	2.037	-	-	-	-	-	2.037
3) Insider Threat																				
3.1) Hardware/ Software License Procurement - HUB ^(†)	A		-	-	-	500.000	1	0.500	-	-	-	-	-	-	-	-	-	-	-	-
3.2) Hardware/ Software License Procurement - UAM ^(†)	A		-	-	-	500.000	1	0.500	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) Insider Threat			-	-	0.000	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-
4) Electronic Military Personnel Record System (EMPRS)																				
4.1) Selection Board Management HW SW ^(†)	A		8.571	56	0.480	3.490	255	0.890	3.110	92	0.286	3.400	114	0.388	-	-	-	3.400	114	0.388
4.2) Client Management HW SW	A		4.472	269	1.203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.3) Network Management HW SW	A		22.581	31	0.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.4) Network Devices ^(†)	A		149.714	7	1.048	-	-	-	-	-	-	4.330	3	0.013	-	-	-	4.330	3	0.013
4.5) Storage Devices ^{(3)(†)}	A		214.455	22	4.718	19.000	52	0.988	19.000	50	0.950	19.230	35	0.673	-	-	-	19.230	35	0.673
4.6) Workstations (Sel Board)	A		3.226	527	1.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.7) Scanners High Speed ^{(4)(†)}	A		67.471	17	1.147	-	-	-	63.860	7	0.447	-	-	-	-	-	-	-	-	-
4.8) Peripherals ⁽⁵⁾	A		22.828	116	2.648	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.9) Sel Board Display	A		249.000	2	0.498	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.10) Servers	A		123.333	30	3.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.11) Content Management HW SW	A		8.837	221	1.953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.12) Records Mgmt SW	A		768.000	4	3.072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy														Date: March 2019						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8106 / Command Support Equipment								Aggregated Items Title: Command Support Equipment						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
4.13) Configuration Management HW SW	A		142.500	2	0.285	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.14) Data Center Consolidation (DCC) (6)(t)	A		-	-	-	-	-	-	-	-	-	1,500.000	1	1.500	-	-	-	1,500.000	1	1.500
Subtotal: 4) Electronic Military Personnel Record System (EMPRS)			-	-	23.152	-	-	1.878	-	-	1.683	-	-	2.574	-	-	-	-	-	2.574
5) Electronic Security System (ESS) Replacement/Upgrade																				
5.1) Electronic Security System (ESS) Replacement Update	A		7,903.000	1	7.903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 5) Electronic Security System (ESS) Replacement/Upgrade			-	-	7.903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) System - Crisis Announcement																				
6.1) Control Unit	A		225.000	3	0.675	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) Speakers/Strobes/Message Displays	A		0.933	150	0.140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3) Remote Control/Monitoring Units	A		2.500	70	0.175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.4) Remote Alert System	A		1.000	55	0.055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.5) Alert Status Communications	A		1.000	20	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.6) Power Supplies	A		2.500	24	0.060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.7) Wiring, Installation, Testing	A		375.000	1	0.375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 6) System - Crisis Announcement			-	-	1.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7) MPTE Core Transformation																				
7.1) MPTE Core Transformation PeopleSoft Licenses (7)(t)	A		29.000	100	2.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 7) MPTE Core Transformation			-	-	2.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8) Insider Threat - SPAWAR																				
8.1) Operational Spares(t)	A		-	-	-	-	-	-	346.000	1	0.346	-	-	-	-	-	-	-	-	-
8.2) Hardware/Software Procurement(t)	A		-	-	-	-	-	-	903.000	1	0.903	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8106 / Command Support Equipment							Aggregated Items Title: Command Support Equipment						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
8.3) ONI Refresh Hardware/Software/Install ^(†)	A		-	-	-	-	-	-	458.000	1	0.458	-	-	-	-	-	-	-	-	-
Subtotal: 8) Insider Threat - SPAWAR			-	-	0.000	-	-	-	-	-	1.707	-	-	-	-	-	-	-	-	-
9) Converged ERP																				
9.1) Converged ERP ⁽⁸⁾	A		-	-	1.638	-	-	2.601	-	-	4.678	-	-	3.865	-	-	-	-	-	3.865
Subtotal: 9) Converged ERP			-	-	1.638	-	-	2.601	-	-	4.678	-	-	3.865	-	-	-	-	-	3.865
10) Navy Personnel and Pay (NP2) Formerly NSIPS																				
10.1) Ashore Equipment ⁽⁹⁾	A		-	-	1.109	-	-	2.755	-	-	5.883	-	-	1.908	-	-	-	-	-	1.908
Subtotal: 10) Navy Personnel and Pay (NP2) Formerly NSIPS			-	-	1.109	-	-	2.755	-	-	5.883	-	-	1.908	-	-	-	-	-	1.908
11) Electronic Procurement System (ePS)																				
11.1) Electronic Procurement System (ePS) ⁽¹⁰⁾	A		-	-	1.875	-	-	3.658	-	-	2.701	-	-	6.323	-	-	-	-	-	6.323
Subtotal: 11) Electronic Procurement System (ePS)			-	-	1.875	-	-	3.658	-	-	2.701	-	-	6.323	-	-	-	-	-	6.323
12) Maritime Operations Center (MOC) Procurement ⁽¹¹⁾																				
12.1) Baseline Equipment - Ashore ^{(12)(†)}	A		412.385	65	26.805	230.143	7	1.611	236.857	7	1.658	181.000	7	1.267	-	-	-	181.000	7	1.267
12.2) Baseline Equipment - Afloat ^{(13)(†)}	A		241.500	8	1.932	227.150	2	0.454	233.500	2	0.467	236.610	2	0.473	-	-	-	236.610	2	0.473
Subtotal: 12) Maritime Operations Center (MOC) Procurement			-	-	28.737	-	-	2.065	-	-	2.125	-	-	1.740	-	-	-	-	-	1.740
13) Maritime Operations Center (MOC) Production Support																				
13.1) Production Support - Ashore	A		-	-	0.874	-	-	0.091	-	-	0.095	-	-	0.095	-	-	-	-	-	0.095
13.2) Production Support - Afloat	A		-	-	0.121	-	-	0.031	-	-	0.032	-	-	0.032	-	-	-	-	-	0.032
Subtotal: 13) Maritime Operations Center (MOC) Production Support			-	-	0.995	-	-	0.122	-	-	0.127	-	-	0.127	-	-	-	-	-	0.127
14) Maritime Operations Center (MOC) Ashore Installations																				
14.1) Installations - Ashore	A		-	-	16.265	-	-	0.818	-	-	0.830	-	-	0.832	-	-	-	-	-	0.832
Subtotal: 14) Maritime Operations Center (MOC) Ashore Installations			-	-	16.265	-	-	0.818	-	-	0.830	-	-	0.832	-	-	-	-	-	0.832
15) Maritime Operations Center (MOC) Afloat Installations																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8106 / Command Support Equipment								Aggregated Items Title: Command Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
15.1) Installations - Afloat	A		-	-	1.081	-	-	0.231	-	-	0.234	-	-	0.235	-	-	-	-	-	0.235
Subtotal: 15) Maritime Operations Center (MOC) Afloat Installations			-	-	1.081	-	-	0.231	-	-	0.234	-	-	0.235	-	-	-	-	-	0.235
16) CNIC ⁽¹⁴⁾																				
16.1) SG Software Procure & Install ^{(15)(t)}	A		1,556.500	2	3.113	1,718.000	2	3.436	1,265.500	2	2.531	-	-	-	-	-	-	-	-	-
16.2) Common Operating Picture & Data Configuration ^{(16)(t)}	A		634.000	2	1.268	766.000	2	1.532	564.500	2	1.129	-	-	-	-	-	-	-	-	-
16.3) Hardware - Middleware panels for Data Normalization ^{(17)(t)}	A		189.000	2	0.378	165.000	2	0.330	161.000	2	0.322	-	-	-	-	-	-	-	-	-
16.4) Aggragate & Configure Bldg & Utility data to Cyber Secured Network ^{(18)(t)}	A		3,377.500	2	6.755	4,082.000	2	8.164	3,006.500	2	6.013	-	-	-	-	-	-	-	-	-
16.5) Install Advanced Analytics for Meter Consumption Data ^{(19)(t)}	A		273.500	2	0.547	149.000	2	0.298	110.000	2	0.220	-	-	-	-	-	-	-	-	-
16.6) SABRS Transition Support and Modernize FIS ⁽²⁰⁾	A		-	-	-	-	-	-	-	-	-	-	-	1.300	-	-	-	-	-	1.300
Subtotal: 16) CNIC			-	-	12.061	-	-	13.760	-	-	10.215	-	-	1.300	-	-	-	-	-	1.300
17) United States Fleet Forces Command																				
17.1) C4I for P-013 Wahiawa ⁽¹⁾	A		-	-	-	-	-	-	223.000	1	0.223	195.000	1	0.195	-	-	-	195.000	1	0.195
17.2) NAS Sigonella - Comms Center ^{(21)(t)}	A		-	-	-	-	-	-	-	-	-	2,840.000	1	2.840	-	-	-	2,840.000	1	2.840
17.4) C4I/IT Equipment Naval Computer and Telecomm Atlantic ^{(22)(t)}	A		-	-	-	-	-	-	2,323.000	1	2.323	4,900.000	1	4.900	-	-	-	4,900.000	1	4.900
17.5) New Joint Regional Security Stack (JRSS) ⁽²³⁾	A		2,971.000	1	2.971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17.6) C4I Equipment Naval Computer and	A		-	-	-	-	-	-	1,887.000	1	1.887	2,154.000	1	2.154	-	-	-	2,154.000	1	2.154

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8106 / Command Support Equipment								Aggregated Items Title: Command Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Telecomm Station Det Rota Spain ^{(24)(t)}																				
17.7) BCO Infrastructure Replacement (Cable & Equipment) NAVIFOR ^{(25)(t)}	A		387.667	12	4.652	412.250	4	1.649	320.250	4	1.281	4,875.000	4	19.500	-	-	-	4,875.000	4	19.500
17.8) INFOCON 3 - Security Compliance NAVIFOR ^{(26)(t)}	A		764.250	4	3.057	702.750	4	2.811	311.000	3	0.933	315.667	3	0.947	-	-	-	315.667	3	0.947
17.9) Electrical Power Systems NAVIFOR ^{(27)(t)}	A		694.250	4	2.777	1,411.000	1	1.411	1,280.000	1	1.280	10,273.000	1	10.273	-	-	-	10,273.000	1	10.273
17.10) Defense Red Switch Network Replacement NAVIFOR ^{(28)(t)}	A		1,259.000	6	7.554	1,333.000	1	1.333	1,084.000	1	1.084	1,109.000	1	1.109	-	-	-	1,109.000	1	1.109
17.11) C4I for NAVEUR ^(t)	A		-	-	-	3,000.000	1	3.000	-	-	-	-	-	-	-	-	-	-	-	-
17.12) Navy/Space Aggressor Support NAVIFOR ^{(29)(t)}	A		-	-	-	-	-	-	1,166.600	3	3.500	-	-	-	-	-	-	-	-	-
Subtotal: 17) United States Fleet Forces Command			-	-	21.011	-	-	10.204	-	-	12.511	-	-	41.918	-	-	-	-	-	41.918
18) Deployable Deployable Mission Support Systems (DMSS) Kits																				
18.1) Deployable Mission Support Systems (DMSS) ^{(30)(t)}	A		-	-	-	1,420.000	5	7.100	995.615	13	12.943	-	-	-	-	-	-	-	-	-
Subtotal: 18) Deployable Deployable Mission Support Systems (DMSS) Kits			-	-	0.000	-	-	7.100	-	-	12.943	-	-	-	-	-	-	-	-	-
19) Briefing Displaying System (BDS) Upgrade - NAVCENT																				
19.1) Briefing Display System Upgrade ⁽³¹⁾	A		8,662.000	1	8.662	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 19) Briefing Displaying System (BDS) Upgrade - NAVCENT			-	-	8.662	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20) European Deterrence Initiative - NAVEUR																				
20.1) European Deterrence Initiative ^(t)	A		-	-	-	-	-	-	-	-	-	-	-	0.000	2,800.000	1	2.800	2,800.000	1	2.800
Subtotal: 20) European Deterrence Initiative - NAVEUR			-	-	0.000	-	-	-	-	-	-	-	-	0.000	-	-	2.800	-	-	2.800
21) Undersea Warfare Decision Support System - CNE																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2								P-1 Line Item Number / Title: 8106 / Command Support Equipment							Aggregated Items Title: Command Support Equipment				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
21.1) Hardware and Software	A		1,500.000	1	1.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.2) Production Engineering Support	A		400.000	1	0.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21.3) Maritime Operations Center (MOC) Server Room ^(†)	A		-	-	-	13,530.000	1	13.530	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 21) Undersea Warfare Decision Support System - CNE			-	-	1.900	-	-	13.530	-	-	-	-	-	-	-	-	-	-	-	-
22) Navy Enterprise Tactical Command and Control (NETC2)																				
22.1) Briefing Display System (BDS) Delta ^(†)	A		-	-	-	3,120.000	1	3.120	-	-	-	-	-	-	-	-	-	-	-	-
22.2) Navy Enterprise Tactical Command and Control (NETC2) ^(†)	A		-	-	-	2,500.000	2	5.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 22) Navy Enterprise Tactical Command and Control (NETC2)			-	-	0.000	-	-	8.120	-	-	-	-	-	-	-	-	-	-	-	-
23) U.S. Pacific Fleet																				
23.1) Canopy Shelters	A		2,773.667	3	8.321	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23.2) Tension Fabric Shelters ^(†)	A		2,150.000	2	4.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 23) U.S. Pacific Fleet			-	-	12.621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24) Authoritative Data Environment																				
24.1) ADE ⁽³²⁾	A		-	-	-	-	-	-	-	-	-	-	-	1.464	-	-	-	-	-	1.464
Subtotal: 24) Authoritative Data Environment			-	-	0.000	-	-	-	-	-	-	-	-	1.464	-	-	-	-	-	1.464
25) Aviation Support Equipment																				
25.1) Tension Fabric Shelters ^(†)	A		-	-	-	3,780.000	1	3.780	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 25) Aviation Support Equipment			-	-	0.000	-	-	3.780	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	165.391	-	-	78.406	-	-	61.577	-	-	66.102	-	-	2.800	-	-	68.902

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⁾ FY20 funding requirement is to support systems (IT Program and Technical Support) to meet cyber security requirements.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8106 / Command Support Equipment	Aggregated Items Title: Command Support Equipment
(2) Funding will support for the STARS to SABRS (S2S) transition hardware and software (HW/SW) required for supporting DON SABRS/SMARTS. This funding begins to address the many HW/SW requirements to transition the 11 BSOs migrating over to SABRS. (3) Decrease from FY19 to FY20 due to less storage devices required. (4) Decrease from FY19 to FY20 due to no need for high speed scanners FY20. (5) The funding profile for peripheral items will vary each year based on what IT and supporting infrastructure items require refresh. (6) Data Center Consolidation (DCC) funding: Funds realigned from BSO39 for Data Center and Application Optimization, provide sustainment of data center hardware, software, and licenses for established Component Enterprise Data Centers (CEDCs) and other approved hosting locations as part of the Department of Defense's Information Technology efficiency for the Manpower, Training, and Education (MPT&E) Data Center footprint. The funding enables the MPT&E to implement the Navy Data Center and Commercial Cloud Resourcing Memorandum of Agreement. Funds application hosting costs, continues with consolidation and application migration efforts, and ensure that systems are modernized to sustain security requirements of Navy information and data residing within applications and data centers. The increase is due to a new start in FY2020. (7) MPTE Core Transformation Procurement of PeopleSoft 9.2 licenses in support of NP2 consolidation (8) FY20 funding is required for procurement of very large enterprise-class servers and large enterprise Storage Area Networks that are prescribed to be replaced on a five year schedule, as well as commodity servers and low-end storage that should be replaced on a three year cycle. The Navy ERP system has gained more than 30% utilization across multiple databases resulting in substantial growth in data storage and retention since inception. Data storage has continued annual growth resulting in more than 60TB of data driving the requirement for the OPN funding. Additionally, several infrastructure components need to be refreshed because they are nearing end of life and are subject to higher failure rates causing reliability concerns in infrastructure performance. Procurement (both hardware and software) is necessary for disaster recovery, prevention of failure rates associated with aging storage arrays, and to maintain compliance, supportability, and cyber-posture of our infrastructure. (9) FY20 Procurement funds will be used for additional Oracle licensing to bring the current RPP/RFP software to a production level: User Productivity Kit (UPK), Financials, GRC, Integration Hub, etc. (10) Increase from FY19 to FY20 required for procurement of initial user licenses for Release 1 of ePS. Under Limited Deployment 310 critical user licenses and 620 non-critical user licenses were procured. With Release 1, the program is adding 3644 critical users and 7658 non-critical user licenses. License costs are based on a per seat cost and are critical in deploying ePS to users from NAVSEA, NAVAIR, SPAWAR, ONR, MSC, and USMC commands. (11) The Maritime Operations Center (MOC) delivers global maritime capabilities at the Operational level of War throughout the full range of military operations. The goal end state is to achieve globally-networked operational level Numbered Fleet and Navy Component Commander, Joint Force Maritime Component Commander and Staff and Joint Task Force capable commands, based on Joint Capability Areas and Joint Mission-Essential Tasks through focused acquisition of standard and common suites of systems from the existing base of Navy, Army, Air Force and joint Programs of Record (POR) and non-PORs. (12) Quantity listed for Maritime Operations Command (MOC) Ashore represents shore sites. In any given year, MOC procures different equipment sets for the current build, as well as upgrades for prior builds/spirals, causing the unit cost per site to vary between fiscal years. (13) Quantity listed for MOC Afloat represents the only two ships that the MOC is on: the USS Mt. Whitney and the USS Blue Ridge. In any given year, MOC procures different equipment sets for the current build, as well as upgrades for prior builds/spirals, causing the unit cost per site to vary between fiscal years. (14) Quantities are based on regions. Regions are prioritized as follows: (1) Fleet concentration areas and mission assurance (cyber security) - MIDLANT (FY16 1st article test), Hawaii, South West, Marianas, South East (2) OCONUS - EURAFSWA, Far East (3) Upgrade (backfit) existing Smart Grids - NDW, Northwest (15) SG Software Procure & Install: Analytics and control software licenses, installation, testing, and functional configuration. (16) Common Operating Picture & Data Configuration: Develop and test Navy configuration, COP for Building/Utility Control Systems, and configuration of AMI data for included buildings (17) Hardware - Middleware panels for Data Normalization: Hardware procurement for panels supporting data normalization and cybersecurity (18) Aggregate & Configure Bldg & Utility Data to Cyber Secured Network: Securing and connection of Building/Utility Control Systems to monitoring, control, and analytics. Cyber secure the Smart Grid hardware/software product within the Navy's cyber secure hosting environment IAW Risk Management Framework (RMF) policy, and integrate smart meters, building & utility control system data, into a regionally managed consolidated data set. This 1st time digital capability provides Smart Grid operators transparency of equipment status across a region to centrally report, manage and control energy, that results in cost savings, utility resilience, and cyber mitigation. (19) Install Advanced Analytics for Meter Consumption Data: Import and configure advanced meter data for included buildings for advanced analytics (20) SABRS Transition Support and Modernize FIS: supports NAVFAC's transition of the Navy's General Fund accounting system STARS to Standard Accounting Budgeting & Reporting System (SABRS). upgrade of FIS 2.0, NAVFAC's facilities management system of record, from an application that is supported by a dated mainframe computer system into an updated FIS 3.0 (21) Funding provided for Command, Control, Communications, Computers, Collaboration, and Intelligence (C5I) at communications center NAS Sigonella. The existing NAVCOMTELSTA Sicily currently located in Building 585 is no longer suitable for the current and known future missions. The existing NAVCOMTELSTA Sicily facility does not have a Sensitive Compartmented Information Facility (SCIF), which makes users less efficient when they must process TS information. The new P-130 facility will provide increased mission efficiency and the flexibility to accommodate future missions. (22) Funding to support the planning, design, relocation, procurement and installation of mission related command, control, communications, computers and intelligence/Information Technology (C4I/IT) equipment to new Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMSLANT) Facility. It will strengthen the Navy's ability to regionally manage networks and telecommunications, effectively respond to Navy Component and Fleet Commanders, contribute to transparent shared situational awareness (SA), track and characterize cyberspace threats and their relative impact on network operations, monitor and defend the security posture of the networks through distributed defensive cyberspace operations and enable Commander, Tenth Fleet (COMTENTHFLT) to standardize Command and Control (C2) of Navy networks. (23) JRSS Funds to support uninterruptible power supply (UPS) systems and heating, ventilation and air conditioning (HVAC) at NCTS Guam Bldg 112 and NCTAMS PAC 409.		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8106 / Command Support Equipment	Aggregated Items Title: Command Support Equipment
⁽²⁴⁾ Funding to support the planning, design, relocation, procurement and installation of mission related Command, Control, Communications, Computers, and Intelligence (C4I) and Information Technology equipment to the new Naval Computer and Telecommunications Station LANT, Det Rota Spain. Naval Station Rota is responsible for providing secure and reliable classified and unclassified voice, messaging, video and data telecommunication to more than 10,000 users including Forward Deployed Naval Forces. Communication outage risks are attributed to degraded facility conditions and flooding. Without investment, the Navy risks communication outages. Funds will specifically support: DISA Transport (FY20), Electronic Security Sys (ESS) (FY20), C4I Distribution Cabling (FY20), Joint Worldwide Intelligence Communications, System (JWICS) (FY20-22)and Visual/Collaboration Sys (VCS) (FY20). ⁽²⁵⁾ FY19 to FY20 increase in unit cost due to the FY19 unit cost was for immediate repairs of Base Communication cables/equipment/cooper and/or fiber while FY20 unit costs are support the new/upgraded Base Communication Office (BCO) Outside cable plant infrastructure upgrades. ⁽²⁶⁾ Hardware/software for enhancing analytical capacity. Host Based Security System mission system to provide warning to mitigate host level malicious activity. ⁽²⁷⁾ FY19 to FY20 increase in unit cost due the overhaul, equipment procurement and installation. ⁽²⁸⁾ The funding will continue to support Defense Red Switch Networks. ⁽²⁹⁾ FY19 funds were used to procure three training systems to be used by the Navy Space Adversary Team (N-SAT). This support will provide adversary space threat academics and opposition forces (OPFOR) space threat training via live replication during Fleet exercises. Supports Space Aggressor "teach" and live jamming events for CSG-4/CSG-15 integrated events. The USSF/CPF Fleet Training Continuum instruction directs the Navy to adopt an integrated training capability to train Navy forces to high-end threats in a contested environment. Requirement approved as part of Fleet Training Wholeness (2025) Live, Virtual, and Constructive (LVC). FY20 funds were not required. ⁽³⁰⁾ Starting in FY20, funds realigned to line item 8120. ⁽³¹⁾ The BDS is a battle space awareness platform that supports overseas operations and contingencies through a common operating picture for all Naval Forces (CONUS and OCONUS) and is consistent with the purpose and use of OCO funds. ⁽³²⁾ FY20 ADE funding will be used to procure the following centrally managed licenses: 1) Data Management Toolset (Informatica) 2) API Gateway Management Toolset (WSO2 and Run Time) 3) Analytic Toolset (R-Studio and additional tools requested by the stakeholders)		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8106 / Command Support Equipment					Aggregated Items: Command 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 (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) NCIS												
1.1) NCIS Data Modernization & Analytical Tools ^{(1)(f)}		2018 ⁽³³⁾	Carahsoft Technology Corporation / Reston, VA	C / TBD	NAVSUP	Apr 2018	May 2018	1	3,652.000	N	Jun 2018	Feb 2018
1.1) NCIS Data Modernization & Analytical Tools ^{(1)(f)}		2019 ⁽³⁴⁾	Carahsoft Technology Corporation / Reston, VA	C / TBD	NAVSUP	Apr 2019	May 2019	1	2,439.000	N	Jun 2019	Jan 2019
1.1) NCIS Data Modernization & Analytical Tools ^{(1)(f)}		2020	One Dell Way / Round Rock TX 78682	C / TBD	NAVSUP	Oct 2019	Oct 2019	1	1,779.000	N	Jun 2020	
2) Tech Refresh												
2.1) OCHR - Human Resource IT system ^(f)		2017	M2 Technology, Inc / UNKNOWN	C / TBD	FISC Philadelphia	Jun 2017	Jun 2017	1	520.000	N	Sep 2017	Mar 2017
2.1) OCHR - Human Resource IT system ^(f)		2018	M2 Technology, Inc / UNKNOWN	C / TBD	FISC Philadelphia	Jun 2018	Jun 2018	1	442.000	N	Jun 2018	Mar 2018
2.1) OCHR - Human Resource IT system ^(f)		2019	M2 Technology, Inc / UNKNOWN	C / TBD	FISC Philadelphia	Mar 2019	Mar 2019	1	446.000	N	Sep 2019	Mar 2019
2.2) FIP ^{(2)(f)}		2017	NAVSUP / Mechanicsburg, PA	C / TBD	NAVSUP	Oct 2016	Oct 2016	1	1,927.000	N	Oct 2017	Oct 2016
2.2) FIP ^{(2)(f)}		2018	NAVSUP / Mechanicsburg, PA	C / TBD	NAVSUP	Oct 2017	Oct 2017	1	2,690.000	N	Oct 2018	Oct 2017
2.2) FIP ^{(2)(f)}		2019	NAVSUP / Mechanicsburg, PA	C / TBD	NAVSUP	Oct 2018	Oct 2018	1	3,055.000	N	Oct 2019	Oct 2018
3) Insider Threat												
3.1) Hardware/Software License Procurement - HUB		2018	TBD / TBD	C / TBD	** NO PCO **	Aug 2019	Jan 2020	1	500.000	N	May 2019	
3.2) Hardware/Software License Procurement - UAM		2018	TBD / TBD	C / TBD	** NO PCO **	May 2019	Oct 2019	1	500.000	N	Feb 2019	
4) Electronic Military Personnel Record System (EMPRS)												
4.1) Selection Board Management HW SW		2017	TrueTandem, LLC / Unknown	C / FP	Unknown	Jun 2017	Jun 2017	22	6.000	N	Oct 2016	Jun 2017
4.1) Selection Board Management HW SW		2018	TrueTandem, LLC / Unknown	C / FFP	FISC Philadelphia	Sep 2018	Oct 2018	255	3.490	N	Oct 2018	Jul 2018
4.1) Selection Board Management HW SW		2019	TrueTandem, LLC / Unknown	C / TBD	FISC Philadelphia	Sep 2019	Oct 2019	92	3.110	N	Oct 2019	Jul 2019
4.1) Selection Board Management HW SW		2020	TrueTandem, LLC / Unknown	C / TBD	FISC Philadelphia	Sep 2020	Oct 2020	114	3.400	N	Jul 2020	Jul 2020
4.4) Network Devices		2020	Unknown / Unknown	C / TBD	FISC Philadelphia	Sep 2020	Oct 2020	3	4.330	N	Oct 2020	Jul 2020
4.5) Storage Devices ⁽³⁾		2018	SUN / NSA Mid South, TN	C / FFP	FISC Philadelphia	Sep 2018	Oct 2018	52	19.000	N	Oct 2018	Jul 2018
4.5) Storage Devices ⁽³⁾		2019	SUN / NSA Mid South, TN	C / FFP	FISC Philadelphia	Sep 2019	Oct 2019	50	19.000	N	Oct 2019	Jul 2019
4.5) Storage Devices ⁽³⁾		2020	SUN / NSA Mid South, TN	C / TBD	FISC Philadelphia	Sep 2020	Oct 2020	35	19.230	N	Oct 2020	Jul 2020

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8106 / Command Support Equipment					Aggregated Items: Command 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 (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.7) Scanners High Speed ⁽⁴⁾		2019	Kodak / ,NSA Mid South, TN	C / TBD	FISC Philadelphia	Sep 2019	Oct 2019	7	63.860	N	Jul 2019	Jul 2019
4.14) Data Center Consolidation (DCC) ⁽⁶⁾		2020	UNKNOWN / Unknown	C / TBD	** NO PCO **	Jul 2020	Jul 2020	1	1,500.000	N	Sep 2020	
7) MPTE Core Transformation												
7.1) MPTE Core Transformation PeopleSoft Licenses ⁽⁷⁾		2017 ⁽³⁵⁾	GSA / GSA	SS / FP	SPAWAR	Sep 2017	Dec 2017	100	29.000	N	Jun 2018	Jun 2017
8) Insider Threat - SPAWAR												
8.1) Operational Spares		2019	SSC Pacific / San Diego, CA	WR	** NO PCO **	Jun 2019	Nov 2019	1	346.000	N	Jan 2019	
8.2) Hardware/Software Procurement		2019	SSC Pacific / San Diego, CA	WR	** NO PCO **	Jun 2019	Nov 2019	1	903.000	N	Jan 2019	
8.3) ONI Refresh Hardware/ Software/Install		2019	SSC Pacific / San Diego, CA	WR	** NO PCO **	Mar 2019	Sep 2019	1	458.000	N	Oct 2018	
12) Maritime Operations Center (MOC) Procurement												
12.1) Baseline Equipment - Ashore (12)		2018	SSC Atlantic/Pacific/MDA / Various	WR	SSC PAC/LANT/ MDASSC PAC/LANT/MDA	Mar 2018	Jun 2018	7	230.143	Y		
12.1) Baseline Equipment - Ashore (12)		2019	SSC Atlantic/Pacific/MDA / Various	WR	SSC PAC/LANT/MDA	Mar 2019	Mar 2019	7	236.857	Y		
12.1) Baseline Equipment - Ashore (12)		2020	SSC Atlantic/Pacific/MDA / Various	WR	SSC PAC/LANT/MDA	Mar 2020	Mar 2020	7	181.000	Y		
12.2) Baseline Equipment - Afloat (13)		2018	SSC Atlantic/Pacific/MDA / Various	C / FFP	SSC PAC/LANT/MDA	Mar 2018	Jun 2018	2	227.150	Y		
12.2) Baseline Equipment - Afloat (13)		2019	SSC Atlantic/Pacific/MDA / Various	C / CPFF	SSC PAC/LANT/MDA	Mar 2019	Jun 2019	2	233.500	Y		
12.2) Baseline Equipment - Afloat (13)		2020	SSC Atlantic/Pacific/MDA / Various	C / CPFF	SSC PAC/LANT/MDA	Mar 2020	Jun 2020	2	236.610	Y		
16) CNIC												
16.1) SG Software Procure & Install (15)		2018 ⁽³⁶⁾	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2017	Oct 2017	2	1,718.000	N		
16.1) SG Software Procure & Install (15)		2019 ⁽³⁷⁾	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2018	Oct 2018	2	1,265.500	N		
16.2) Common Operating Picture & Data Configuration ⁽¹⁶⁾		2018	NAVFAC LANT ⁽³⁸⁾ / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2017	Oct 2017	2	766.000	N		
16.2) Common Operating Picture & Data Configuration ⁽¹⁶⁾		2019	NAVFAC LANT ⁽³⁸⁾ / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2018	Oct 2018	2	564.500	N		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8106 / Command Support Equipment					Aggregated Items: Command 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 (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
16.3) Hardware - Middleware panels for Data Normalization ⁽¹⁷⁾		2018	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2017	Oct 2017	2	165.000	N		
16.3) Hardware - Middleware panels for Data Normalization ⁽¹⁷⁾		2019	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2018	Oct 2018	2	161.000	N		
16.4) Aggregate & Configure Bldg & Utility data to Cyber Secured Network ^{(18)(t)}		2018	TBD / TBD	TBD	** NO PCO **	Mar 2018	Aug 2018	2	4,082.000	N		
16.4) Aggregate & Configure Bldg & Utility data to Cyber Secured Network ^{(18)(t)}		2019	TBD / TBD	TBD	** NO PCO **	Mar 2019	Aug 2019	2	3,006.500	N		
16.5) Install Advanced Analytics for Meter Consumption Data ⁽¹⁹⁾		2018	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2017	Oct 2017	2	149.000	N		
16.5) Install Advanced Analytics for Meter Consumption Data ⁽¹⁹⁾		2019	NAVFAC LANT / Norfolk, VA	C / CPFF	** NO PCO **	Oct 2018	Oct 2018	2	110.000	N		
17) United States Fleet Forces Command												
17.1) C4I for P-013 Wahiawa		2019	NAVFAC EXWC / PORT HUENEME, CA	C / TBD	** NO PCO **	Jan 2019	Jan 2019	1	223.000	N	Nov 2018	
17.1) C4I for P-013 Wahiawa		2020	NAVFAC EXWC / PORT HUENEME, CA	C / TBD	** NO PCO **	Jan 2020	Jan 2020	1	195.000	N	Nov 2019	
17.2) NAS Sigonella - Comms Center ⁽²¹⁾		2020	NAVFAC LANT / Norfolk, VA	TBD	Norfolk	Dec 2019	Dec 2019	1	2,840.000	N	Oct 2019	
17.4) C4I/IT Equipment Naval Computer and Telecomm Atlantic ⁽²²⁾		2019	SPAWAR / Atlantic	C / FFP	SPAWAR SSC Atlantic	Jan 2019	Jan 2019	1	2,323.000	N	Feb 2019	
17.4) C4I/IT Equipment Naval Computer and Telecomm Atlantic ⁽²²⁾		2020	SPAWAR / Atlantic	C / FFP	SPAWAR SSC Atlantic	Oct 2019	Oct 2019	1	4,900.000	N	Nov 2019	
17.6) C4I Equipment Naval Computer and Telecomm Station Det Rota Spain ⁽²⁴⁾		2019	SPAWAR / Atlantic	C / FFP	** NO PCO **	Jan 2019	Feb 2019	1	1,887.000	N	Feb 2019	
17.7) BCO Infrastructure Replacement (Cable & Equipment) NAVIFOR ⁽²⁵⁾		2018	SPAWAR / UNKNOWN	C / FP	SPAWAR	Oct 2017	Oct 2017	4	412.250	Y		
17.7) BCO Infrastructure Replacement (Cable & Equipment) NAVIFOR ⁽²⁵⁾		2019	SPAWAR / UNKNOWN	C / FP	SPAWAR	Oct 2018	Oct 2018	4	320.250	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8106 / Command Support Equipment					Aggregated Items: Command 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 (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
17.7) BCO Infrastructure Replacement (Cable & Equipment) NAVIFOR ⁽²⁵⁾		2020	SPAWAR / UNKNOWN	C / FP	SPAWAR	Oct 2019	Oct 2019	4	4,875.000	Y		
17.8) INFOCON 3 - Security Compliance NAVIFOR ⁽²⁶⁾		2018	SPAWAR / Charleston	C / CPAF	SPAWAR	Apr 2018	Apr 2018	4	702.750	Y		
17.8) INFOCON 3 - Security Compliance NAVIFOR ⁽²⁶⁾		2019	SPAWAR / Charleston	C / CPAF	SPAWAR	Apr 2019	Apr 2019	3	311.000	Y		
17.8) INFOCON 3 - Security Compliance NAVIFOR ⁽²⁶⁾		2020	SPAWAR / Charleston	C / TBD	** NO PCO **	Apr 2020	Apr 2020	3	315.667	N	Apr 2020	
17.9) Electrical Power Systems NAVIFOR ⁽²⁷⁾		2018	NAVFAC EXWC / PORT HUENEME, CA	C / FPAF	** NO PCO **	Apr 2018	Apr 2018	1	1,411.000	Y		
17.9) Electrical Power Systems NAVIFOR ⁽²⁷⁾		2019	NAVFAC EXWC / PORT HUENEME, CA	C / FPAF	** NO PCO **	Apr 2019	Apr 2019	1	1,280.000	N	Apr 2019	
17.9) Electrical Power Systems NAVIFOR ⁽²⁷⁾		2020	NAVFAC EXWC / PORT HUENEME, CA	C / FPAF	** NO PCO **	Apr 2020	Apr 2020	1	10,273.000	N	Apr 2020	
17.10) Defense Red Switch Network Replacement NAVIFOR ⁽²⁸⁾		2018	Raytheon / Hill AFB, UT	C / FP	** NO PCO **	Apr 2018	Apr 2018	1	1,333.000	Y		
17.10) Defense Red Switch Network Replacement NAVIFOR ⁽²⁸⁾		2019	Raytheon / Hill AFB, UT	C / FP	** NO PCO **	Apr 2019	Apr 2019	1	1,084.000	Y		
17.10) Defense Red Switch Network Replacement NAVIFOR ⁽²⁸⁾		2020	Raytheon / Hill AFB, UT	C / FP	** NO PCO **	Apr 2020	Apr 2020	1	1,109.000	Y		
17.11) C4I for NAVEUR		2018	SPAWAR / San Diego, CA	Reqn	** NO PCO **	Oct 2018	Dec 2018	1	3,000.000	N	Dec 2018	
17.12) Navy/Space Aggressor Support NAVIFOR ⁽²⁹⁾		2019	SPAWAR / SPAWAR	C / FFP	** NO PCO **	Mar 2019	Mar 2019	3	1,166.600	N	Mar 2019	
18) Deployable Deployable Mission Support Systems (DMSS) Kits												
18.1) Deployable Mission Support Systems (DMSS) ^{(30)(†)}		2018	SPAWAR / San Diego, CA	C / FFP	SPAWAR SSC Pacific	Oct 2018	Dec 2018	5	1,420.000	Y		Jul 2018
18.1) Deployable Mission Support Systems (DMSS) ^{(30)(†)}		2019	SPAWAR / San Diego, CA	C / FFP	SPAWAR SSC Pacific	Mar 2019	May 2019	13	995.615	N	Jul 2018	Jan 2019
20) European Deterrence Initiative - NAVEUR												
20.1) European Deterrence Initiative	✓	2020	TBD / TBD	C / TBD	** NO PCO **	Oct 2019	Oct 2019	1	2,800.000	N		
21) Undersea Warfare Decision Support System - CNE												

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8106 / Command Support Equipment					Aggregated Items: Command 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 (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
21.3) Maritime Operations Center (MOC) Server Room	✓	2018	Raytheon / Hill AFB, UT	C / FFP	** NO PCO **	Jan 2018	Jan 2018	1	13,530.000	N		
22) Navy Enterprise Tactical Command and Control (NETC2)												
22.1) Briefing Display System (BDS) Delta	✓	2018	Raytheon / Hill AFB, UT	C / FFP	** NO PCO **	Jan 2018	Jan 2018	1	3,120.000	N		
22.2) Navy Enterprise Tactical Command and Control (NETC2)	✓	2018	Raytheon / Hill AFB, UT	C / FFP	** NO PCO **	Jan 2018	Jan 2018	2	2,500.000	N		
23) U.S. Pacific Fleet												
23.2) Tension Fabric Shelters		2017	TBD / TBD	C / TBD	DLA Troop Support, Philadelphia, PA	Dec 2017	Mar 2018	2	2,150.000	Y		Nov 2017
25) Aviation Support Equipment												
25.1) Tension Fabric Shelters		2018	Federal Resources Supply Company / Stevensville, MD	C / FP	DLA Troop Support, Philadelphia, PA	Jul 2018	Jul 2018	1	3,780.000	Y		Jun 2018

(†) indicates the presence of a P-21

Footnotes:

(33) CISCO IP routers and switches

(34) VTC infrastructure

(35) Task Order was awarded procure PeopleSoft licenses

(36) Both DTIC and NAVAIR will be used

(37) Both DTIC and NAVAIR will be used

(38) NAVFAC, DTIC, NAVAIR, and KBR Wyle share responsibility in the acceptance and reimbursement of funds in addition to performing the work

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Exhibit P-21, Production Schedule: PB 2020 Navy																				Date: March 2019																	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2										P-1 Line Item Number / Title: 8106 / Command Support Equipment										Aggregated Items: Command Support Equipment																	
Items (Units in Each)							Fiscal Year 2019										Fiscal Year 2020										B A L A N C E										
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019										Calendar Year 2020																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P						
1) NCIS																																					
1.1) NCIS Data Modernization & Analytical Tools ⁽¹⁾																																					
Prior Years Deliveries: 6																																					
	8	2018	NAVY		1	1	0																					0									
	8	2019	NAVY		1	0	1											A -	1											0							
	7	2020	NAVY		1	0	1											A1										0									
2) Tech Refresh																																					
2.1) OCHR - Human Resource IT system																																					
Prior Years Deliveries: 6																																					
	9	2017	NAVY		1	1	0																					0									
	9	2018	NAVY		1	1	0																					0									
	9	2019	NAVY		1	0	1											A1											0								
2.2) FIP ⁽²⁾																																					
Prior Years Deliveries: 2																																					
	10	2017	NAVY		1	1	0																					0									
	10	2018	NAVY		1	1	0																					0									
	10	2019	NAVY		1	0	1	A1																					0								
16) CNIC																																					
16.4) Aggregate & Configure Bldg & Utility data to Cyber Secured Network ⁽¹⁸⁾																																					
Prior Years Deliveries: 2																																					
	11	2018	NAVY		2	1	1	-	1																					0							
	11	2019	NAVY		2	0	2											A -	-	-	-	-	1	-	-	1											0
18) Deployable Deployable Mission Support Systems (DMSS) Kits																																					
18.1) Deployable Mission Support Systems (DMSS) ⁽³⁰⁾																																					
	12	2018	NAVY		5	0	5	A -	-	5																					0						
	12	2019	NAVY		13	0	13											A -	-	13											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 2020 Navy								Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2					P-1 Line Item Number / Title: 8106 / Command Support Equipment				Aggregated Items: Command Support Equipment		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2020	1-8-5 For 2020	MAX For 2020	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	One Dell Way - Round Rock TX 78682			TBD	0	0	1	1	0	0	0	0
2	Carahsoft Technology Corporation - Reston, VA			TBD	0	2	1	3	0	0	0	0
3	M2 Technology, Inc - UNKNOWN			TBD	0	8	2	10	0	0	0	0
4	NAVSUP - Mechanicsburg, PA			TBD	3	0	0	0	0	0	0	0
5	TBD - TBD			TBD	0	0	0	0	0	0	0	0
6	SPAWAR - San Diego, CA	13	15	20	4	3	2	5	4	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-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8109 / Medical 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	51.173	22.483	16.852	3.633	1.794	5.427	5.356	5.580	5.291	5.396	17.603	135.16
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	51.173	22.483	16.852	3.633	1.794	5.427	5.356	5.580	5.291	5.396	17.603	135.16
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	51.173	22.483	16.852	3.633	1.794	5.427	5.356	5.580	5.291	5.396	17.603	135.16
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
The FY 2020 funding request was reduced by \$0.390 million to account for the availability of prior year execution balances.												
The Medical Support Equipment (MSE) program funds new medical capability and new technology on naval operating ships. Medical Support Equipment configuration management, spares, technical manuals and installations are also funded through this line item. Requirements are determined through Commander, U.S. Fleet Forces Command and Commander, U.S. Pacific Fleet, and procurement is managed by Naval Medical Logistics Command (NMLC). Funding is used to procure modifications or additions to the ships' allowance items that are identified within the Authorized Medical Allowance List (AMAL) and Authorized Dental Allowance List (ADAL). AMALs and ADALs are unique to specific classes or types of ship or Commands to fulfill its intended health care mission. AMAL and ADAL allowances are approved by the respective Fleet Type Commander (TYCOM) Force Surgeon with concurrence by the Commander, Fleet Forces Command Surgeon. The initiation of a change to the current depth (allowance amount) of material or addition of a new allowance for an item(s) within an AMAL or ADAL results from either a change in the scope of care a specific ship must provide in accordance with its Required Operational Capability (ROC) and Projected Operational Environment (POE) and/or a change in the standard of medical care the assigned personnel are expected to provide. Changes to AMAL and ADAL requirements are determined through Individual Allowance Change Requests, as a result of reviews chaired by TYCOM Fleet Surgeons.												
The Fleet Hospital/Expeditionary Medical Facility (EMF) program funds critical medical equipment to support and provide theater hospitalization capabilities (commonly referred to as Role III Care) as defined in Joint Publication 4-02 Health Services Support and the EMF ROC and POE. This funding is used to procure investment equipment that supports the standard of care for Casualty Management as determined by the DoD Combat Trauma Surgery Committee.												
This line item also includes funding for the Hospital Ships (USNS COMFORT (Fleet Forces Command) and USNS MERCY (PACFLT)) major systems replacement. The program is part of the standardization and life cycle management of the MERCY Class Hospital ships sustainability plan.												
Funds in this line item will be used to procure medical equipment from the AMAL/ADAL, and for major systems replacement, including:												
Direct Radiology System, and CAD CAM Milling Machine (Computer Aided Design and Computer Aided Manufacturing).												
Computed Axial Tomography (CAT) Scan system; funding will cover one (1) unit per prepositioned Expeditionary Medical Facility.												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8109 / Medical 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		
Digital X-Ray Shelters; funding will cover one (1) Digital X-Ray Shelter per prepositioned Expeditionary Medical Facility to provide higher resolution diagnostic images, which provide digital storage capability, and alleviates the need for chemical processors.		
[P40A / Expeditionary Medical Unit (EMU) Recapitalization]: Electrosurgical Unit, Monopolar/Bipolar]: Procure Electrosurgical Unit (ESU) (with Test equipment, Operators Training, and repair and maintenance training). ESU's is a full-featured electrosurgical system that provides electrosurgical cutting and coagulation, bipolar functionality, and vessel sealing during surgical procedures.		
[P40A / Computerized Axial Tomography (CAT) Scan Replacement]: Funding provided for the procurement and installation of a Computerized Axial Tomography (CAT) Scan for the USNS COMFORT. The CAT scan is an x-ray procedure that combines many x-ray images with the aid of a computer to generate cross-sectional views and, if needed, three-dimensional images of the internal organs and structures of the body. It is used to define normal and abnormal structures in the body and/or assist in procedures by helping to accurately guide the placement of instruments or treatments. This equipment is required in support of the hospital ship mission and to provide a similar standard of care on the hospital ships to what a patient would receive in other Navy Medical Treatment Facilities (fixed or expeditionary).		
[P40A / Rad Fluoro Replace w/Wireless Digital Imaging Option]: Procure and install Radiographic Fluoroscopy (R/F) Replacement System with wireless digital radiology imaging option for USNS COMFORT. The system provides digital storage capability of images and alleviates the need for chemical processors. R/F systems are used for diagnostic radiographic and fluoroscopic examinations. Most allow spot filming of an image to produce an x-ray film for later detailed study including those that use contrast media such as gastrointestinal or cardio studies.		
[P40A / Computerized Axial Tomography (CAT) Scanner]: FY20 funds are for the procurement and installation of a Computerized Tomography (CAT) Scan for Expeditionary Medical Facility (EMF) Kandahar, Afghanistan. This equipment is required to support the Expeditionary Medical Facility (EMF) Kandahar and to ensure patients continue to receive the U.S. standard of care.		
[P40A / Infusion Pump, Multi-therapy]: Infusion Pump, Multi-therapy Infusion: Funding provides Multi-therapy Infusion pumps for the USNS MERCY, and are used to deliver agents from syringes or collapsible bags and are small enough to be worn or carried by patients. They are used on patients that require repeated or continuous infusions.		
[P40A / Radiographic Fluoroscopy w/Wireless Digital Imaging Option]: Radiographic Fluoroscopy Replacement with Wireless Digital Imaging Option (MLC): Procure and install Radiographic Fluoroscopy Replacement System with wireless digital radiology imaging option for USNS MERCY. The system is used for diagnostic radiographic and fluoroscopic examinations, and provides digital storage capability of images and alleviates the need for chemical processors.		
[P40A / Ultrasonic Scanning System, Portable]: Portable ultrasounds will be used about the USNS MERCY. Ultrasound provides images from high frequency sound waves to allow a doctor to see problems with organs, blood vessels, and tissues without the need for incisions. It uses no radiation and it is used extensively in hospitals in various departments.		
[P40A / Ultrasonic Scanning System, Fixed Advanced]: Fixed, Advanced (4 dimensional) ultrasounds will be placed in two radiology rooms aboard the USNS MERCY. Ultrasound provides images from high frequency sound waves to allow a doctor to see problems with organs, blood vessels, and tissues without the need for incisions. It uses no radiation and it is used extensively in hospitals in various departments.		
[P40A / Computerized Axial Tomography (CAT) Scan Replacement]: Computerized Axial Tomography(CAT) Scan Replacement (MLC): Funding provided for the procurement and installation of a Computerized Axial Tomography (CAT) Scan for the USNS MERCY. The CAT scan is an x-ray procedure that combines many x-ray images with the aid of a computer to generate cross-sectional views and, if needed, three-dimensional images of the internal organs and structures of the body.		
[P40A / O2N2 Plant]: Automation upgrade to modernize and make the existing O2N2 plant safer and simpler for the end user to operate while increasing overall reliability. The existing O2N2 producer is outfitted with a legacy control system that makes it difficult for the end user to timely produce liquid oxygen at required purity and volume. The automation will control plant parameters in a more precise manner allowing the plant to produce more high purity liquid oxygen per unit time. It will provide the end user with trending data of all plant parameters that will greatly assist with troubleshooting and diagnostics and will be in compliance with ISO 9001 standards. By allowing the plant to operate more efficiently, less time is needed to achieve purity reducing production run times which results in realized fuel and maintenance savings. This equipment is required in support of the hospital ship mission and to provide a similar standard of care on the hospital ships to what a patient would receive in other Navy Military Facilities (fixed or expeditionary).		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8109 / Medical 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										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Medical Support Equipment	P-5a			- / 51.173	- / 22.483	- / 16.852	- / 3.633	- / 1.794	- / 5.427
P-40	Total Gross/Weapon System Cost				- / 51.173	- / 22.483	- / 16.852	- / 3.633	- / 1.794	- / 5.427
*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: The FY 2020 funding request reflects 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. Funding required to support the healthcare readiness needs of Navy's operating forces. The Medical Support Equipment (MSE) program funds new medical capability and new technology on naval operating ships. Medical Support Equipment configuration management, spares, technical manuals and installations are also funded through this line item. PB20 specifically requests: 3 Direct Digital Radiology Systems and installation: The Direct Digital Radiology system is required to keep pace with the advanced nature of diagnostic imaging. It is a form of X-Ray imaging, in which digital X-ray sensors are used instead of traditional photographic film. This provides shipboard medical personnel the capability to digitally process, and store images thereby reducing film development time, maintenance, and storage costs. This also provides seamless integration of digital imaging with other systems used in Telemedicine, creating a more efficient process that bypasses chemical processing and provides the ability to digitally transfer and enhance images. Using an existing Defense Logistics Agency, Troop Support (DLA-TS) Indefinite Deliver Indefinite Quantity (IDIQ) Contract, NMLC will procure equipment from AGFA Health Care. The installation and related procurement plan for Direct Digital Radiology units reflects ship availability for installation periods (per data from the Navy Data Environment database). Equipment is procured in the year preceeding installation. Three units are planned to be procured every year starting in FY17 and continuing through the FYDP. OCO: Expeditionary Medical Unit (EMU) (\$5M) Request in support of Operation Inherent Resolve (OIR) in the amount of \$5M for recapitalization of a ten bed Expeditionary Medical Unit (EMU). This is an OCO reset requirement for a unit deployed in September 2016 that will undergo attrition while deployed and will not be recoverable into inventory. The purchase will allow the Department to maintain a capability of four EMU-10 units. EMU-10s provide care to patients in theater, including the following capabilities: two Operating Room Tables; four Intensive Care Unit (ICU) beds; six Acute Care Wing (ACW) beds; Base Tent Configuration; and completion of operational set up within 24 hours.										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2								P-1 Line Item Number / Title: 8109 / Medical Support Equipment							Aggregated Items Title: Medical Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) BUMED ⁽¹⁾																				
1.1) Direct Digital Radiology - Procurement ^{(2)(t)}	A		229,750.00	28	6.433	360,000.00	3	1.080	352,000.00	3	1.056	361,000.00	3	1.083	-	-	-	361,000.00	3	1.083
1.2) Direct Digital Radiology - Installation ^(t)	A		131,800.00	15	1.977	212,000.00	3	0.636	205,000.00	3	0.615	205,000.00	3	0.615	-	-	-	205,000.00	3	0.615
1.5) Computerized Axial Tomography (CAT) Scan Replacement ^{(3)(t)}	A		1,306K	2	2.613	1,347K	1	1.347	-	-	-	1,308K	1	1.308	-	-	-	1,308K	1	1.308
1.6) Digital X-Ray Shelters ^(t)	A		760,000.00	1	0.760	-	-	-	790,000.00	1	0.790	-	-	-	-	-	-	-	-	-
1.7) Logistics Support, Supplies & Equipment Maintenance	A		-	-	1.813	-	-	0.117	-	-	0.016	-	-	0.130	-	-	-	-	-	0.130
Subtotal: 1) BUMED			-	-	13.596	-	-	3.180	-	-	2.477	-	-	3.136	-	-	-	-	-	3.136
2) Expeditionary Medical Facilities																				
2.1) Expeditionary Medical Unit (EMU) Recapitalization ^{(4)(t)}	A		-	-	-	-	-	-	5,000K	1	5.000	-	-	0.000	264,000.00	1	0.264	264,000.00	1	0.264
2.3) EMF Tent Replacement ^{(5)(t)}	A		4,087K	1	4.087	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4) EMF Tent Replacement and Upgrades ^{(6)(t)}	A		7,872K	2	15.744	-	-	18.100	-	-	7.000	-	-	-	-	-	-	-	-	-
2.5) Roll 2 Enhanced COTS & New Capabilities ^{(7)(t)}	A		13,000K	1	13.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.6) Roll 2 Light Maneuver Operational Equipment Set ^{(8)(t)}	A		1,500K	2	3.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) Expeditionary Medical Facilities			-	-	35.831	-	-	18.100	-	-	12.000	-	-	0.000	-	-	0.264	-	-	0.264
3) U.S. Fleet Forces Command																				
3.1) Computerized Axial Tomography (CAT) Scan Replacement ^(t)	A		845,000.00	1	0.845	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) Rad Fluoro Replace w/Wireless Digital Imaging Option ^(t)	A		-	-	-	553,000.00	1	0.553	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2								P-1 Line Item Number / Title: 8109 / Medical Support Equipment							Aggregated Items Title: Medical Support Equipment				

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
3.3) Oxygen Nitrogen (O2N2) Automated Control System	A		901,000.00	1	0.901	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.4) Computerized Axial Tomography (CAT) Scanner ^{(9)(†)}	A		-	-	-	-	-	-	1,500K	1	1.500	-	-	0.000	1,530K	1	1.530	1,530K	1	1.530
Subtotal: 3) U.S. Fleet Forces Command			-	-	1.746	-	-	0.553	-	-	1.500	-	-	0.000	-	-	1.530	-	-	1.530
4) PACFLT																				
4.1) Infusion Pump, Multi-therapy ^(†)	A		-	-	-	2,166.67	300	0.650	-	-	-	-	-	-	-	-	-	-	-	-
4.2) Patient Isolation Wards ^(†)	A		-	-	-	-	-	-	875,000.00	1	0.875	-	-	-	-	-	-	-	-	-
4.3) Radiographic Fluoroscopy w/ Wireless Digital Imaging Option ^(†)	A		-	-	-	-	-	-	-	-	-	497,000.00	1	0.497	-	-	-	497,000.00	1	0.497
Subtotal: 4) PACFLT			-	-	0.000	-	-	0.650	-	-	0.875	-	-	0.497	-	-	-	-	-	0.497
Total			-	-	51.173	-	-	22.483	-	-	16.852	-	-	3.633	-	-	1.794	-	-	5.427

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⁾ (Note: Unit costs may not multiply exactly to total costs due to rounding). These funds are to be used to procure new technology requirements introduced to the FLEET during recent AMAL/ADAL review. Implementation focuses on L-decks and Carriers meeting Required Operational Capability in response to changes in standard of medical care provided to the ship's force by organic medical teams. Ships identified to be outfitted with these requirements as well as the required quantities are determined by FFC but may change prior to targeted implementation dates outlined in this submittal. Furthermore, the total equipment cost is expected to increase due to the likelihood of Ship Configuration Change factors and the proliferation of medical technology over 3 years prior to implementation.

⁽²⁾ The Direct Digital Radiology system is required to keep pace with the advanced nature of diagnostic imaging. It is a form of X-Ray imaging, in which digital X-ray sensors are used instead of traditional photographic film. This provides shipboard medical personnel the capability to digitally process, and store images thereby reducing film development time, maintenance, and storage costs. This also provides seamless integration of digital imaging with other systems used in Telemedicine, creating a more efficient process that bypasses chemical processing and provides the ability to digitally transfer and enhance images. Using an existing DLA-TS IDIQ Contract, NMLC will procure equipment from AGFA Health Care. The installation and related procurement plan for Direct Digital Radiology units reflects ship availability for installation periods (per data from the Navy Data Environment database). Equipment is procured in the year preceding installation. Units will be procured as follows: 3 in FY18; and 3 in FY19 and 3 per year for years 20-24.

⁽³⁾ The Computed Axial Tomography (CAT) Scan system is primarily used for medical imaging that supports or helps establish the diagnosis of a certain type of disease after more primitive diagnostic exams have been performed, like the X-ray and standard ultrasound. The CAT scan provides a critical diagnostic tool in the field of Expeditionary Medicine in that it can help in the emergent diagnosis of brain injuries, bleeding within body cavities, and bone malformations.

⁽⁴⁾ FY 2020 Procurement funding is planned for Civil Engineering Support Equipment (CESE) to be purchased which includes ATV M-Gators, Generators, and a Fuel Module Sixcon Tank for Expeditionary Medical Units (EMUs) in support of Operation Inherent Resolve (OIR). EMU-10s provide care to patients in theater, including the following capabilities: two Operating Room Tables; four Intensive Care Unit (ICU) beds; six Acute Care Wing (ACW) beds; Base Tent Configuration; Completion of operational set up within 24 hours. BUMED maintains a capability of four EMU-10 units. Impact if not funded: Total inventory of EMU-10 units would be reset from 4 to 3 total. As a result, BUMED would be unable to maintain operational requirements for the EMUs.

⁽⁵⁾ Part of the FY16 CSI funding of \$28M to cover procurement of EMF Tents and New Capabilities.

⁽⁶⁾ Part of the FY16 CSI funding of \$28M to cover procurement of EMF Tents and New Capabilities. FY17 CSI Funding in the amount of \$7,831K to cover EMF Air Beam Tents and purchase soft walled shelters and necessary accessories (floors, doors, vestibule frames). FY18 CSI funding in the amount of \$7,000K, and FY19 CSI Funding in the amount of \$7,000K to cover EMF Air Beam Tents and purchase soft walled shelters, necessary accessories (floors, doors, vestibule

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8109 / Medical Support Equipment	Aggregated Items Title: Medical Support Equipment
frames). FY18 Prior Approval Reprogramming in the amount of \$11,100K; \$6,000K to cover collective protection (COLPRO) system for one EMF Air Beam Tent, and \$5,100K to cover EMF Information Technology, electrical upgrades, and other accessories for full mission capability. ⁽⁷⁾ Part of the FY16 CSI funding of \$28M to cover procurement of EMF Tents and New Capabilities. ⁽⁸⁾ Part of the FY16 CSI funding of \$28M to cover procurement of EMF Tents and New Capabilities. ⁽⁹⁾ FY19 and FY20 CAT scanners will be located at Expeditionary Medical Facility (EMF) Kandahar, Afghanistan. FY21 CAT scanner will be located in Camp Lemonier, Djibouti (CLDJ).		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2			P-1 Line Item Number / Title: 8109 / Medical Support Equipment						Aggregated Items: Medical 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) BUMED												
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2013	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick, MD	May 2013	Sep 2013	7	294,192.43	Y		
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2014	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick, MD	May 2014	Sep 2014	14	142,455.57	Y		
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2015	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick, MD	May 2015	Sep 2015	4	340,000.00	Y		
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2017	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick, MD	May 2017	Sep 2017	3	340,000.00	Y		
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2018	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick, MD	Oct 2017	Oct 2017	3	360,000.00	Y		
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2019	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / TBD	NMLC - Fort Detrick MD	Oct 2018	Oct 2018	3	352,000.00	N		
1.1) Direct Digital Radiology - Procurement ⁽²⁾		2020	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / TBD	** NO PCO **	Oct 2019	Oct 2019	3	361,000.00	N		
1.2) Direct Digital Radiology - Installation		2013	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2013	Sep 2013	7	85,860.00	Y		
1.2) Direct Digital Radiology - Installation		2014	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2014	Sep 2014	1	85,860.00	Y		
1.2) Direct Digital Radiology - Installation		2015	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2015	Sep 2015	3	200,000.00	Y		
1.2) Direct Digital Radiology - Installation		2016	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2016	Sep 2016	1	66,000.00	Y		
1.2) Direct Digital Radiology - Installation		2017	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2017	Sep 2017	3	208,000.00	Y		
1.2) Direct Digital Radiology - Installation		2018	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2018	Sep 2018	3	212,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2			P-1 Line Item Number / Title: 8109 / Medical Support Equipment					Aggregated Items: Medical 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
1.2) Direct Digital Radiology - Installation		2019	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / TBD	NMLC - Fort Detrick MD	Oct 2018	Oct 2018	3	205,000.00	N		
1.2) Direct Digital Radiology - Installation		2020	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / TBD	** NO PCO **	Oct 2019	Oct 2019	3	205,000.00	N		
1.5) Computerized Axial Tomography (CAT) Scan Replacement ⁽³⁾		2014	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Aug 2014	Aug 2015	1	1,300K	Y		
1.5) Computerized Axial Tomography (CAT) Scan Replacement ⁽³⁾		2016	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	May 2016	May 2017	1	1,313K	Y		
1.5) Computerized Axial Tomography (CAT) Scan Replacement ⁽³⁾		2018	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / TBD	** NO PCO **	Oct 2017	Oct 2017	1	1,347K	N		
1.5) Computerized Axial Tomography (CAT) Scan Replacement ⁽³⁾		2020	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / TBD	** NO PCO **	Oct 2019	Oct 2019	1	1,308K	N		
1.6) Digital X-Ray Shelters		2017	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	May 2017	May 2018	1	760,000.00	Y		
1.6) Digital X-Ray Shelters		2019	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / TBD	** NO PCO **	Oct 2018	Oct 2018	1	790,000.00	N		
2) Expeditionary Medical Facilities												
2.1) Expeditionary Medical Unit (EMU) Recapitalization ⁽⁴⁾	✓	2019	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC/Defense Supply Center, Philadelphi	Jul 2019	Sep 2019	1	5,000K	N		
2.1) Expeditionary Medical Unit (EMU) Recapitalization ⁽⁴⁾	✓	2020	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / TBD	** NO PCO **	Oct 2019	Oct 2019	1	264,000.00	N		
2.3) EMF Tent Replacement ⁽⁵⁾		2016	Atlantic Diving Supply, Inc. / Virginia Beach, VA	C / FP	DLA- Philadelphia, PA	Jan 2017	Jun 2017	1	4,087K	N		
2.4) EMF Tent Replacement and Upgrades ⁽⁶⁾		2016	Atlantic Diving Supply, Inc. / Virginia Beach, VA	C / FP	DLA- Philadelphia, PA	Jul 2017	Oct 2017	2	3,956K	N		
2.5) Roll 2 Enhanced COTS & New Capabilities ⁽⁷⁾		2016	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Sep 2017	Dec 2017	1	13,000K	N		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8109 / Medical Support Equipment					Aggregated Items: Medical 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
2.6) Roll 2 Light Maneuver Operational Equipment Set ⁽⁸⁾		2016	Defense Logistics Agency, Troop Support, Construction & Equipment / Philadelphia, PA	C / FP	NMLC - Fort Detrick MD	Mar 2017	Jun 2017	2	1,500K	N		
3) U.S. Fleet Forces Command												
3.1) Computerized Axial Tomography (CAT) Scan Replacement		2017	General Electric Co. / Waukesha, WI 53188-1615	C / FFP	NMLC-Fort Detrick, MD	Jan 2017	Jan 2017	1	845,000.00	N		
3.2) Rad Fluoro Replace w/ Wireless Digital Imaging Option		2018	NAVMEDLOGCOM / FT DETRICK, MD	MIPR	** NO PCO **	Aug 2018	Aug 2018	1	553,000.00	N	Sep 2018	
3.4) Computerized Axial Tomography (CAT) Scanner ⁽⁹⁾	✓	2019	NAVMEDLOGCOM / FT DETRICK, MD	C / FFP	NMLC - Fort Detrick MD	Nov 2018	Apr 2019	1	1,500K	N		Aug 2018
3.4) Computerized Axial Tomography (CAT) Scanner ⁽⁹⁾	✓	2020	NAVMEDLOGCOM / FT DETRICK, MD	C / TBD	** NO PCO **	Oct 2019	Oct 2019	1	1,530K	N		
4) PACFLT												
4.1) Infusion Pump, Multi-therapy		2018	TBD / TBD	C / FP	NMLC - Fort Detrick MD	Dec 2019	Dec 2019	300	2,166.67	N	Aug 2018	Sep 2018
4.2) Patient Isolation Wards		2019	TBD / TBD	C / TBD	NLMC - Fort Detrick, MD	Jan 2019	Jan 2020	1	875,000.00	N	Oct 2018	Oct 2018
4.3) Radiographic Fluoroscopy w/ Wireless Digital Imaging Option		2020	TBD / TBD	C / TBD	NMLC - Fort Detrick MD	Sep 2020	Sep 2021	1	497,000.00	N	Dec 2019	Jan 2020

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8114 / Naval MIP Support Equipment					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: 0305192N				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	12.324	2.030	1.984	6.097	0.000	6.097	4.995	4.328	4.359	4.402	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	12.324	2.030	1.984	6.097	0.000	6.097	4.995	4.328	4.359	4.402	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	12.324	2.030	1.984	6.097	0.000	6.097	4.995	4.328	4.359	4.402	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: DRP: This effort procures, installs, configures, and sustains critical Maritime Intelligence applications to include primary and secondary servers and enterprise data storage systems containing mission critical Naval Intelligence information at ONI and off-site Disaster Recovery locations. Fleet SCI IT: This effort delivers and sustains SCI network access and information technology infrastructure and tools to the Maritime Operations Centers and Naval Intelligence Community ashore. This includes desktop hardware, software, and peripherals, network equipment, server hardware and software, video teleconferencing devices, secure voice over IP telephones. Navy Sensitive Compartmented Information (SCI) Information Assurance (IA): The Navy SCI IA Worldwide program is focused on issuance of Authorities to Operate (ATO's) for all Navy systems that process, store, and/or transmit Sensitive Compartmented Information (SCI), to include tactical capabilities. Utilizes the Intelligence Community Directive 503 (ICD 503) Risk Management Framework (RMF) to ensure Federal Information Security Management Act (FISMA) compliance. Navy Fleet Imagery Support Team (FIST): FIST provides the Fleet with GEOINT Intelligence Specialist support through a Sea component and a reachback element. The Sea element augments the Unmanned Aerial System (UAS) deployments. The reachback element is a 24x7 GEOINT watch and analytical assets, that provides federated and ad-hoc intelligence production to numbered Fleets Maritime Operation Centers (MOCs), and deployed support groups (e.g. cryptologic, expeditionary, etc). Navy Maritime Operations Center (MOC): MOC / Fleet Engagement delivers daily onsite analytic expertise and tailored, focused intelligence reach back support to MHQ /w MOCs, MIOC, Carrier Strike Group (CSG) and Expeditionary Strike Group (ESG) Commanders, and independent deployers. Analysts produce daily current intelligence products and provide daily support to decision makers focused on Fleet PIRs / CCIRs, leveraging deep penetrating maritime knowledge and contextual understanding developed by NIP-funded programs. Includes SCI communication support. [P40A / FIST Capital Equipment Replacement Program (CERP0]: Maintain and modernize Navy GEOINT Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) distributed operations node. MOD and CERP systems to ensure interoperability with Fleet, Joint, and NGA PED infrastructure and ISR platforms. Space MOD will increase PED capacity to support 10 lines of AISR data. MOD Space is												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8114 / Naval MIP Support Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0305192N	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
re-engineering 17,345 SQFT of analyst's spaces that includes new fiber, critical power, additional routers for the GEOINT Sub-network, build of network closets, additional power drops and additional desks to support AISR GEOINT PED and Multi-INT NRT operations ISO of the Fleet. [P40A / SCI Network CERP for MOCs]: Provide resources for a critical, must-fund change proposal (CP) to satisfy COMPACFLT requirement to provision Joint Worldwide Intelligence Communications System (JWICS) in Maritime Operation Centers (MOCs) to provide Fleet Commanders' intelligence on Russia, Ukraine, North Korea and other countries. Project will improve SCI coalition network enclaves on force level ships and the MOCs. [P40A / SCI Communications at MOCs]: SCI services at the MOC transfer to Fleet SCI IT for communication services. Fleet SCI IT (Hopper ISC) will be the single service provider for MOCs ashore, supporting messaging, compartmented, AOR unique and intelligence services. [P40A / SCI IA]: Funding enables Navy tactical SCI program capabilities needed for the establishment of an initial capability and fully operational capability to meet full compliance with ICD 502 and provide active cyber defense and incident response of the information environment for the IC and establishes the framework for risk management and authorization (RMF) across all systems that process, store and/or transmit SCI		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy							Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment					P-1 Line Item Number / Title: 8114 / Naval MIP Support Equipment					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: 0305192N				Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Naval MIP Support Equipment	P-5a			- / 12.324	- / 2.030	- / 1.984	- / 6.097	- / -	- / 6.097
P-40	Total Gross/Weapon System Cost				- / 12.324	- / 2.030	- / 1.984	- / 6.097	- / 0.000	- / 6.097
*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:

The FY 2018 funding enables continued network equipment and storage upgrades for the Naval Intelligence community.

The FY 2019 funding enables continued network and storage equipment sustainment and modernization for the Naval Intelligence community.

The FY 2020 funding enables continued network and storage equipment sustainment, modernizes the Navy GEOINT TCPED distributed operations nodes, and modernizes SCI coalition network enclaves on force level ships and the Maritime Operations Centers (MOCs). The funding increase supports IA CERP and SCI communications at the MOCs.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2								P-1 Line Item Number / Title: 8114 / Naval MIP Support Equipment							Aggregated Items Title: Naval MIP Support Equipment				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) Naval MIP Support Equipment																				
1.1) Network Storage Systems I ^(†)	A		510,666.67	12	6.128	1,171K	1	1.171	1,119K	1	1.119	1,087K	1	1.087	-	-	-	1,087K	1	1.087
1.2) Computer Hardware Refresh I ^(†)	A		1,786.19	898	1.604	262,000.00	1	0.262	238,000.00	1	0.238	240,000.00	1	0.240	-	-	-	240,000.00	1	0.240
1.3) Network Equipment upgrades/refresh ^{(2)(†)}	A		12,500.00	96	1.200	300,000.00	1	0.300	325,000.00	1	0.325	338,000.00	1	0.338	-	-	-	338,000.00	1	0.338
1.4) Video Conference Equip refresh ^{(3)(†)}	A		25,000.00	33	0.825	297,000.00	1	0.297	302,000.00	1	0.302	318,000.00	1	0.318	-	-	-	318,000.00	1	0.318
1.5) FIST Capital Equipment Replacement Program (CERP) ^(†)	A		-	-	-	-	-	-	-	-	-	2,114K	1	2.114	-	-	-	2,114K	1	2.114
1.6) SCI Network CERP for MOCs ^(†)	A		-	-	-	-	-	-	-	-	-	500,000.00	1	0.500	-	-	-	500,000.00	1	0.500
1.7) SCI Communications at MOCs ^(†)	A		-	-	-	-	-	-	-	-	-	1,000K	1	1.000	-	-	-	1,000K	1	1.000
Subtotal: 1) Naval MIP Support Equipment			-	-	9.757	-	-	2.030	-	-	1.984	-	-	5.597	-	-	-	-	-	5.597
2) SCI IA ⁽⁴⁾																				
2.1) Equip/Software/ Licenses ^(†)	A		1,291K	1	1.291	-	-	-	-	-	-	500,000.00	1	0.500	-	-	-	500,000.00	1	0.500
2.2) Upgrade tools ^(†)	A		1,276K	1	1.276	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) SCI IA			-	-	2.567	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
Total			-	-	12.324	-	-	2.030	-	-	1.984	-	-	6.097	-	-	-	-	-	6.097

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) Changed basis from individual computers and parts to computer system.

(2) Changed basis from individual network parts to a network system.

(3) Changed basis from individual video equipment to a video system.

(4) Funding enables Navy tactical SCI program capabilities needed for the establishment of an initial capability and fully operational capability to meet full compliance with ICD 502 and provide active cyber defense and incident response of the information environment for the IC and establishes the framework for risk management and authorization (RMF) across all systems that process, store and/or transmit SCI

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2			P-1 Line Item Number / Title: 8114 / Naval MIP Support Equipment						Aggregated Items: Naval MIP 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) Naval MIP Support Equipment												
1.1) Network Storage Systems I		2012	Network Appliance / Washington, DC	C / FFP	NAVICP, Mechanicsburg, PA	Mar 2012	Mar 2012	3	412,333.33	N	Jan 2012	Dec 2011
1.1) Network Storage Systems I		2013	Network Appliance / Washington, DC	C / FFP	NAVICP, Mechanicsburg, PA	Mar 2013	Mar 2013	3	484,666.67	N	Jan 2013	Dec 2012
1.1) Network Storage Systems I		2014	Network Appliance / Washington, DC	C / FFP	NAVICP, Mechanicsburg, PA	Mar 2014	Mar 2014	2	0.00	N	Jan 2014	
1.1) Network Storage Systems I		2015	Network Appliance / Washington, DC	C / FFP	NAVICP, Mechanicsburg, PA	Dec 2014	Mar 2015	1	1,060K	N	Aug 2014	
1.1) Network Storage Systems I		2016	Network Appliance / Washington, DC	C / FFP	** NO PCO **	Dec 2015	Mar 2016	2	645,000.00	N	Aug 2015	
1.1) Network Storage Systems I		2017	Network Appliance / Washington, DC	C / FFP	** NO PCO **	Dec 2016	Mar 2017	1	1,087K	N	Aug 2016	
1.1) Network Storage Systems I		2018	Network Appliance / Washington, DC	C / CPFF	** NO PCO **	Dec 2017	Mar 2018	1	1,171K	N	Aug 2017	
1.1) Network Storage Systems I		2019	Network Appliance / Washington, DC	C / CPFF	** NO PCO **	Dec 2018	Mar 2019	1	1,119K	N	Aug 2018	
1.2) Computer Hardware Refresh (1)		2013	VARIOUS / Various	C / TBD	TBD	Mar 2013	Mar 2013	205	2,000.00	N	Jan 2013	Dec 2012
1.2) Computer Hardware Refresh (1)		2014	VARIOUS / Various	C / TBD	TBD	Mar 2014	Mar 2014	250	0.00	N	Dec 2013	Dec 2013
1.2) Computer Hardware Refresh (1)		2015	VARIOUS / Various	C / TBD	TBD	Mar 2015	Mar 2015	315	2,000.00	N	Dec 2014	Dec 2014
1.2) Computer Hardware Refresh (1)		2016	VARIOUS / Various	C / TBD	** NO PCO **	Jan 2016	May 2016	127	1,976.38	N	Dec 2015	
1.2) Computer Hardware Refresh (1)		2017	VARIOUS / Various	C / TBD	** NO PCO **	Jan 2017	May 2017	1	313,000.00	N	Dec 2016	
1.2) Computer Hardware Refresh (1)		2018	VARIOUS / Various	C / TBD	** NO PCO **	Jan 2018	May 2018	1	262,000.00	N	Dec 2017	
1.2) Computer Hardware Refresh (1)		2019	VARIOUS / Various	C / TBD	** NO PCO **	Jan 2019	May 2019	1	238,000.00	N	Dec 2018	
1.3) Network Equipment upgrades/ refresh (2)		2013	TBD / TBD	C / TBD	TBD	Mar 2013	Mar 2013	30	10,000.00	N	Dec 2012	
1.3) Network Equipment upgrades/ refresh (2)		2015	TBD / TBD	C / TBD	** NO PCO **	Dec 2014	Mar 2015	40	10,000.00	N	Dec 2014	
1.3) Network Equipment upgrades/ refresh (2)		2016	TBD / TBD	C / TBD	** NO PCO **	Dec 2015	Mar 2016	25	10,000.00	N	Dec 2015	
1.3) Network Equipment upgrades/ refresh (2)		2017	TBD / TBD	C / TBD	** NO PCO **	Dec 2016	Mar 2017	1	250,000.00	N	Dec 2016	

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2			P-1 Line Item Number / Title: 8114 / Naval MIP Support Equipment					Aggregated Items: Naval MIP 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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.3) Network Equipment upgrades/ refresh ⁽²⁾		2018	TBD / TBD	C / TBD	** NO PCO **	Dec 2017	Mar 2018	1	300,000.00	N	Dec 2017	
1.3) Network Equipment upgrades/ refresh ⁽²⁾		2019	TBD / TBD	C / TBD	** NO PCO **	Dec 2018	Mar 2019	1	325,000.00	N	Dec 2018	
1.4) Video Conference Equip refresh ⁽³⁾		2013	TBD / TBD	C / TBD	TBD	Mar 2013	Mar 2013	12	25,000.00	N	Dec 2012	
1.4) Video Conference Equip refresh ⁽³⁾		2014	TBD / TBD	C / TBD	TBD	Mar 2014	Mar 2014	10	0.00	N	Dec 2013	
1.4) Video Conference Equip refresh ⁽³⁾		2016	TBD / TBD	C / TBD	** NO PCO **	Feb 2016	Jun 2016	10	25,000.00	N	Dec 2015	
1.4) Video Conference Equip refresh ⁽³⁾		2017	TBD / TBD	C / TBD	** NO PCO **	Feb 2017	Jun 2017	1	275,000.00	N	Dec 2016	
1.4) Video Conference Equip refresh ⁽³⁾		2018	TBD / TBD	C / TBD	** NO PCO **	Feb 2018	Jun 2018	1	297,000.00	N	Dec 2017	
1.4) Video Conference Equip refresh ⁽³⁾		2019	TBD / TBD	C / TBD	** NO PCO **	Feb 2019	Jun 2019	1	302,000.00	N	Dec 2018	
1.5) FIST Capital Equipment Replacement Program (CERP0		2020	TBD / TBD	C / TBD	** NO PCO **	Jun 2020	Nov 2020	1	2,114K	N	Dec 2019	
1.6) SCI Network CERP for MOCs		2020	TBD / TBD	C / TBD	** NO PCO **	Jun 2020	Nov 2020	1	500,000.00	N	Dec 2019	
1.7) SCI Communications at MOCs		2020	VARIOUS / Various	C / TBD	** NO PCO **	Mar 2020	Jun 2020	1	1,000K	N	Oct 2019	
2) SCI IA												
2.1) Equip/Software/ Licenses		2016	TBD / TBD	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	1,291K	Y		
2.2) Upgrade tools		2016	TBD / TBD	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	1,276K	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip					
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	22.003	23.300	15.131	16.905	1.090	17.995	16.712	12.683	12.843	13.100	-	133.767
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	22.003	23.300	15.131	16.905	1.090	17.995	16.712	12.683	12.843	13.100	-	133.767
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	22.003	23.300	15.131	16.905	1.090	17.995	16.712	12.683	12.843	13.100	-	133.767
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
This budget line item funds procurement of various items of equipment to support the operating forces at Naval Stations and related facilities, including, but not limited to the following:												
Mobile Aircraft Fire Training Devices: are necessary for the Navy's firefighters to meet minimum firefighting requirements and qualifications. Baseline budget replaces dilapidated equipment and procures new systems to ensure that the Navy's firefighters are able to keep up to date on technology and techniques of interior and/or exterior firefighting. Strategic placement of these devices will also minimize travel training costs and maximize our members training opportunities. New training devices will allow CNIC to meet OPNAVINST, Department of Defense and National Fire Protection Association standards for Fire Service training requirements. Live fire training devices ensure proficiency of fire and emergency services personnel.												
Cranes and/or Boat Hoists: Procurement of cranes/hoist of various types and sizes (Davit/Bridge/Portal/Gantry/Mobile Harbor). All are weight handling systems designed/selected to meet the specific requirements of the intended facility.												
Fender/Bumper/Separator Systems: Procurement includes various size and shaped energy absorbing cushions placed between a pier and a ship/submarine or between two ships/submarines. Multiple fenders may be used with different size and types of ships. Various types of filling of air or other material may be procured. Standard type is hydro-pneumatic rubber fender made IAW ISO 17357. May be used for both submarine and surface ships.												
Composite CVN Camels: Procurement of large floating metal or composite structures designed to maintain the proper distance for CV/CVNs to keep the ships from being damaged or damaging the pier structure. When USN Carriers are placed alongside a pier the hull design dictates the need to use standoff equipment. The camels requested provide the necessary standoff. These composite camels offer considerable reduction in maintenance due to constructed material. As currently utilized ship support equipment ages it becomes necessary to replace that equipment. Equipment procurement budgets are not adequate to keep up with the demand for ship support equipment. As more ships are placed into service the requirement exceeds currently available support equipment.												
Submarine Deep Draft Camels: Procurement of very large floating metal structures designed to maintain the proper distance for submarines to keep them from being damaged by the pier. These may be for specific submarine classes (e.g. Fast Attack), or universal (i.e. for all submarine classes).												
Universal Submarine Composite Camels: Procurement of universal pierside, composite camels used to breast submarines from piers/wharves. They are fabricated of universal composite material with a modular design. Size is approximately 36 ft W x 18 ft H x 17.6 ft D. Made per a standard NAVFAC drawing. Suitable for all classes of submarines.												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip
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		
Utility and Maintenance/Paint Floats and Barges: Procurement of floating assets that are used by Port Operations and Ship's Force personnel to facilitate external ship work (blasting, painting, other maintenance). They can also be used as separators or camels. These can be towed into place, or may even be self-propelled. They may have permanent or movable work platforms installed as needed to assist in reaching work sites. Some may have self-ballasting mechanisms to help maintain stability and come in various sizes. Composite Sub camels - as constructed the composite Submarine camels significantly reduce the amount of maintenance required to keep the units serviceable. Older models, reaching the end of serviceability are made of steel and in some cases wood. To overhaul these units requires considerable manpower. The older units do not provide the same level of hull protection the composite units provide. Equipment procurement budgets are not adequate to keep up with the demand for ship support equipment. As more ships are placed into service the requirement exceeds currently available support equipment. [P40A / DDG Separators]: Large floating metal structures designed to maintain the proper distance for DDG's when nested outboard of another DDG. Also, provides protection from ship-to-ship damage due to vessel maneuvers or where vessel-to-pier contact may occur. [P40A / CVN Camels (Steel/Composite)]: CVN Camels: Procurement of very large floating composite structures, designed to maintain the proper standoff distance for CVNs to keep the ships from being damaged or damaging the pier structure. This budget request supports the Navy's CVN 21 Future Carrier ship coming online. Currently, there are no viable assets (CVN Camels) to support homeporting for the Navy' new CVN. The cost increase is associated with using composite material vice steel. These CVN camels are designed to last 25 years. The current inventory of steel CVN camel are past their service life and require an overhaul, without which they may only keep afloat for a couple of years. [P40A / Collateral Equipment]: Costs identified with equipment and minor property required to initially outfit new construction financed by the, Military Construction, Navy appropriation or Host Nation funds as outlined in OPNAVINST 11010.20 series (Facilities Projects Manual). Does not include costs associated with furnishings, fixtures, and equipment required as a result of remodeling, restorations, special projects, consolidations, etc. These requirements are funded by the impacted programs. [P40A / Forklifts]: Funds support the procurement of a two (2) electric forklifts for Combined Task Force Five One (CTF51) at Naval Support Activity Bahrain. The forklifts will be utilized in an enclosed warehouse to move gear and equipment in support of Task Force FIVE ONE and Expeditionary Resuscitative Surgical System. Funds support the procurement of one (1) all-terrain forklift for Deployable Joint Command and Control (DJC2) system required in establishing DJC2 in an off-site region or deployment. The forklift is capable of functioning in any environment which enables short notice deployment and allows DJC2 to support contingency and anti-terrorism operations within the CENTCOM Area of Responsibility (AOR). [P40A / Patrol Craft SIGINT Equipment]: Persistent Intelligence, Surveillance, and Reconnaissance (ISR) in the Maritime Domain and Choke Points is on the United States Central Command (USCENTCOM) FY18-22 Integrated Priorities List. Funding will provide a cryptologic capability on five (5) available Patrol Craft (PC) units in the USCENTCOM area of responsibility (AOR). This project is an enhanced upgrade to an existing Limited Objective Experiment (LOE) conducted in-theater since late 2014. This LOE initiative has provided critical intelligence gaps in U.S. Naval Forces Central Command's (NAVCENT) collection posture and provided unique access to targets of interest. Funding supports the procurement, integration and testing to upgrade 5 PCs with maintainable systems, expands the SIGINT capability and increases NAVCENT/Commander Fifth Fleet's (C5F) Organic Persistent ISR capability which will enable NAVCENT/C5F to meet intelligence requirements in the littorals not accessible by current collection platforms and program of record (POR) systems.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip				
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Operating Forces Supt Equip	P-5a			- / 22.003	- / 23.300	- / 15.131	- / 16.905	- / 1.090	- / 17.995
P-40	Total Gross/Weapon System Cost				- / 22.003	- / 23.300	- / 15.131	- / 16.905	- / 1.090	- / 17.995
*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: FY20 budget increase is associated with the purchase of a Submarine Deep Draft Camel at Naval Station Norfolk, VA, a Paint Maintenance Barge at Naval Base Everett, WA, a Utility Float at Yokosuka (CFAY) Japan, CVN Camels at Naval Station Norfolk and Naval Station Mayport to support new carrier configurations coming online and a 3 Tier/4 Tier Paint Float at Naval Station San Diego. Items are to replace current inventory that have reached life cycle replacement or to support new ships hull configurations. OCO: Funds support the procurement of a two (2) electric forklifts for Combined Task Force Five One (CTF51) at Naval Support Activity Bahrain. The forklifts will be utilized in an enclosed warehouse to move gear and equipment in support of Task Force FIVE ONE and Expeditionary Resuscitative Surgical System. Funds support the procurement of one (1) all-terrain forklift for Deployable Joint Command and Control (DJC2) system required in establishing DJC2 in an off-site region or deployment. The forklift is capable of functioning in any environment which enables short notice deployment and allows DJC2 to support contingency and anti-terrorism operations within the CENTCOM Area of Responsibility (AOR).										

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy																Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2								P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip								Aggregated Items Title: Operating Forces Supt Equip					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total			
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
1) Commander, Navy Installations Command (CNIC)																					
1.1) OCO OPN for ISA AB Live Fire Trng Device	A		-	-	-	0.700	1	0.700	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) Mobile Aircraft Training Devices ^(†)	A		0.876	5	4.380	1.080	1	1.080	1.110	1	1.110	1.117	1	1.117	-	-	-	1.117	1	1.117	
1.3) DDG Separators ⁽¹⁾	A		0.395	5	1.975	-	-	-	0.714	4	2.856	0.754	3	2.262	-	-	-	0.754	3	2.262	
1.4) Submarine Deep Draft Camel (N/S Design) (SEAWOLF) ^{(2)(†)}	A		0.945	4	3.779	-	-	-	-	-	-	1.112	1	1.112	-	-	-	1.112	1	1.112	
1.5) Submarine Deep Draft Camel (Redesign) ⁽³⁾	A		0.708	1	0.708	-	-	-	0.823	3	2.469	0.812	2	1.624	-	-	-	0.812	2	1.624	
1.6) Paint Maintenance Barge (65 Foot Lift) ^{(4)(†)}	A		0.467	3	1.401	0.430	2	0.860	-	-	-	0.590	1	0.590	-	-	-	0.590	1	0.590	
1.7) Composite Universal Submarine Camels ⁽⁵⁾	A		1.047	6	6.282	1.110	1	1.110	1.333	1	1.333	-	-	-	-	-	-	-	-	-	
1.8) Utility Float, 60 Foot ⁽⁶⁾	A		-	-	-	-	-	-	-	-	-	0.460	1	0.460	-	-	-	0.460	1	0.460	
1.9) Fenders/Bumpers P-383	A		2.700	1	2.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.10) CVN Camels (Steel/Composite) ⁽⁷⁾	A		-	-	-	3.956	1	3.956	3.675	1	3.675	3.737	2	7.474	-	-	-	3.737	2	7.474	
1.11) 3 Tier/4 Tier Plus - Paint Float ⁽⁸⁾	A		-	-	-	-	-	-	-	-	-	0.847	1	0.847	-	-	-	0.847	1	0.847	
1.12) Hydro Pneumatic Sub Fender ⁽⁹⁾	A		-	-	-	-	-	-	0.418	5	2.090	0.454	2	0.908	-	-	-	0.454	2	0.908	
1.13) Pontoon Section/Small Boat Dock ⁽¹⁰⁾	A		0.389	2	0.778	-	-	-	1.097	1	1.097	-	-	-	-	-	-	-	-	-	
1.16) Collateral Equipment	A		-	-	-	-	-	0.494	-	-	0.501	-	-	0.511	-	-	0.700	-	-	1.211	
Subtotal: 1) Commander, Navy Installations Command (CNIC)			-	-	22.003	-	-	8.200	-	-	15.131	-	-	16.905	-	-	0.700	-	-	17.605	
2) USFFC Overseas Contingencies Operations																					
2.1) Forklifts ⁽¹¹⁾	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.390	-	-	0.390	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy																Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2								P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip								Aggregated Items Title: Operating Forces Supt Equip				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Subtotal: 2) USFFC Overseas Contingencies Operations			-	-	0.000	-	-	-	-	-	-	-	-	0.000	-	-	0.390	-	-	0.390
3) Patrol Craft SIGINT Capability																				
3.1) Patrol Craft SIGINT Equipment (12)(t)		A		-	-	-	2.396	5	11.980	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) Patrol Craft SIGINT Capability			-	-	0.000	-	-	11.980	-	-	-	-	-	-	-	-	-	-	-	-
4) Patrol Craft SIGINT Production Support																				
4.1) Patrol Craft SIGINT - Production Support		A		-	-	-	-	-	0.720	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) Patrol Craft SIGINT Production Support			-	-	0.000	-	-	0.720	-	-	-	-	-	-	-	-	-	-	-	-
5) Patrol Craft SIGINT - Installation																				
5.1) Patrol Craft SIGINT - DSA		A		-	-	-	-	-	0.400	-	-	-	-	-	-	-	-	-	-	-
5.2) Patrol Craft SIGINT - Installation		A		-	-	-	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 5) Patrol Craft SIGINT - Installation			-	-	0.000	-	-	2.400	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	22.003	-	-	23.300	-	-	15.131	-	-	16.905	-	-	1.090	-	-	17.995
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:																				
(1) FY20 budget procures separator systems to replace current inventory. Quantity decrease reflects life cycle phase replacement goals.																				
(2) FY20 budget continues to support replacement of current port operations equipment that is approaching the end of its service life. Increase reflects life cycle phase replacement goals at Kitsap, WA.																				
(3) FY20 budget procures camels to replace current inventory. Quantity decrease reflects life cycle phase replacement goals.																				
(4) FY20 budget continues to support replacement of current port operations equipment that is approaching the end of its service life. Increase reflects life cycle phase replacement goals at Everett, WA.																				
(5) FY20 decrease associated with previously purchased camel for Naval Station Norfolk. However, due to tides, current and sea state, Naval Station Norfolk will procure a different camel design.																				
(6) FY20 budget continues to support replacement of current port operations equipment that is approaching the end of its service life. Increase reflects life cycle phase replacement goals at Yokosuka JA.																				
(7) FY20 increase associated with newly designed CVN Camel to support Carrier ships configurations coming online (CVN-78) at Naval Station Norfolk and to replace current inventory that is at life cycle replacement.																				
(8) FY20 increase associated with a new Paint Float that is currently being designed This will be procured for Naval Station San Diego, CA and Norfolk, VA.																				
(9) FY20 budget procures fenders to replace current inventory. Quantity decrease reflects life cycle phase replacement goals.																				
(10) FY20 decrease associated with a specialized dock used at Yokosuka, Japan that is not procured on a regular basis.																				
(11) Funds support the procurement of electric forklifts for Combined Task Force Five One (CTF51) at NSA Bahrain. The forklifts will be used at a warehouse to move gear and equipment. Funds support the procurement of an all-terrain forklift for Deployable Joint Command and Control (DJC2) system. It is required for establishing an off-site region or deployment. The forklift can function in any environment which allows for the ability to support contingency and anti-terrorism operations within the CENTCOM Area of Responsibility (AOR). The three forklifts vary in price.																				
(12) Patrol Craft SIGINT - BTR transfer from BSO60 to BSO39 August 2018																				

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8118 / Operating Forces Supt Equip					Aggregated Items: Operating Forces Supt Equip			
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 (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Commander, Navy Installations Command (CNIC)												
1.2) Mobile Aircraft Training Devices		2016	KFT/Fireblast / New MFG - CA/NJ	MIPR	DLA	Apr 2016	Apr 2016	1	1.088	Y		
1.2) Mobile Aircraft Training Devices		2017	KFT/Fireblast / New MFG - CA/NJ	MIPR	DLA	Jun 2017	Jun 2017	1	1.018	N	Jun 2017	
1.2) Mobile Aircraft Training Devices		2018	KFT/Fireblast / New MFG - CA/NJ	C / TBD	** NO PCO **	Jun 2018	Jun 2018	1	1.080	N	Jun 2018	
1.2) Mobile Aircraft Training Devices		2019	KFT/Fireblast / New MFG - CA/NJ	C / TBD	** NO PCO **	Jun 2019	Jun 2019	1	1.110	N	Jun 2019	
1.4) Submarine Deep Draft Camel (N/S Design) (SEAWOLF) ⁽²⁾		2016	LB I / JB PEARL HARBOR-HICKAM	C / TBD	** NO PCO **	Oct 2015	Oct 2015	3	0.765	Y		
1.4) Submarine Deep Draft Camel (N/S Design) (SEAWOLF) ⁽²⁾		2017	LB I / JB PEARL HARBOR-HICKAM	C / TBD	** NO PCO **	Oct 2016	Oct 2016	1	0.713	N		
1.4) Submarine Deep Draft Camel (N/S Design) (SEAWOLF) ⁽²⁾		2020	LB I / JB PEARL HARBOR-HICKAM	C / TBD	** NO PCO **	Oct 2019	Oct 2019	1	1.112	N		
1.6) Paint Maintenance Barge (65 Foot Lift) ⁽⁴⁾		2016	Armstrong Marine, INC / JB PEARL HARBOR-HICKAM	C / FP	NSWC	Oct 2015	Oct 2015	2	0.465	Y		
1.6) Paint Maintenance Barge (65 Foot Lift) ⁽⁴⁾		2017	Armstrong Marine, INC / JB PEARL HARBOR-HICKAM	C / TBD	** NO PCO **	Oct 2016	Oct 2016	1	0.471	N		
1.6) Paint Maintenance Barge (65 Foot Lift) ⁽⁴⁾		2018	Armstrong Marine, INC / JB PEARL HARBOR-HICKAM	C / TBD	** NO PCO **	Oct 2017	Oct 2017	2	0.430	N		
1.6) Paint Maintenance Barge (65 Foot Lift) ⁽⁴⁾		2020	Armstrong Marine, INC / JB PEARL HARBOR-HICKAM	C / TBD	** NO PCO **	Oct 2019	Oct 2019	1	0.590	N		
3) Patrol Craft SIGINT Capability												
3.1) Patrol Craft SIGINT Equipment (12)	✓	2018	TBD / TBD	C / TBD	** NO PCO **	Mar 2019	Sep 2019	5	2.396	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8120 / C4ISR 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	111.933	4.010	3.576	30.146	0.000	30.146	23.448	20.806	20.060	20.462	-	234.441
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	111.933	4.010	3.576	30.146	0.000	30.146	23.448	20.806	20.060	20.462	-	234.441
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	111.933	4.010	3.576	30.146	0.000	30.146	23.448	20.806	20.060	20.462	-	234.441
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Navy Expeditionary Command, Control, Communications, Computers, & Intelligence (C4I): Provides procurement, integration and initial training of Small, Medium and Large Scale Communication Systems that also involves convergence to a common Shore-Based Expeditionary C4I baseline, to include a single cybersecurity Risk Management Framework (RMF) Authority to Operate (ATO). Includes the Navy Enterprise Tactical Command and Control (NETC2) (V)1 and (V)2, Expeditionary Mine Countermeasures (ExMCM) and Assured Command and Control (AC2) in support of outfitting Table of Allowances (TOA) equipment requirements within Expeditionary Forces. Ensures requirements are addressed through a process where common C4I solution are being developed, procured, integrated, coordinated, tracked, and fielded across Navy Expeditionary Forces (NEF), both Active Component (AC) and Reserve Component (RC). [P5 / Deployable Mission Support Systems (DMSS) Kits]: Per USCYBERCOM DMSS System Requirements Document V1.0, each Cyber Protection Team (CPT) must be provisioned with 2 Deployable Mission Support Systems (DMSS) to support two simultaneous team deployments (40 total). The CPTs primary mission is to Survey, Secure, and Protect military networks (aboard Navy ships, data centers, and shore sites worldwide) which necessitates onsite vulnerability assessments and incident response on little to no notice. Field deployable computing assets for the 20 Navy CPTs are required to allow globally deployable teams to conduct intensive, computationally-heavy analysis when reach-back capability is unavailable or bandwidth is limited. In addition, Navy CPTs located in CONUS will be required to deploy cyber planning and incident response elements into theater to support C4F, C5F, C6F and C7F mission assurance objectives to include identification of cyber key terrain and Operation Plan (OPLAN) development.												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8120 / C4ISR 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										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / C4ISR Equipment	P-5a, P-21			- / 111.933	- / 4.010	- / 3.576	- / 30.146	- / 0.000	- / 30.146
P-40	Total Gross/Weapon System Cost				- / 111.933	- / 4.010	- / 3.576	- / 30.146	- / 0.000	- / 30.146
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:

FY20 funds required for procurement, integration, fielding and modernization of Small, Medium and Large Scale Communication Systems for Naval Expeditionary forces. Additionally, program funds procure, integrate, field and modernize tactical C4I, including rapid-deployable, roll on/roll off C2 communications suite to support Expeditionary Mine Countermeasure (ExMCM) mission and Assured Command and Control (AC2) capability in the event of a denied communications environment by providing increased data throughput and Satellite Communication (SATCOM) reliability.

The \$5.9M increase from FY19 to FY20 is a combination of a \$3.5M increase for equipment procurement to support four (4) additional C7 ExMCM Companies and a \$2.4M increase to support the procurement of an additional two (2) NETC2 systems. A total of three (3) NETC2 systems will be procured in FY 20.

Funds for Deployable Mission Support Systems (DMSS) kits were realigned from budget line item 8106 to a Cyber Pure budget line item 8120 which ensures compliance with FY 2017 Appropriations Act. DMSS kits are required for each Cyber Protection Teams (CPTs) to support simultaneous deployments. The CPTs primary mission is to Survey, Secure, and Protect military networks aboard Navy ships, data centers, and shore sites worldwide.

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Exhibit P-5, Cost Analysis: PB 2020 Navy													Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8120 / C4ISR Equipment							Item Number / Title [DODIC]: 1 / C4ISR Equipment					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				111.933		4.010		3.576		30.146		0.000		30.146				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				111.933		4.010		3.576		30.146		0.000		30.146				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				111.933		4.010		3.576		30.146		0.000		30.146				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - Navy Expeditionary C4I Cost																		
Recurring Cost																		
1.1.1) Navy Expeditionary C4I - Active Component ⁽¹⁾	-	-	23.096	-	-	3.170	-	-	2.742	-	-	7.879	-	-	-	-	-	7.879
1.1.2) Navy Expeditionary C4I - Reserve Component	-	-	5.544	-	-	0.840	-	-	0.834	-	-	1.572	-	-	-	-	-	1.572
Subtotal: Recurring Cost	-	-	28.640	-	-	4.010	-	-	3.576	-	-	9.451	-	-	-	-	-	9.451
Subtotal: Hardware - Navy Expeditionary C4I Cost	-	-	28.640	-	-	4.010	-	-	3.576	-	-	9.451	-	-	-	-	-	9.451
Hardware - Consolidated Prior Year Requirements Cost																		
Recurring Cost																		
2.1.1) Consolidated Prior Year Requirements	-	-	83.293	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	83.293	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Consolidated Prior Year Requirements Cost	-	-	83.293	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - USFFC BSO 60 Cost																		
3.1) Deployable Mission Support Systems (DMSS) Kits ⁽¹⁾ ⁽²⁾	-	-	-	-	-	-	-	-	-	985.476	21	20.695	-	-	-	985.476	21	20.695
Subtotal: Support - USFFC BSO 60 Cost	-	-	-	-	-	-	-	-	-	-	-	20.695	-	-	-	-	-	20.695

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Exhibit P-5, Cost Analysis: PB 2020 Navy													Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8120 / C4ISR Equipment							Item Number / Title [DODIC]: 1 / C4ISR Equipment					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	111.933	-	-	4.010	-	-	3.576	-	-	30.146	-	-	0.000	-	-	30.146

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

Footnotes:

⁽¹⁾ Quantities are not provided for either the Active or Reserve components since various piece parts are being procured for small, medium, and large-scale asset modernization based on NECC approved requirements and priorities via quarterly Technical Review Board. There are also no associated installation costs.// The program is buying more quantities of equipment to support the additional ExMCM Companies as approved in the Table of Allowance (TOA) equipment requirements within Expeditionary Forces as well as NETC2s for Active and Reserve Components.

⁽²⁾ Per USCYBERCOM System Requirements Document, each Navy Cyber Protection Team (CPT) must be provisioned with 2 Deployable Mission Support Systems (DMSS) to support two simultaneous team deployments (40 total). The CPTs primary mission is to Survey, Secure, and Protect military networks (aboard Navy ships, data centers, and shore sites worldwide) which necessitates onsite vulnerability assessments and incident response on little to no notice. Field deployable computing assets for the 20 Navy CPTs are required to allow deployable teams to conduct intensive, computationally-heavy analysis when reach-back capability is unavailable or bandwidth is limited. In addition, Navy CPTs located in CONUS will be required to deploy cyber planning and incident response elements into theater to support C4F, C5F, and C6F mission assurance objectives to include identification of cyber key terrain and Operation Plan (OPLAN) development. The DMSS installations are simple modifications and have no installation costs associated since the work will be performed at the Navy organizational level.

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8120 / C4ISR Equipment					Item Number / Title [DODIC]: 1 / C4ISR Equipment			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1) Deployable Mission Support Systems (DMSS) Kits ^(†)		2020	SPAWAR / San Diego, CA	C / FFP	SPAWAR	May 2020	May 2020	21	985.476	N	Jul 2019	Mar 2020

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2020 Navy																				Date: March 2019											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2										P-1 Line Item Number / Title: 8120 / C4ISR Equipment										Item Number / Title [DODIC]: 1 / C4ISR Equipment											
Cost Elements (Units in Each)							Fiscal Year 2020										Fiscal Year 2021													BALANCE	
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020										Calendar Year 2021														
							OC T	NO V	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP
3.1) Deployable Mission Support Systems (DMSS) Kits ⁽²⁾																															
	1	2020	NAVY	21	0	21								A21																	0
							OC T	NO V	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 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2					P-1 Line Item Number / Title: 8120 / C4ISR Equipment				Item Number / Title [DODIC]: 1 / C4ISR Equipment			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2020	1-8-5 For 2020	MAX For 2020	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	SPAWAR - San Diego, CA			TBD	0	0	0	0	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).

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment							P-1 Line Item Number / Title: 8126 / Environmental 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	109.438	30.644	34.102	21.986	0.200	22.186	27.690	29.002	26.349	26.883	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	109.438	30.644	34.102	21.986	0.200	22.186	27.690	29.002	26.349	26.883	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	109.438	30.644	34.102	21.986	0.200	22.186	27.690	29.002	26.349	26.883	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
The FY 2020 funding request was reduced by \$4.026 million to account for the availability of prior year execution balances.												
ACOUSTIC MEASUREMENT SYSTEM Lifecycle replacement and upgrade of digital acoustic measurement systems used to collect data used to build gridded data bases of layered geoacoustic descriptions of the ocean floor and low frequency bottom loss databases, collect fleet anti-submarine warfare support measurements, produce high resolution anti-submarine warfare area assessment products, and serve to provide critical environmental input to fleet acoustic transmission loss models. System consists of multi-channel variable depth buoys, shipboard data acquisition, control, and processing support systems. Buoys acquire the data, provide signal conditioning and gain, and store the data in digital form.												
ACOUSTIC POSITIONING SYSTEM (ULTRA SHORT BASELINE (USBL) The Acoustic Positioning System (APS) is an Ultra Short Baseline (USBL) Acoustic Positioning System used to provide high accuracy navigation and location of towed bodies and Autonomous Underwater Vehicles (AUVs) deployed from T-AGS 60 oceanographic survey vessels. The APS is permanently installed aboard each vessel and supports tracking objects in any direction out to a 5000m radius. In addition, it is used to precisely locate lost vehicles or instrumentation for purposes of recovery. Current navigation techniques can be inaccurate as they rely on approximations resulting in imprecise location data and degraded environmental data. This can lead to a substantially increased processing time and increased risk of missed coverage. With the ability of APS to determine accurate location data, the cost, practicality, and search time to recover a lost vehicle is substantially reduced.												
DIGITAL SIDE SCAN SONAR (SHIP) Additional high-speed, high resolution side scan sonar systems are required to meet fleet requirements supporting mine warfare operations. The intended system procured will be installed aboard USNS HENSON and additional T-AGS 60 class ships to replicate the system aboard USNS HEEZEN. The procurement will facilitate simultaneous collection of high resolution imagery at mine warfare resolutions and frequencies. The imagery data is required to generate products that directly support mine warfare, hydrographic and oceanographic requirements. Side scan sonar data is critical for the detection of small mine-like targets as well as hazards-to-navigation (e.g. wrecks) and characterizing the sea-floor over large areas (geoprovincing). This data is fundamental to execute Global Mine Warfare (MIW) change-detection doctrine comparing historical data to current data to determine mine-threats.												
FLEET SURVEY TEAM INTEGRATED SURVEY PLATFORM Purchases transportable hydrographic survey platform systems used for rapid response, contingency, and emergent high-priority survey requirements. The platform is 7-9 meter air-transportable survey boat (Rigid Hull Inflatable Boat (RHIB) type) with installed and fully-integrated Multibeam Echo-Sounder RESON 7125, Single Beam Echo-Sounder, Digital Side Scan Sonar, Wide-Area Differential Global Positioning System navigation, Inertial Motion sensor system, Data Acquisition Work-Station (PC), Sound Velocity Probe, and Electric winch. The boat and trailer are designed for transport in a C-130 aircraft and rigged for hoisting.												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8126 / Environmental 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		
HYDROGRAPHIC SURVEY LAUNCH (HSL) MISSION EQUIPMENT This line item involves the life-cycle replacement of the entire mission equipment suite currently installed aboard the operational fleet of Hydrographic Survey Launch (HSL) (seven HSLs and the Bertram). The mission equipment suite includes, but is not limited to, shallow water multibeam systems, single beam systems, navigation systems, data collection and storage systems, forward-looking sonar systems, and digital side scan systems. This does not include high-resolution digital side scan systems used for mine warfare. Life-cycle replacement of these systems is critical to ensure state-of-the-art hydrographic surveying capability in littoral areas. Also, due to the harsh environmental conditions encountered by HSLs during typical hydrographic surveys, planned replacement of their mission equipment is necessary to guarantee long-term supportability. INTEGRATED SUB-BOTTOM PROFILER The sub-bottom profiler system provides high resolution digital acoustic data that describes the physical depth and acoustic characteristics of the ocean bottom and its subsurface layers over full ocean depth. This data is used in the development of products to support Anti-Submarine Warfare (ASW) and Mine Warfare programs with tactical environmental data. The sub-bottom profiler is also used to identify suitable deployment areas for installing bottom-mounted navigational beacons supporting Autonomous Underwater Vehicle (AUV) operations. These systems are life cycle replacements for existing Sub Bottom Profiler systems that have exceeded life expectancy and do not currently provide high resolution digital acoustic data with precision positioning and navigational capability that is required for Mine Warfare missions. Systems will operate in conjunction with the new deep-water multibeam systems that were installed in FY15. LONG TERM AMBIENT NOISE RECORDING AND REPORTING SYSTEM Long Term Ambient Noise Recording and Reporting System is a moored, acoustic buoy system used to support Intelligence, Surveillance and Reconnaissance (ISR) missions. The buoys are four channel Environmental Acoustic Recording System (EARS) units that will record ambient noise for long time periods within an 8kHz bandwidth. The Environmental Acoustic Recording System buoys will have to be recovered for data processing. MASTER CLOCK SYSTEMS These systems consist of: Rubidium (Rb) Fountain Clocks, which are advanced, non-commercial atomic clocks that are based on laser cooling and trapping of atoms; hydrogen masers; precise time measurement systems; amplifiers; and environmental conditioning systems to maintain precise temperature and humidity controls. These systems will allow for more rapid, robust and autonomous characterization of the Rubidium Fountains and Hydrogen Masers in the timing ensemble at U.S. Naval Observatory (USNO). Rb fountain clocks deliver the precise time and time interval required to support Global Positioning System (GPS) III requirements and national assets. OCEANOGRAPHIC INFORMATION SYSTEM (OIS) ARCHITECTURE The Oceanographic Information System (OIS) architecture provides the corporate information technology infrastructure to enable the collection, processing, storage, archival, retrieval, and dissemination of oceanographic data, products, and other scientific information delivering Meteorological and Oceanographic (METOC) superiority to the Fleet. Funds life cycle support and technology refresh to upgrade the end-to-end processing and production systems. Deployment of new state-of-the-art oceanographic sensors, such as high-speed, high-resolution digital side scan sonar systems, collect data volumes far in excess of the current OIS capability to receive, process, store, and archive data. The integration of Fleet through-the-sensor data into OIS production and the collection of remotely sensed data add to the complexity of the technology infrastructure required for OIS. Upgrades to existing corporate storage resources that support the data warehouse and expand the storage area network to meet anticipated data storage requirements are included. PORTABLE MULTIBEAM REPLACEMENT Portable Multibeam Sonar System is a roll-on/roll-off life cycle replacement for the RESON 8101 (4 systems) and the RESON 8125 (1 system). These systems provide the means to rapidly deploy a multibeam capability onto a craft of opportunity in order to support emergent naval requirements. Portability is key to enable rapid response to urgent or short-fused demands. The new systems provide an increase in survey efficiency, reduced maintenance costs, and an improvement in data quality. The Portable Multibeam Sonar System that replaces the RESON 8125 will provide high-resolution swath bathymetry along with side scan sonar imaging capability. This system will provide bottom imagery to facilitate MIW route surveys and navigation hazard surveys. PRIMARY OCEAN PREDICTION SYSTEM (POPS) ENHANCEMENTS Primary Oceanographic Prediction System (POPS)-Meteorology (Met) provides the key production engine enabling global Meteorological and Oceanographic Command (METOC) support of the fleet. POPS-Met operates within a 24/7 reach back operations center supporting global fleet operations with weather and ocean prediction products and warfighting applications that are critical to fleet safety and warfighting effectiveness. POPS-Met provides the technology and infrastructure to sustain global operations ashore and afloat by providing timely, relevant, 24/7 METOC data and products to the fleet, Department of Defense, joint, allied, and coalition warfighters at all classification levels. POPS-Met acquires and sustains the operation of high-performance computing (HPC) environments to provide most of the assured METOC forecast products and services for Tier 1 of the Battlespace on Demand, which originate directly from the METOC models, satellite processing software, and applications. Tier 1 also provides input to many of the Battlespace on Demand Tier 2 and Tier 3 Products. Ongoing technology refreshment is required to meet the growing demand for these products, particularly in response to greater emphasis on preparation for and response to regional conflicts, and the greater data volume from the National Polar-orbiting Partnership (NPP) and future remotely sensed environmental data sources. The required technology refreshment includes enhancements of the POPS-Met hardware and software, models suite, observational data ingest capability, data		

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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		
distribution capability, and reach back customer support. Together, these enhancements will provide the Fleet with more accurate and responsive environmental support across all three Tiers of Battlespace on Demand.		
SHIP MOVING VESSEL PROFILER (MVP) The Shipboard Moving Vessel Profiler (MVP) is the larger shipboard complement to the Hydrographic Survey Launch (HSL) MVP. Intended for use from T-AGS 60 platforms, the system consists of a compact and recoverable probe integrated with a computer controlled over-the-side handling system. It permits the rapid and automated acquisition of sound velocity profile data from an underway vessel and significantly increases multibeam survey efficiency by acquiring highly accurate automated sound velocity profile data in the critical 0-400m water layer.		
TIME DISTRIBUTION SYSTEM Time is distributed via telephone, modem, Global Positioning System (GPS), Two Way Satellite Time Transfer (TWSTT). Funding is for distribution systems necessary to transfer and distribute time to users. This consists of receivers systems for M Code receiver systems, Two Way Satellite Time Transfer systems, Precise Time and Time Interval measuring systems, Critical Time Dissemination (CTD), NextGen Secure TWSTT, and other systems to distribute precise time.		
VERY LONG BASELINE INTERFEROMETRY SYSTEM Systems to be purchased here are antennas, radio receivers, Radio Frequency (RF) to digital conversion systems, wide band communication systems, and correlators to process wide-band data obtained at sites separated by thousands of kilometers. Very Long Baseline Interferometry data monitors variations in the Earth's orientation and form the basis for the fundamental celestial reference frame, and supports DoD and national requirements for Space Situational Awareness.		
AIRBORNE LIDAR SYSTEM The Coastal Zone Mapping and Imaging LIDAR (CZMIL) replaces the Compact Hydrographic Airborne Rapid Total Survey (CHARTS) system. CZMIL is an aircraft mounted Light Detection and Ranging (LIDAR) system used to conduct expeditionary and rapid response hydrographic surveys in near-shore areas and areas inaccessible by ship or survey launch. Routine life cycle replacement maintains technology refresh, precludes obsolescence of equipment and repair parts/maintenance, and maintains survey reliability.		
DEEP MULTIBEAM REPLACEMENT The full ocean multibeam sonar system is the primary ship-mounted ocean mapping tool used for surveys in water depths greater than 300 meters to full ocean. The deep-water multibeam system is a state-of-the-art, commercial, one-by-one degree system with a maximum swath coverage of six times water depth. The multibeam survey system includes an integrated deep water sub-bottom profiler system. The system will be installed on all T-AGS 60 class ships as a life-cycle replacement for the existing deep water multibeam system (EM121A). The deep water multibeam system (EM121A) has exceeded its life expectancy and will no longer be supported by the manufacturer. Multibeam systems collect deep-water bathymetry data required to support special chart production for the Navy. If the deep-water multibeam systems are not replaced, the T-AGS 60 ships will lose the capability to support the Navy's requirement for deep and mid-water bathymetry data products.		
SHALLOW WATER MULTIBEAM The shallow water multibeam sonar system is the primary sea-floor mapping system in the littoral (50-500 meters of water). Without this data: 1) surface and sub-surface littoral navigation charts would not be updated with accurate, high resolution bathymetry, 2) high-resolution littoral bathymetry required for running ocean (currents, waves, tides) models supporting anti-submarine warfare, naval special warfare and mine warfare applications would not be available and 3) high-resolution littoral bathymetry required for running acoustic models for anti-submarine warfare would not be available.		
SHALLOW WATER SEISMIC SYSTEM Lifecycle replacement and upgrades to seismic systems are needed to meet existing requirements for geophysical measurements in shallow to mid-depth water environments. The systems will be roll-on/roll-off systems and consist of a sub-bottom profiler for medium to deep sub-bottom measurements. These systems are designed to meet requirements for geophysical measurements to support geophysical database construction. These databases are an essential part of acoustic prediction systems and support to Anti-Submarine Warfare (ASW) mission planning, execution, and prosecution.		
OPN OCO - Timing, Time Transfer and Earth Orientation Parameters (EOP) OCO - Funding is associated with the European Deterrence Initiative and will support an X-band "hop station" on the east coast of CONUS to relay Two Way Satellite Time Transfer (TWSTT) services from the Alternate Master Clock to the EUCOM AOR. The newly established TWSTT services will increase the robustness of the highest level timing support into EUCOM by allowing failover to the alternate authoritative timing source for the DOD. Currently, USNO's Alternate Master Clock cannot reach the EUCOM AOR with TWSTT services. The Navy, through USNO can improve the robustness of EUCOM timing support over SATCOM channels with this one-time upgrade of satellite based timing distribution on the east coast of CONUS.		
OPTSEO - Timing, Time Transfer, EOP Delivery - This conglomerate system consists of a series of high accuracy clocks and instrumentation assets that generate crucial parameters for Global Positioning System (GPS), including time and EOPs. Included in the time generation, time transfer and EOP delivery system are Rubidium (Rb) Fountain Clocks, which are advanced, non-commercial atomic clocks that		

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Line Item MDAP/MAIS Code: N/A		
are based on laser cooling and trapping of atoms; hydrogen masers; precise time measurement systems; amplifiers; and environmental conditioning chambers and clean rooms to maintain precise temperature and humidity controls, a distribution amplifiers antennae and associated equipment, transceivers, GPS Monitoring, and EOP instrumentation. Tech refreshes, instrumentation upgrades, and modernization of components are crucial for maintaining time and EOP standards in accordance with CJCSI 6130.01F, which dictates USNO's responsibility to coordinate Precise Time and Time Interval (PTTI) requirements and to maintain a PTTI reference standard (astronomical and atomic) for use by all DoD. This is a consolidation of 1.8) Master Clock Systems and 1.15) Time Distribution System. OPCRFM - Celestial Reference Frame (CRF) Management - As Manager, per DoDI 4650.06, the USNO is responsible for the determination of the CRF and EOP for the DoD. The celestial measurements that secure these two products are taken with high precision visible, infrared, and radio optics instrumentation. The USNO CRF aggregate system operates roughly 20 visible, infrared, and radio telescopes across the world to meet these requirements. Many of these systems require high performance computing assets that compile large data volumes of data and ready them for distribution to the community. This network of instrumentation, auxiliary electronics and computing systems require regular technical refreshes, instrumentation upgrades and component modernization to provide CRF data relevant to today's DoD programs. These include telescope component upgrades, electronics upgrades, next generation detector and camera development, cooling system facility upgrades and Software Correlator continuity of operations builds. These activities are all required to maintain the infrastructure that provides CRF and EOP data to DoD customers in an era of new surveillance, targeting, intelligence, and reconnaissance technologies and instrumentation. This is a consolidation of 1.16) Very Long Baseline Interferometry and 1.22) Navy Precision Optical Interferometer. EUROPEAN DETERRENCE INITIATIVE Acquisition and deployment of 100+ Profiling Floats to collect depth-varying water column data to improve Navy METOC ocean models. Acquisition of Maritime Acoustic Collection - Ocean Surveillance (MACOS) systems to collect data to build gridded bottom loss and ambient noise data bases. Both will inform Anti-Submarine Warfare area assessment products, and provide critical environmental input to fleet acoustic Tactical Decision Aids (TDAs). MACOS consists of an Advanced Capability Glider, hydrophone array(s), data storage and processing capability, associated oceanography information, communication hardware and software, and maintenance support systems. Contract physical scientist(s) for data validation and verification, and processing; technician(s) for MACOS deployment, recovery and maintenance; and logistician(s) to assist with MACOS and associated equipment storage and shipping. Acquire equipment and parts necessary to refurbish and maintain MACOS systems. Contract physical scientist(s) and/or technician(s) for Profiling Float deployment and logistician(s) for Profiling Float storage and shipping. Rigid Inflatable Boats (RIB) ISO Global Mine Warfare (MIW) Operations - Funding to support the purchase of (2) 8.5M Rigid Hull Inflatable Boats (RHIBs) to replace the Combat Rubber Rating Crafts (CRRCs) currently being utilized for global Unmanned Underwater Vehicle (UUV) inshore surveys. The larger RHIBs are required due to the CRRCs not being designed for offshore use thus unsafe/unreliable in offshore maritime conditions, and severely limit maneuverability through most sea-states which is unsuitable for the majority of UUV surveys. RHIBs are designed for offshore UUV survey requests. The RHIBs will greatly improve the ability to provide mission critical information aimed at protecting the Navy from underwater threats and support the increased naval demand in offshore operations. [P40A / Acoustic Measurement System]: Funding to support updated technology and capability changes. The new system will include an All-in-One underwater enclosure and anchoring system to the ocean floor. [P40A / Acoustic Positioning System (USBL)]: Acoustic Measurement System Lifecycle replacement and upgrade of digital acoustic measurement systems used to collect data used to build gridded data bases of layered geo acoustic descriptions of the ocean floor and low frequency bottom loss databases, collect fleet anti-submarine warfare support measurements, produce high resolution anti-submarine warfare area assessment products, and serve to provide critical environmental input to fleet acoustic transmission loss models. System consists of multi-channel variable depth buoys, shipboard data acquisition, control, and processing support systems. Buoys acquire the data, provide signal conditioning and gain, and store the data in digital form. [P40A / Digital Side Scan Sonar (SHIP)]: The digital side scan sonar systems are purchased as needed based on the life cycle replacement schedule for the T-AGS ships. In FY20, two Digital Side Scan Sonar are scheduled for life cycle replacement. [P40A / Integrated Sub Bottom Profiler]: The Integrated Sub Bottom Profiler is purchased as needed based on the life cycle replacement schedule. This replacement will enhance current outdated technology in the CENTCOM yard which in turn will provide high resolution digital acoustic data with precision positioning and navigational capacity for Mine Warfare mission. Increase from FY19 to FY20 is the need to procure two Sub Bottom Profilers in FY20 vice 1. In FY19, 1 Sub Bottom Profiler was procured. [P40A / Master Clock Systems]: The Navy's funds to support the United States Naval Observatory's (USNO) Operation Procurement, across all Cost Elements, is used for the life-cycle replacement of aging equipment. Therefore, USNO does not buy/replace the same equipment each year. While it may look like the costs are increasing, USNO is actually replacing different underlying components described in the description of each Cost Element description in the P-40. In each year, USNO is procuring different elements of the master clock system and the cost associated with these elements varies.		

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FY19 funding supports the procurement of another Life Cycle replacement of clock environmental chambers for temperature and humidity control and a Master Clock Measurement System which is a replacement of multi-channel backup clock measurements system to improve clock measurement precision. FY20 - Decrease is due to realignment of the cost element from Master Clock Systems to OPTSEO - Timing, Time Transfer, EOP Delivery. This requirement will better align requirement to exactly what is being procured. The Navy does not replace the Master Clock, rather update the elements within the clock. Therefore this realignment will be exude updating the equipments within the clock. [P40A / Time Distribution System]: The Navy's funds to support the USNO Operation Procurement, across all Cost Elements, is used for the life-cycle replacement of aging equipment. Therefore, Navy's Observatory Command does not buy/replace the same equipment each year. While it may look like the costs are increasing, USNO is actually replacing different underlying components described in the description of each Cost Element description. In each year, USNO is procuring different elements of the Time Distribution System and the cost associated with these elements are different. FY19 funding supports the procurement of Next Generation transceivers for time transfer and Next Generation GPS III receivers. Time Distribution System realign to the cost element OPTSEO - Timing, Time Transfer, EOP Delivery. [P40A / Airborne Lidar System]: The Coastal Zone Mapping and Imaging LIDAR (CZMIL) replaces the Compact Hydrographic Airborne Rapid Total Survey (CHARTS) system. CZMIL is an aircraft mounted LIDAR system used to conduct expeditionary and rapid response hydrographic surveys in near-shore areas and areas inaccessible by ship or survey launch. Routine life cycle replacement maintains technology refresh, precludes obsolescence of equipment and repair parts/maintenance, and maintains survey reliability. [P40A / Deep Multibeam Replacement]: The cost of equipment associated with the Deep Water Multi-beam replacement fluctuates from year to year depending on the vessel being upgraded. There are six T-AGS Oceanographic Ships deployed at any given time year round. The unit costs are dependent upon many factors such as whether we are purchasing an entirely new system, upgrades/lifecycle replacement of equipment, software or hardware components of the systems, etc. Install cost is also dependent on when and where the equipment is to be installed (CONUS or OCONUS). Increase between FY19 to FY20 is due to the of procurement of a new system and vessel at a higher cost based on the T-AGS Oceanographic Ships. [P40A / Shallow Water Multibeam]: Increase due to higher unit cost, caused by inflation, which will support updating the shallow water multi-beam sonar system. Shallow water multi-beam is the primary sea-floor mapping system in the littoral (50-500 meters of water). [P40A / Shallow Water Seismic System]: The shallow water seismic system is scheduled to be upgraded to meet requirements for geophysical measurements in shallow to mid-depth water environment. FY19 funding to support upgrades to shallow water seismic system for geophysical measurements in shallow to mid-depth water environment. [P40A / OCO Timing, Time Transfer and EOP]: European Deterrence Initiative and will support an X-band "hop station" on the east coast of CONUS to relay Two Way Satellite Time Transfer (TWSTT) services from the Alternate Master Clock at Schriever AFB to the EUCOM AOR. This is for Cape Canaveral, where USNO already has TWSTT operations in support of local missions. This will increase the robustness of the highest level timing support into EUCOM by allowing failover to the alternate authoritative timing source for the DOD. The U.S. Naval Observatory (USNO) provides the common time reference for all of the DOD per CJCSI 6130.01E. USNO's primary site in Washington, DC can provide TWSTT services to the EUCOM AOR over both Ka- and X-band satellites. USNO's Alternate Master Clock at Schriever AFB, CO cannot reach the EUCOM AOR with TWSTT services. The Navy, through USNO can improve the robustness of EUCOM timing support over SATCOM channels with this one-time upgrade of satellite based timing distribution on the east coast of CONUS. [P40A / OPTSEO Timing, Time Transfer, EOP Delivery]: The cost element OPTSEO Timing, Time Transfer, EOP Delivery (CE 1.32) is a realignment of Master Clock Systems (CE 1.8) and Time Distribution System (CE 1.15) starting in FY20. The combined cost element allows for the proper representation of the items associated with the Master Clock Systems (CE 1.8) and Time Distribution System (CE 1.15) moving forward.		

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FY20 funds will be used to procure fifty (50) HVAC replacement units, pulsed laser system for optical lattice clocks, continuous wave laser system for time and frequency distribution, and multi-channel measurement system & GPS III Monitoring.		
[P40A / OPCRFM Celestial Reference Frame (CRF) Management]: Newly created cost element to represent Very Long Baseline Interferometry. Funds for Very Long Baseline Interferometry realigned to Celestial Reference Frame (CRF) Management. In FY21, funds will support EOP Software Correlator solid state storage replacement.		
[P40A / NAVIFOR MILCON P-001 Precise Time and Astrometry Network (PTA Network)]: The Naval Observatory Master Clock Facility is located at USNO Washington, D.C. The site provides a wide range of astronomical data and products and serves as the official source of time of the U.S Department of Defense and a standard of time for the entire United States. The current configuration of the operation facilities is the result of decades of patchwork and ad hoc designs, resulting in numerous force protection, power and communication single-point vulnerabilities. A low-rise master time clock facility, housing the master clock, mission operations center and Earth Orientation Parameter Center (EOPC) is scheduled to be completed in the next five years. to upgrade the facility to modern standards and ensure redundancy in all systems. Funds in this element will be used to outfit the new building (Building 51) to allow for the installation of mission equipment for the Master Clock and Earth Orientation equipment, as well as support the relocation of USNO's specialized mission and scientific equipment. Equipment/Furnishings will include but is not limited to: equipment racks, electronics equipment, display monitors and other various furnishings. Note that equipment in each fiscal year varies based on the schedule of the building construction and the activity (e.g. outfitting vs. relocation expenses).		
Precise Time and Astrometry Network (PTA Network) Shore Based Enterprise Network Enhancements: P-001 Master Time Clocks & Ops Facility, Washington D.C.: Funds the outfitting of building (P-001) to allow for the installation of mission equipment for the Master Clock and Earth Orientation. Relocating USNO's mission equipment will require specialized equipment to move the clocks and correlator, a variety of new equipment racks, display monitors, and other various furnishings.		
[P40A / Long Term Ambient Noise Recording & Reporting System]: FY19 funds procure and deploy sensors to increase collection and modeling requirements for ambient noise and acoustic signatures. Increase will provide Theater Commanders with enhanced capability to assess physical battlespace and leverage the environment.		
[P40A / European Deterrence Initiative]: European Deterrence Initiative Acquisition and deployment of 100+ Profiling Floats to collect depth-varying water column data to improve Navy METOC ocean models. Acquisition of Maritime Acoustic Collection - Ocean Surveillance (MACOS) systems to collect data to build gridded bottom loss and ambient noise data bases. Both will inform Anti-Submarine Warfare area assessment products, and provide critical environmental input to fleet acoustic Tactical Decision Aids (TDAs). MACOS consists of an Advanced Capability Glider, hydrophone array(s), data storage and processing capability, associated oceanography information, communication hardware and software, and maintainance support systems. Contract physical scientist(s) for data validation and verification, and processing; technician(s) for MACOS deployment, recovery and maintenance; and logistician(s) to assist with MACOS and associated equipment storage and shipping. Acquire equipment and parts necessary to refurbish and maintain MACOS systems. Contract physical scientist(s) and/or technician(s) for Profiling Float deployment and logistician(s) for Profiling Float storage and shipping.		
[P40A / Rigid Hull Inflatable Boats - Global Mine]: The Fleet requires the purchase of two (2) 8.5 meter Rigid Hull Inflatable Boats (RHIBs) to replace the Combat Rubber Raiding Crafts (CRRCs) currently being utilized for global Unmanned Underwater Vehicle (UUV) inshore surveys. The current inventory is near the end of its service life. Due to increased Fleet demand in offshore operations, larger vessels are required due to the CRRCs being unsafe and unreliable in offshore maritime conditions. Funding supports the purchase of two (2) RHIBs.		
[P40A / Precise Time and Astrometry Network (PTA Network)]: Precise Time and Astrometry Network (PTA Network) is the network supporting the Master Clock at the United States Naval Observatory (USNO) and the Alternate Master Clock (AMC) located in Colorado Springs, CO. The time derived from USNO, known as Coordinated Universal Time (UTC (USNO)) is the primary time reference for the Department of Defense. The network also supports USNO's determination of the Celestial Reference Frame (CRF) as well as Earth Orientation Parameters (EOP). Together, this data provides essential mission critical information for navigation, orientation, targeting and weapons guidance, tracking of space-based platforms, and identification of space objects. Funding is required to remediate critical cyber security vulnerabilities on USNO networks, to include the PTA Network. Funding is for equipment modernization necessary to maintain the required security posture and ensure the resiliency of the PTA Network, which is of strategic importance for the execution of tactical operations. The PTA Network is composed of one network unit with ground sites in Washington, D.C., Colorado Springs, CO, and Flagstaff, AZ. Task Force Cyber Awakening (TFCA) was established to comprehensively address cyber security across the entire Navy cyber platform.		
[P40A / Primary Oceanographic Prediction Sys (POPS) & Oceanogr. Info Sys (OIS)]: OIS12 - Primary Oceanographic Prediction System (POPS)-Meteorology (Met) provides the key production engine enabling global METOC support of the fleet. The required technology refreshment includes enhancements of the POPS-Met hardware and software, models suite, observational data ingest capability, data distribution		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8126 / Environmental 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 capability, and reach back customer support. The Oceanographic Information System (OIS) Architecture OPN funding profile is the result of an IT and non-IT re-capitalization effort led by Commander, Naval Meteorology and Oceanography Command (CNMOC) N8 and approved by CNMOC leadership. It has since been used as a basis for planning our IT upgrades through the FYDP. [P40A / MILCON P-001 Precise Time and Astrometry Network (PTA Network)]: is a Shore Based Enterprise Network Enhancement; P-001 Master Time Clocks & Ops Facility is located in Washington D.C. These funds support the outfitting of building (P-001) required to support the Master Clock at the United States Naval Observatory (USNO) providing primary time reference for the Department of Defense. The network also supports USNO's determination of the Celestial Reference Frame (CRF) as well as Earth Orientation Parameters (EOP). Relocating USNO's mission equipment will require specialized equipment to move the clocks and correlator, a variety of new equipment racks, display monitors, and other various furnishings.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8126 / Environmental 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										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Environmental Support Equipment	P-5a			- / 109.438	- / 30.644	- / 34.101	- / 21.986	- / 0.200	- / 22.186
P-40	Total Gross/Weapon System Cost				- / 109.438	- / 30.644	- / 34.102	- / 21.986	- / 0.200	- / 22.186
*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: The 8126 Line Item procures entire systems; however, the unit costs are dependent upon whether purchasing an entire brand new system or if purchasing upgrades/lifecycle replacement of equipment, software or hardware components of the systems. Installation unit costs are highly dependent on the location of the shipyard. Replacement costs vary each year depending on the requirements. 1.1 - ACOUSTIC MEASUREMENT SYSTEM The Acoustics Measurement System was last purchased in FY12 and FY17. The new system will consist of an All-in-One underwater enclosure and anchoring system to the ocean floor. Due to an increase in acoustic surveys, a second system has been programmed to be purchased in FY20. Increase from FY19 to FY20 is due to technology and capability changes required to the current system in place. 1.2 - ACOUSTIC POSITIONING SYSTEM Increase between FY19 and FY20 is to support the System used to provide high accuracy navigation and location of towed bodies and Autonomous Underwater Vehicles (AUVs) deployed from oceanographic survey vessels. 1.3 - Digital Side Scan Sonar (SHIP) The digital side scan sonar systems are purchased as needed based on the life cycle replacement schedule for the T-AGS ships. Increase from FY19 to FY20 is due to the scheduled life cycle replacement and update of two Digital Side Scan Sonars. 1.4 - Fleet Survey Team (FST) Integrated Survey Platform Decrease from FY19 to FY20 is due to no scheduled procurement of FST transportable hydrographic survey platform systems. 1.6 - Integrated Sub Bottom Profiler The Integrated Sub Bottom Profiler is purchased as needed based on the life cycle replacement schedule. The replacement will enhance current outdated technology which will provide high resolution digital acoustic data with precision positioning and navigational capacity for Mine Warfare mission. Increase from FY19 to FY20 is to procure two (2) Sub Bottom Profilers in FY20. 1.8 - Master Clock: FY20 - Decrease is due to realignment of cost element from Master Clock Systems to OPTSEO - Timing, Time Transfer, EOP Delivery (element of cost - 1.32). This requirement will better align requirement to exactly what is being procured. The Navy does not replace the Master Clock rather update the elements within the clock. 1.15 - Time Distribution System: Time Distribution System realign to cost element of OPTSEO - Timing, Time Transfer, EOP Delivery. The Department's funds to support the United States Naval Observatory's (USNO) Operation Procurement, across all Cost Elements, is used for the life-cycle replacement of aging equipment. Therefore, Navy's Observatory Command does not buy/replace the same equipment each year. While it may look like the costs are increasing, USNO is actually replacing different underlying components described in the description of each Cost Element. In each year, USNO is procuring different elements of the Time Distribution System and the cost associated with these elements are different.										

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8126 / Environmental 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		
1.17 - Airborne Lidar System: The Coastal Zone Mapping and Imaging LIDAR (CZMIL) replaces the Compact Hydrographic Airborne Rapid Total Survey (CHARTS) system. CZMIL is an aircraft mounted LIDAR system used to conduct expeditionary and rapid response hydrographic surveys in near-shore areas and areas inaccessible by ship or survey launch. Routine life cycle replacement maintains technology refresh, precludes obsolescence of equipment and repair parts/maintenance, and maintains survey reliability. Life cycle maintenance is required in FY19 however not in FY20. 1.18 - Deep Multibeam Replacement: The cost of equipment associated with the Deep Water Multi-beam replacement fluctuates from year to year depending on the vessel being upgraded. There are six T-AGS Oceanographic Ships deployed at any given time year round. The unit costs are dependent upon many factors such as whether we are purchasing an entirely new system, upgrades/lifecycle replacement of equipment, software or hardware components of the systems, etc. Install cost is also dependent on when and where the equipment is to be installed (CONUS or OCONUS). Increase between FY19 to FY20 is reflective of procurement of a new system, vessel, at a higher cost (based on the T-AGS Oceanographic Ships). 1.20 - Shallow Water Multibeam: Increase between FY19 to FY20 due to higher unit cost which supports updating the shallow water multibeam sonar system. Shallow water multibeam is the primary sea-floor mapping system in the littoral (50-500 meters of water). 1.21 - Shallow Water Seismic System: The last life cycle replacement associated with the shallow water seismic system was completed in FY15. In FY19, the shallow water seismic system is scheduled to be upgraded to meet requirements for geophysical measurements in shallow to mid-depth water environment. No upgrade is required in FY20. 1.28 - OPTSEO - Timing, Time Transfer, EOP Delivery Newly created cost element to properly represent Master Clock Systems (CE 1.8) and Time Distribution System (CE 1.15). In FY20, Master Clock Systems (CE 1.8) and Time Distribution System (CE 1.15) were realigned to OPTSEO Timing, Time Transfer, EOP Delivery (CE 1.28). Overall, decrease between FY19 and FY20 will impact USNO Building 50 HVAC unit replacement - unit 1 of 2, Pulsed laser system for Optical Lattice Clocks, Continuous wave Laser System for Time and Frequency Distribution, and Multi-channel Measurement System & Global Positioning System (GPS) III Monitoring. 1.29 - Celestial Reference Frame (CRF) Management Newly created cost element to represent Very Long Baseline Interferometry. Funds for Very Long Baseline Interferometry realigned to Celestial Reference Frame (CRF) Management. 1.30 - MILCON P-001 PTA Network: FY20 funds support the outfitting of a building (P-001) to house the USNO network to include planning, design, relocation, procurement, and installation of mission related equipment. It will also support installation and technical refresh necessary to maintain and enhance the required security of the modernized network as a result of technical obsolescence as well as critical cyber and physical vulnerabilities. Additionally, funds will support application migration efforts to the modernized network to enhance cyber resiliency and security posture associated with precise time and earth orientation, mission critical information for navigation, orientation, targeting and weapons guidance, tracking of space-based platforms, and identification of space objects. FY20 funds will support hardware and software technical refresh of the PTA Network which is composed of one network unit with ground sites in Washington, D.C., Colorado Springs, CO, and Flagstaff, AZ. FY20 funds will support hardware and software technical refresh of the PTA Network which is composed of one network unit with ground sites in Washington, D.C., Colorado Springs, CO, and Flagstaff, AZ. Decrease from FY19 to FY20 is due to support equipment procurement associated with transitioning to the second phase of C4I outfitting for the MILCON. 1.31 - Long Term Ambient Noise Recording and Reporting System FY19 funds will procure and deploy sensors to increase collection and modeling requirements for ambient noise and acoustic signatures. Funding provides Theater Commanders with enhanced capability to assess physical battlespace and leverage the environment. FY20 funding is not required. 1.33 - European Deterrence Initiative		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8126 / Environmental 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 Funds support the acquisition and deployment of profiling floats that collect depth-varying water column data and Maritime Acoustic Collection - Ocean Surveillance (MACOS) systems that collect data to build gridded bottom loss and ambient noise data bases. Both inform Anti-Submarine Warfare area assessment products, and provide critical environmental input to fleet acoustic Tactical Decision Aids (TDAs). This newly created cost element will support Intelligence, Surveillance and Reconnaissance (ISR) missions within the NAVEUR AOR.		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy																Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2									P-1 Line Item Number / Title: 8126 / Environmental Support Equipment							Aggregated Items Title: Environmental Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total			
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
1) Environmental Support Equipment																					
1.1) Acoustic Measurement System (1)	A		0.471	4	1.883	-	-	-	-	-	-	0.585	1	0.585	-	-	-	0.585	1	0.585	
1.2) Acoustic Positioning System (USBL) (2)	A		0.524	5	2.619	-	-	-	-	-	-	0.600	1	0.600	-	-	-	0.600	1	0.600	
1.3) Digital Side Scan Sonar (SHIP) (3)(†)	A		0.687	7	4.812	0.350	1	0.350	0.517	1	0.517	0.357	2	0.714	-	-	-	0.357	2	0.714	
1.4) Fleet Survey Team (FST) Integrated Survey Platform (4)(†)	A		0.840	2	1.680	0.919	1	0.919	0.870	1	0.870	-	-	-	-	-	-	-	-	-	
1.5) HSL Mission Equipment (Installation)(†)	A		0.628	11	6.904	0.500	1	0.500	-	-	-	-	-	-	-	-	-	-	-	-	
1.6) Integrated Sub Bottom Profiler (5)(†)	A		0.597	2	1.194	0.750	1	0.750	0.775	1	0.775	0.765	2	1.530	-	-	-	0.765	2	1.530	
1.7) Long Term Ambient Noise Recording & Reporting System baseline	A		0.400	1	0.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.8) Master Clock Systems (6)(†)	A		0.435	12	5.217	0.775	1	0.775	1.795	1	1.795	-	-	-	-	-	-	-	-	-	
1.9) OIS Architecture	A		1.554	7	10.876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.10) POPS	A		2.313	8	18.506	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.11) Portable Multibeam Replacement	A		0.654	4	2.617	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.12) POPS-MET Enhancements	A		3.285	7	22.998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.13) POPS Enhancements	A		2.240	2	4.480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.14) Ship Moving Vessel Profiler (MVP)	A		0.610	2	1.220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.15) Time Distribution System (7)(†)	A		0.751	6	4.507	0.692	2	1.383	1.737	1	1.737	-	-	-	-	-	-	-	-	-	
1.16) Very Long Baseline Interferometry(†)	A		0.597	5	2.983	1.126	1	1.126	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8126 / Environmental Support Equipment								Aggregated Items Title: Environmental Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
1.17) Airborne Lidar System ^{(8)(t)}	A		-	-	-	-	-	-	1.352	1	1.352	-	-	-	-	-	-	-	-	-
1.18) Deep Multibeam Replacement ^{(9)(t)}	A		3.726	1	3.726	4.456	1	4.456	3.395	1	3.395	4.219	1	4.219	-	-	-	4.219	1	4.219
1.19) Near Real-Time Profiling Arrays	A		0.834	1	0.834	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.20) Shallow Water Multibeam ^{(10)(t)}	A		1.014	1	1.014	1.134	1	1.134	1.170	1	1.170	1.189	1	1.189	-	-	-	1.189	1	1.189
1.21) Shallow Water Seismic System ^{(11)(t)}	A		0.368	2	0.736	-	-	-	0.593	1	0.593	-	-	-	-	-	-	-	-	-
1.22) Navy Precision Optical Interferometer ^(t)	A		1.040	2	2.080	0.959	1	0.959	-	-	-	-	-	-	-	-	-	-	-	-
1.23) Task Force Cyber Awakening (TFCA) - U.S. Naval Observatory	A		6.068	1	6.068	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.24) Advanced Weather Interactive Processing System (AWIPS)	A		1.229	1	1.229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25) SUS CONTAINER {60} ^(t)	A		-	-	-	0.370	1	0.370	-	-	-	-	-	-	-	-	-	-	-	-
1.26) SSBN Support {60} ^(t)	A		-	-	-	0.400	1	0.400	-	-	-	-	-	-	-	-	-	-	-	-
1.28) OPTSEO Timing, Time Transfer, EOP Delivery ^{(12)(t)}	A		-	-	-	-	-	-	-	-	-	2.630	1	2.630	-	-	-	2.630	1	2.630
1.30) NAVIFOR MILCON P-001 Precise Time and Astrometry Network (PTA Network) ^{(13)(t)}	A		-	-	-	-	-	-	2.945	1	2.945	1.163	1	1.163	-	-	-	1.163	1	1.163
1.31) Long Term Ambient Noise Recording & Reporting System ^{(14)(t)}	A		-	-	-	-	-	-	1.500	1	1.500	-	-	-	-	-	-	-	-	-
1.33) European Deterrence Initiative ^{(15)(t)}	A		-	-	-	-	-	-	-	-	-	-	-	0.000	0.200	1	0.200	0.200	1	0.200

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8126 / Environmental Support Equipment								Aggregated Items Title: Environmental Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
1.34) Rigid Hull Inflatable Boats - Global Mine ^{(16)(†)}	A		-	-	-	-	-	-	0.350	2	0.700	-	-	-	-	-	-	-	-	-
1.35) MACOS Unmanned Hydrographic UUV ^(†)	A		-	-	-	6.000	1	6.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Environmental Support Equipment			-	-	108.583	-	-	19.122	-	-	17.349	-	-	12.630	-	-	0.200	-	-	12.830
2) SPAWAR Environmental Support Equipment																				
2.1) Precise Time and Astrometry Network (PTA Network) ^{(17)(†)}	A		0.855	1	0.855	2.010	1	2.010	7.177	1	7.177	1.626	1	1.626	-	-	-	1.626	1	1.626
2.2) Primary Oceanographic Prediction Sys (POPS) & Oceanogr. Info Sys (OIS) ⁽¹⁸⁾	A		-	-	-	-	-	9.512	-	-	9.575	-	-	5.648	-	-	-	-	-	5.648
2.3) MILCON P-001 Precise Time and Astrometry Network (PTA Network) ^{(19)(†)}	A		-	-	-	-	-	-	-	-	-	2.082	1	2.082	-	-	-	2.082	1	2.082
Subtotal: 2) SPAWAR Environmental Support Equipment			-	-	0.855	-	-	11.522	-	-	16.752	-	-	9.356	-	-	-	-	-	9.356
Total			-	-	109.438	-	-	30.644	-	-	34.101	-	-	21.986	-	-	0.200	-	-	22.186
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⁾ A second system to be purchased in FY20 due to an increase in acoustic surveys.																				
⁽²⁾ FY20 increase is due to required lifecycle replacement and upgrade of digital acoustic measurement systems.																				
⁽³⁾ Increase from FY19 to FY20 is due to the scheduled life cycle replacement and update of two Digital Side Scan Sonars. The FY20 procurement does not include spare parts therefore the unit cost in FY20 is lower compared to FY19 procurement which did include spare parts and was for 1 vessel.																				
⁽⁴⁾ FY19 request is for one boat. Decrease from FY19 to FY20 is due to no scheduled procurement of FST platform/boat.																				
⁽⁵⁾ Decrease from FY19 to FY20 is due to no scheduled procurement.																				
⁽⁶⁾ FY19 funding supports a replacement of multi-channel backup clock measurements system to improve clock measurement precision. FY20 decrease is due to an element of cost realignment from Master Clock Systems to OPTSEO - Timing, Time Transfer, EOP Delivery.																				
⁽⁷⁾ Funding supports the procurement of next generation transceivers for time transfer and next generation GPS III receivers. Time Distribution System realigned to cost element OPTSEO - Timing, Time Transfer, EOP Delivery.																				
⁽⁸⁾ Life cycle maintenance is not required in FY20.																				
⁽⁹⁾ Increase between FY19 to FY20 is due to the procurement of a new system and vessel at a higher cost (based on the T-AGS Oceanographic Ships).																				
⁽¹⁰⁾ Increase due to inflation that caused higher unit costs.																				
⁽¹¹⁾ Decrease from FY19 to FY20 is due to no scheduled upgrade required.																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8126 / Environmental Support Equipment	Aggregated Items Title: Environmental Support Equipment
(12) Newly created cost element to properly represent Master Clock Systems (CE 1.8) and Time Distribution System (CE 1.15). In FY20, Master Clock Systems (CE 1.8) and Time Distribution System (CE 1.15). (13) FY20 Funds required for the outfitting of a building (P-001) to house the USNO network to include planning, design, relocation, procurement, and installation of mission related equipment. (14) Decrease from FY19 to FY20 is due to no scheduled procurement. (15) Funds support the acquisition and deployment of profiling floats that collect depth-varying water column data and Maritime Acoustic Collection - Ocean Surveillance (MACOS) systems that collect data to build gridded bottom loss and ambient noise data bases. (16) Decrease from FY19 to FY20 is due to no scheduled procurement. (17) PTA79 - Precise Time and Astrometry Network (PTA Network) quantity is composed of one network unit with three ground sites (Washington, D.C.; Colorado Springs, CO; and Flagstaff, AZ) undergoing recurring technical refreshes. FY20 PTA Network funds will continue to support technical refresh which are necessary to maintain and enhance the required security of the modernized network as a result of technical obsolescence as well as critical cyber and physical vulnerabilities. Additionally FY19 funds will support application migration and modernization efforts to enhance cyber resiliency and security posture associated with precise time and earth orientation, mission critical information for navigation , orientation, targeting and weapons guidance, tracking of space-based platforms, and identification of space objects. (18) In keeping with DoD and POPS guidelines, the OPN budget for lifecycle replacement due to equipment obsolescence, End-of-Life/End-of-Support (EoL/EoS) issues, and new technology insertion, was planned assuming a 3-4 year replacement cycle, with 25-30% of the system components replaced each year without increasing the server footprint. Replacing the EoL/EoS POPS-Met system components with High Performance Computing (HPC) technology, data storage requirements, and the high-speed network connections between the computing and storage components is both complicated and expensive. New generations of HPC equipment and infrastructure components are required to meet the expanding FLENUMMETOCEN mission and cyber security requirements. In accordance with the POPS-Met System Integration Master Plan (SIMP), the storage, networking, and compute nodes/memory are replaced on a four year cycle. FY20 budget will support required technology refresh. (19) Funds support relocating USNO's mission equipment that require specialized equipment to move the clocks and correlator, a variety of new equipment racks, display monitors, and other various furnishings.		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2			P-1 Line Item Number / Title: 8126 / Environmental Support Equipment						Aggregated Items: Environmental 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 (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Environmental Support Equipment												
1.3) Digital Side Scan Sonar (SHIP) (3)		2018	Klein / Edge Tech / UNKNOWN	C / FP	Stennis Space Center, MS	Jul 2018	Nov 2018	1	0.350	N	Nov 2018	
1.3) Digital Side Scan Sonar (SHIP) (3)		2019	Klein / Edge Tech / UNKNOWN	C / FP	Stennis Space Center, MS	Jul 2019	Nov 2019	1	0.517	Y		
1.3) Digital Side Scan Sonar (SHIP) (3)		2020	Klein / Edge Tech / UNKNOWN	C / FP	Stennis Space Center, MS	Jul 2020	Jul 2020	2	0.357	N	Nov 2020	
1.4) Fleet Survey Team (FST) Integrated Survey Platform (4)		2018	SeaArk Inc. / Arkansas	C / FP	NAVSEA	Mar 2018	Mar 2018	1	0.919	Y		
1.4) Fleet Survey Team (FST) Integrated Survey Platform (4)		2019	SeaArk Inc. / Arkansas	C / FP	NAVSEA	Mar 2019	Mar 2019	1	0.870	Y		
1.5) HSL Mission Equipment (Installation)		2018	Kongsberg, Reson & Applanix / UNKNOWN	C / FP	SPAWAR	Mar 2018	Jul 2018	1	0.500	Y		
1.6) Integrated Sub Bottom Profiler (5)		2018	Kongsberg / Lynnwood, WA	MIPR	DCSP	Mar 2018	Jul 2018	1	0.750	Y		
1.6) Integrated Sub Bottom Profiler (5)		2019	Kongsberg / Lynnwood, WA	MIPR	DCSP	Jul 2019	Nov 2019	1	0.775	Y		
1.6) Integrated Sub Bottom Profiler (5)		2020	Kongsberg / Lynnwood, WA	MIPR	DCSP	Oct 2019	Oct 2019	2	0.765	Y		
1.8) Master Clock Systems (6)		2018	FLC / Philadelphia	C / FP	FLC-Philadelphia	Feb 2018	May 2018	1	0.775	Y		
1.8) Master Clock Systems (6)		2019	FLC / Philadelphia	C / FP	FLC-Philadelphia	Feb 2019	May 2019	1	1.795	Y		
1.15) Time Distribution System (7)		2018	FISC / FISC	C / FP	FISC	Oct 2017	Oct 2017	1	0.383	Y		
1.15) Time Distribution System (7)	✓	2018	FISC / FISC	C / FP	FISC	Oct 2018	Oct 2018	1	1.000	Y		
1.15) Time Distribution System (7)		2019	FISC / FISC	C / FP	FISC	Oct 2019	Oct 2019	1	1.737	Y		
1.16) Very Long Baseline Interferometry		2018	DLA / Philadelphia, PA	MIPR	Philadelphia, PA	Aug 2018	Oct 2018	1	1.126	Y		
1.17) Airborne Lidar System (8)		2019	Corp of Engineers / Arlington, VA	C / FP	** NO PCO **	Mar 2019	Mar 2019	1	1.352	N	Jun 2019	
1.18) Deep Multibeam Replacement (9)		2018	Kongsberg / Lynnwood, WA	MIPR	DCSP	Aug 2018	Jan 2019	1	4.456	Y		
1.18) Deep Multibeam Replacement (9)		2019	Kongsberg / Lynnwood, WA	MIPR	DCSP	Aug 2019	Jan 2020	1	3.395	Y		
1.18) Deep Multibeam Replacement (9)		2020	Kongsberg / Lynnwood, WA	MIPR	DCSP	Oct 2019	Oct 2019	1	4.219	Y		
1.20) Shallow Water Multibeam (10)		2018	Kongsberg / Lynnwood, WA	C / FP	NAVO	Aug 2018	Jan 2019	1	1.134	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8126 / Environmental Support Equipment				Aggregated Items: Environmental 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 (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.20) Shallow Water Multibeam ⁽¹⁰⁾		2019	Kongsberg / Lynnwood, WA	C / FP	NAVO	Aug 2019	Jan 2020	1	1.170	Y		
1.20) Shallow Water Multibeam ⁽¹⁰⁾		2020	Kongsberg / Lynnwood, WA	C / FP	NAVO	Oct 2019	Oct 2019	1	1.189	Y		
1.21) Shallow Water Seismic System ⁽¹¹⁾		2019	Naval Oceanographic Office / Stennis Space Center, MS	C / FP	NAVO	Oct 2018	Oct 2018	1	0.593	Y		
1.22) Navy Precision Optical Interferometer		2018	Lowell Observatory / Anderson Mesa, AZ	C / FP	FLC-Philadelphia	Jul 2018	Nov 2018	1	0.959	Y		
1.25) SUS CONTAINER {60}		2018	Multiple Sources / SPAWAR	C / FP	SPAWAR	May 2018	Jul 2018	1	0.370	Y		
1.26) SSBN Support {60}		2018	Leidos / Reston, VA	C / FP	NAVO	Oct 2018	Oct 2018	1	0.400	Y		
1.28) OPTSEO Timing, Time Transfer, EOP Delivery ⁽¹²⁾		2020	FLC / Philadelphia	C / FP	FISC	Mar 2020	Mar 2020	1	2.630	N	Mar 2020	
1.30) NAVIFOR MILCON P-001 Precise Time and Astrometry Network (PTA Network) ⁽¹³⁾		2019	FLC / FLC Philadelphia	MIPR	NSA	Jan 2019	Jan 2019	1	2.945	N	Oct 2019	
1.30) NAVIFOR MILCON P-001 Precise Time and Astrometry Network (PTA Network) ⁽¹³⁾		2020	FLC / FLC Philadelphia	MIPR	NSA	Oct 2019	Oct 2019	1	1.163	N		
1.31) Long Term Ambient Noise Recording & Reporting System ⁽¹⁴⁾	✓	2019	SPAWAR / San Diego, CA	WR	SPAWAR, San Diego	Oct 2018	Oct 2018	1	1.500	N		
1.33) European Deterrence Initiative ⁽¹⁵⁾	✓	2020	NAVSEA / Navy Yard	C / FP	** NO PCO **	Oct 2019	Oct 2019	1	0.200	N		
1.34) Rigid Hull Inflatable Boats - Global Mine ⁽¹⁶⁾	✓	2019	United States Marine / Gulfport, MS	C / FFP	** NO PCO **	May 2019	May 2019	2	0.350	N	Nov 2019	
1.35) MACOS Unmanned Hydrographic UUV		2018	SPAWAR / San Diego, CA	WR	SPAWAR	Mar 2019	Mar 2019	1	6.000	N	Mar 2019	
2) SPAWAR Environmental Support Equipment												
2.1) Precise Time and Astrometry Network (PTA Network) ⁽¹⁷⁾		2018	SSC LANT / Charleston, SC	WR	SSC-LANT	Nov 2017	Jan 2018	1	2.010	Y		
2.1) Precise Time and Astrometry Network (PTA Network) ⁽¹⁷⁾		2019	SSC LANT / Charleston, SC	WR	SSC-LANT	Nov 2018	Jan 2019	1	7.177	Y		
2.1) Precise Time and Astrometry Network (PTA Network) ⁽¹⁷⁾		2020	SSC LANT / Charleston, SC	WR	SSCLANT	Nov 2019	Jan 2020	1	1.626	Y		
2.3) MILCON P-001 Precise Time and Astrometry Network (PTA Network) ⁽¹⁹⁾		2020	SSC Atlantic / Charleston, SC	C / TBD	TBD	Nov 2019	Jan 2020	1	2.082	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8126 / Environmental Support Equipment	Aggregated Items: Environmental Support Equipment

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8128 / Physical Security 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	973.952	139.972	194.825	160.046	1.300	161.346	140.384	120.775	113.140	117.880	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	973.952	139.972	194.825	160.046	1.300	161.346	140.384	120.775	113.140	117.880	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	973.952	139.972	194.825	160.046	1.300	161.346	140.384	120.775	113.140	117.880	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.119	-	-	-	-	-	-	-	-	-	0.119
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The FY 2020 funding request was reduced by \$6.583 million to account for the availability of prior year execution balances. FY 2020 funding totals include \$1.300 million that was realigned as part of the OCO for Base Requirements funding realignment in accordance with the Department's compliance with the Budget Control Act of 2011. This line item procures equipment to support the security and safety for the Department's assets worldwide. [P40A / MOBILE SECURITY FORCES - NCW ACTIVE COMPONENT]: Active and Reserve Component of the Coastal Riverine Force (CRF) (formerly Naval Coastal Warfare (NCW), Mobile Security Force (MSF), Maritime Expeditionary Security Force (MESF) and Riverine Force). CRF provides seaward surveillance and security forces in amphibious objective areas, harbors and approaches, straits, anchorages, offshore economic assets and other military areas worldwide. CRF fills current warfighting gaps by providing highly trained scalable and sustainable Security Teams capable of defending mission critical assets in the near coast environment. CRF units provide Ground Defense, Afloat Defense, Airfield/Aircraft Security and a wide range of secondary tasks from Detention Operations to Law Enforcement. Funding will provide prioritized initial outfitting for newly established Table of Allowance (TOA) requirements and procurement of centrally managed equipment to meet Required Operational Capabilities/Projected Operational Environment (ROC/POE) and Navy Mission Essential Tasks (NMET) including Visual Augmentation Systems (VAS) and Navy Non-Lethal Effects (NNLE) items. Specific NNLE systems include counter-personnel and counter-materiel capabilities such as acoustic hailing device, long-range ocular interrupter, and maritime vessel stopper, to assist warfighters with hostile intent determination of contacts of interest. [P40A / NAVAL COASTAL WARFARE FORCES-RES COMP (SEC FOR)]: Active and Reserve Component of the Coastal Riverine Force (CRF) (formerly Naval Coastal Warfare (NCW), Mobile Security Force (MSF), Maritime Expeditionary Security Force (MESF) and Riverine Force). CRF provides seaward surveillance and security forces in amphibious objective areas, harbors and approaches, straits, anchorages, offshore economic assets and other military areas worldwide. CRF fills current warfighting gaps by providing highly trained scalable and sustainable Security Teams capable of defending mission critical assets in the near coast environment. CRF units provide Ground Defense, Afloat Defense, Airfield/Aircraft Security and a wide range of secondary tasks from Detention Operations to Law Enforcement. Funding will provide prioritized initial outfitting for newly established TOA requirements and procurement of centrally managed equipment to meet Required Operational Capabilities/Projected Operational Environment (ROC/POE) and Navy Mission Essential Tasks (NMET) including Visual Augmentation Systems (VAS) and Navy Non-Lethal Effects items. [P40A / SSBN WATERFRONT RESTRICTED AREA SECURITY (WRAS)]: (X7001) SSBN WATERFRONT RESTRICTED AREA SECURITY (WRAS) This category provides for the security equipment required to guard and protect the TRIDENT II (D5) missile while the missile is in storage, being handled, or in a movement convoy to and from the waterfront at the Strategic Weapons Facility, Atlantic (SWFLANT) in												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8128 / Physical Security 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		
Kings Bay, GA and the Strategic Weapons Facility, Pacific (SWFPAC) in Bangor, WA. Funding supports the Limited Area Electronic Security Systems (ESS) refreshes, the Transit Protection System, Vehicle Barriers, the Command, Control, Communication, Computers, and Intelligence (C4I) system that provides security system, communication network, computers, security force command and control function as well as the Water Detection System and other equipment necessary to meet Nuclear Security requirements per DOD S-5210.41M (Nuclear Weapons Security Manual). [P40A / SSBN WATERFRONT RESTRICTED AREA SECURITY (WRAS)]: FY20 funding continues to support the Nuclear Weapons Security program providing security equipment required to guard and protect the TRIDENT II D5 missile. FY20 efforts include the procurement of harbor security boats to be located at Strategic Weapons Facility Atlantic (SWFLANT), Kings Bay, Georgia and Strategic Weapons Facility Pacific (SWFPAC), Bangor, Washington, radio communications equipment refresh, Perimeter Intrusion and Detection Assessment System (PIDAS) production and installation, procurement of miles gear and the a refresh of the Limited Area Electronic Security System (ESS) refresh at SWFPAC. [P40A / ANTI-TERRORISM/FORCE PROTECTION AFLOAT PHYSICAL SECURITY EQUIPMENT (ATFP PSE)]: Anti-terrorism/Force Protection (AT/FP) Physical Security Equipment (PSE) and Vessel Boarding Search and Seizure (VBSS) material are a compilation of specific security and AT related items intended for use by Ship's company aligned with Chief of Naval Operations (CNO's) objective for operation watch standers at pier side and perimeter posts. AT/FP PSE material is used to assist shipboard security forces in thwarting potential terrorist attacks and forms the base of security for shipboard personnel. VBSS PSE material enables surface forces to reach full MIO capability including interception, boarding, searching, diverting and /or seizing suspect vessels. Funding will provide Allowance Equipage List (AEL) items such as ballistic protective, Entry Control Point (ECP) screening, and communications equipment required in the performance of ATFP missions. [P40A / BIOMETRICS]: Funding will provide Navy developed Identity Dominance Systems (IDS), which will provide required biometrics capability to the Fleet surface ships for Visit, Board, Search and Seizure (VBSS) Enhanced Maritime Interception Operations (EMIO) by providing Maritime Domain Awareness (MDA) capability to download fused terrorism intelligence. The Navy's only Biometric Program of Record achieved Milestone C in October 2012, Full Rate Production in June 2013, Full Operational Capability in December 2016, and will be procuring systems to meet the Fleet's five-year requirement to refresh technology. [P40A / ENHANCED MARITIME INTERCEPTION OPERATIONS (EMIO)]: In response to JCS tasking, implemented Level II MIO Initial Operational Capability May 2005. The new MIO capability expands the operational spectrum for the Navy Overseas Contingency Operations ranging from compliant only to non-compliant boarding of threat vessels. MIO teams will be trained on new equipment, which will allow them to board vessels that refuse to comply with orders to stop and be searched. Funding will provide Allowance Equipage List (AEL) items such as ballistic protective, communications, boarding and breaching equipment. [P40A / NAVY EXPEDITIONARY LOGISTICS SUPPORT GROUP]: Navy Expeditionary Logistics Support Group will deliver worldwide expeditionary logistics with active and reserve personnel to conduct port and air cargo handling missions, customs inspections, contingency contracting capabilities, fuels distribution, freight terminal and warehouse operations, postal services, and ordnance reporting and handling. Funding will provide prioritized initial outfitting for newly established TOA requirements and procurement of centrally managed mission equipment to meet Required Operational Capabilities/Projected Operational Environment (ROC/POE) and Navy Mission Essential Tasks (NMET) to include Visual Augmentation Systems (VAS). [P40A / MOBILE DIVING SALVAGE UNIT (MDSU) OUTFITTING EQUIPMENT]: Provides prioritized initial outfitting for newly established Mobile Diving and Salvage Unit Table of Allowances (TOA) requirements and procurement of centrally managed diving and salvage systems. MDSU TOA equipment includes diving, salvage and Combat Support Equipment to meet Required Operational Capabilities/Projected Operational Environment (ROC/POE) and Navy Mission Essential Tasks (NMET) to include Visual Augmentation Systems (VAS). [P40A / NAVAL SPECIAL WARFARE]: Naval Special Warfare (NSW) service-common funding provides mission critical equipment to US Navy SEAL combat operations in forward deployed contingency locations. These investments include but are not limited to, weapon laser range finders, optics and illuminators. In addition funding supports EO/IR sensors and SEAL night vision goggles. This materiel supports NSW core mission requirements and is essential to the readiness and battlefield effectiveness of NSW in winning the current fight against ISIS and other extremist elements. [P40A / EXPEDITIONARY MINE COUNTERMEASURES]: Procurement of Visual Augmentation Systems (VAS) to support the approved Table of Allowance (TOA) for (8) Expeditionary Mine Countermeasures (ExMCM) companies. Equipment includes AN/PVS-31B goggles, LA-5B High Power Advanced Target Pointer Illuminator Aiming Laser (HP ATPIAL), and SU-269/U Advanced Combat Optical Gunsight (ACOG). These systems improve detection and identification capabilities in low visibility conditions to enhance overwatch support and exploitation.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8128 / Physical Security 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		
[P40A / ANTI-TERRORISM FORCE PROTECTION ASHORE]: This program provides centrally procured equipment to improve the physical security posture of Navy installations worldwide. The program applies the Commander Navy Installations Command (CNIC) Risk-based investment strategy, ensuring appropriate Anti-terrorism and Force Protection (ATFP) solutions are fielded. The Physical Security Equipment (PSE) program procures equipment that supports and improves 15 specific Navy capabilities to detect, defer and defeat terrorist and criminal activity targeted against Navy personnel, government property and facilities ashore/afloat. The program provides funds to procure equipment for Navy Military Construction (MILCON) projects, including Intrusion Detection System(s) (IDS) and other Electronic Security System(s) (ESS) before building occupancy. The funds support the following six categories: Electronic Harbor Security Systems (EHSS) and Barriers; Physical Security/Access Control (Gates Automation & Perimeter Security); MILCON IDS; Command, Control, Computer, Communications & Intelligence (C4I) and Other Physical Security Equipment (PSE). [P40A / COUNTERING SMALL UNMANNED AERIAL SYSTEMS]: COUNTER UAS TECHNOLOGY A Counter Unmanned Aircraft Systems (C-UAS) solution is a precision system designed to protect high value assets and support public safety against threats posed by the inadvertent or unlawful misuse of unmanned aircraft systems (UAS). Identified solutions will reduce the risk posed by UAS threats and be widely applicable to protecting Naval critical infrastructure, installations, and Navy assets identified as Covered Facilities/Covered Assets as defined by the Secretary of Defense Policy and NDAA 18. This funding is required to procure hardware, perform site engineering studies, provide system design, conduct supporting site modifications, deploy and install the system, and provide operator training, to include Tier 1 maintenance. Additional information is available at a higher classification level. [P40A / Next Generation Physical Security Water Barriers]: NEXT GENERATION PHYSICAL SECURITY WATER BARRIERS AT FLEET CONCENTRATION AND HIGH-VALUE UNIT (HVV) HOMEPORT LOCATIONS. The waterside security barrier system is part of layered defense system and shall work in concert with security forces and/or electronic sensor systems. Waterside security barrier systems are designed to defend, deter, and delay possible waterborne threats to High Value Assets (HVAs). Additionally, they act as waterside Entry Control Points (ECPs). [P40A / Physical Security Water Barriers]: The waterside security barrier system is part of layered defense system and shall work in concert with security forces and/or electronic sensor systems. Waterside security barrier systems are designed to defend, deter, and delay possible waterborne threats to High Value Assets (HVAs). Additionally, they act as waterside Entry Control Points (ECPs).		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment					P-1 Line Item Number / Title: 8128 / Physical Security 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										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 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	Physical Security Equipment				- / 973.952	- / 139.972	- / 194.825	- / 160.046	- / 1.300	- / 161.346
P-40	Total Gross/Weapon System Cost				- / 973.952	- / 139.972	- / 194.825	- / 160.046	- / 1.300	- / 161.346
*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: Mobile Security Force-Active Decrease for procurement of Long Range Ocular Interrupter (LROI) and new Acoustic Hailing Device (AHD) as part of Navy Non-Lethal Effects (NNLE) equipment for Coastal Riverine Forces (CRF) and procurement of the Visual Augmentation Module Portable Imager Recorder (VAMPIR) for Embarked Security and Intelligence Teams (ESIT). SSBN Waterfront Restricted Area Security (WRAS) Increase supports the procurement of 6 Harbor Security boats for the Strategic Weapons Facilities (SWFs), as well as the installation and testing of the Electronic Security System (ESS) supporting the Land Water Interface Extension at SWFPAC (Bangor, Washington) and installation of refreshed ESS hardware at SWFPAC in the limited area. FY20 funding continues to support the Nuclear Weapons Security program providing security equipment required to guard and protect the TRIDENT II D5 missile. FY20 efforts include the procurement of harbor security boats to be located at Strategic Weapons Facility Atlantic (SWFLANT), Kings Bay, Georgia and Strategic Weapons Facility Pacific (SWFPAC), Bangor, Washington, radio communications equipment refresh, Perimeter Intrusion and Detection Assessment System (PIDAS) production and installation, procurement of miles gear and a refresh of the Limited Area Electronic Security System (ESS) at SWFPAC. Naval Coastal Warfare Forces-Reserve Component Increase returns this cost element to previous level of funding after a one-year decrease for procurement of Visual Augmentation Systems (VAS). Increase supports procurement of SU-250/U monocular, AN/ PVS-31B goggles, and LA-5B High Power Advanced Target Pointer Illuminator Aiming Laser. These systems improve detection and identification capabilities in low visibility conditions to enhance overwatch support and exploitation. Naval Special Warfare Increase supports approved End Strength Growth in order to meet Geographic Combatant Commanders (GCC) demands to support existing counter-terrorist, counter violent extremist organization, and Building Partner Capacity missions and operations. Disaggregated nature of current operations has SEAL elements deployed across the GCCs conducting combat or combat advise operations in austere environments with little-to-no established DoD infrastructure. These investments include but are not limited to the procurement of visual augmentation support items to include; small arms optics, night vision goggles, laser range finders, and illuminators. This materiel supports NSW core mission requirements and is essential to the readiness and battlefield effectiveness of NSW in winning the current fight against ISIS and other extremist elements. Naval Special Warfare (NSW) Puma Pack Up Kits (PUK) - Funding will provide Remote and Centralized Pack-Up Kits (PUK) that includes on-site mission critical equipment to NSW Puma Operators and Operational teams deployed to remote and austere locations and from centralized hubs. These investments include but are not limited to, batteries, battery chargers, payloads, controllers, screws, wings, cables and bag/storage lockers. This materiel supports NSW core mission requirements and is essential to the readiness and battlefield effectiveness of NSW in winning the current fight against ISIS and other extremist elements. ANTI-TERRORISM FORCE PROTECTION ASHORE Increase supports the procurement of Counter Unmanned Aerial Systems for Naval installations.										

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8128 / Physical Security 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		
FY 2020 C4I funding will provide for: Regional Dispatch Center (\$11.3): Provides Regionalized/Consolidated emergency call receipt, alarm monitoring, and 1st responder dispatching. Utilize centrally-hosted and supported Computer Aided Dispatch, Mobile Data Computers, Records Management Systems, Geographic Information System (GIS), Enterprise Land Mobile Radio (ELMR) and Alarm Automation to optimize emergency communication and response times. Giant Voice / Indoor Voice (\$9.2M): Provides Voice Alerts and Notifications during Emergency Events affecting an installation. Navy Munitions Alarm System (\$3.5M): Equipment and components for Conventional Arms, Ammunitions & Explosives (AA&E) systems supporting Category I/II munitions. COUNTER UAS TECHNOLOGY (\$20M) FY20 decrease to due completion of the first phase of Counter UAS technology procurements. FY20 funding will complete procurement and installation of systems at the next seven highest priority Navy installations (JEON ST008 and JUON CC0558); these systems are designed to counter the threat of unauthorized overflying of Unmanned Aircraft Systems (UAS).		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2									P-1 Line Item Number / Title: 8128 / Physical Security Equipment						Aggregated Items Title: Physical Security Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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) MOBILE SECURITY FORCES - NCW ACTIVE COMPONENT																				
1.1) MOBILE SECURITY FORCE ACTIVE COMPONENT	A		-	-	67.733	-	-	23.709	-	-	15.616	-	-	12.564	-	-	-	-	-	12.564
Subtotal: 1) MOBILE SECURITY FORCES - NCW ACTIVE COMPONENT			-	-	67.733	-	-	23.709	-	-	15.616	-	-	12.564	-	-	-	-	-	12.564
2) NAVAL COASTAL WARFARE FORCES-RES COMP (SEC FOR)																				
2.1) MOBILE SECURITY FORCE RESERVE COMPONENT	A		-	-	18.511	-	-	5.317	-	-	2.350	-	-	4.963	-	-	-	-	-	4.963
Subtotal: 2) NAVAL COASTAL WARFARE FORCES-RES COMP (SEC FOR)			-	-	18.511	-	-	5.317	-	-	2.350	-	-	4.963	-	-	-	-	-	4.963
3) SSBN WATERFRONT RESTRICTED AREA SECURITY (WRAS)																				
3.1) SSBN WATERFRONT RESTRICTED AREA SECURITY (WRAS)	A		-	-	424.601	-	-	28.250	-	-	28.612	-	-	40.432	-	-	-	-	-	40.432
Subtotal: 3) SSBN WATERFRONT RESTRICTED AREA SECURITY (WRAS)			-	-	424.601	-	-	28.250	-	-	28.612	-	-	40.432	-	-	-	-	-	40.432
4) ANTI-TERRORISM/FORCE PROTECTION AFLOAT PHYSICAL SECURITY EQUIPMENT (ATFP PSE)																				
4.1) ATFP PHYSICAL SECURITY EQUIPMENT (PSE)	A		-	-	25.882	-	-	3.106	-	-	18.238	-	-	3.346	-	-	-	-	-	3.346
Subtotal: 4) ANTI-TERRORISM/FORCE PROTECTION AFLOAT PHYSICAL SECURITY EQUIPMENT (ATFP PSE)			-	-	25.882	-	-	3.106	-	-	18.238	-	-	3.346	-	-	-	-	-	3.346
5) BIOMETRICS ⁽¹⁾																				
5.1) BIOMETRICS	A		-	-	16.859	-	-	0.940	-	-	2.883	-	-	2.914	-	-	-	-	-	2.914
Subtotal: 5) BIOMETRICS			-	-	16.859	-	-	0.940	-	-	2.883	-	-	2.914	-	-	-	-	-	2.914
6) ENHANCED MARITIME INTERCEPTION OPERATIONS (EMIO)																				
6.1) ENHANCED MARITIME INTERCEPTION OPERATIONS (EMIO)	A		-	-	41.016	-	-	3.939	-	-	1.173	-	-	1.680	-	-	-	-	-	1.680
Subtotal: 6) ENHANCED MARITIME INTERCEPTION OPERATIONS (EMIO)			-	-	41.016	-	-	3.939	-	-	1.173	-	-	1.680	-	-	-	-	-	1.680
7) NAVY EXPEDITIONARY LOGISTICS SUPPORT GROUP																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2									P-1 Line Item Number / Title: 8128 / Physical Security Equipment						Aggregated Items Title: Physical Security Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
7.1) NAVY EXPEDITIONARY LOGISTICS SUPPORT GROUP	A		-	-	12.028	-	-	0.263	-	-	0.550	-	-	0.092	-	-	-	-	-	0.092
Subtotal: 7) NAVY EXPEDITIONARY LOGISTICS SUPPORT GROUP			-	-	12.028	-	-	0.263	-	-	0.550	-	-	0.092	-	-	-	-	-	0.092
8) MOBILE DIVING SALVAGE UNIT (MDSU) OUTFITTING EQUIPMENT																				
8.1) MOBILE DIVING AND SALVAGE UNIT OUTFITTING EQUIPMENT	A		-	-	10.116	-	-	0.324	-	-	0.467	-	-	0.980	-	-	-	-	-	0.980
Subtotal: 8) MOBILE DIVING SALVAGE UNIT (MDSU) OUTFITTING EQUIPMENT			-	-	10.116	-	-	0.324	-	-	0.467	-	-	0.980	-	-	-	-	-	0.980
9) NAVAL SPECIAL WARFARE																				
9.1) NAVAL SPECIAL WARFARE FORCES (2)	A		-	-	32.686	-	-	3.284	-	-	4.877	-	-	8.472	-	-	-	-	-	8.472
9.2) NSW RQ-20 Puma Pack-Up Kit (PUK) (3)	A		-	-	-	-	-	1.018	-	-	3.195	-	-	2.573	-	-	-	-	-	2.573
Subtotal: 9) NAVAL SPECIAL WARFARE			-	-	32.686	-	-	4.302	-	-	8.072	-	-	11.045	-	-	-	-	-	11.045
10) EXPEDITIONARY MINE COUNTERMEASURES																				
10.1) Expeditionary Mine Countermeasures (ExMCM)	A		-	-	-	-	-	-	-	-	-	-	-	1.546	-	-	-	-	-	1.546
Subtotal: 10) EXPEDITIONARY MINE COUNTERMEASURES			-	-	0.000	-	-	-	-	-	-	-	-	1.546	-	-	-	-	-	1.546
11) ANTI-TERRORISM FORCE PROTECTION ASHORE																				
11.1) ELECTRONIC HARBOR SECURITY SYSTEMS (EHSS)/ BARRIERS	A		-	-	63.007	-	-	7.796	-	-	3.209	-	-	3.583	-	-	-	-	-	3.583
11.2) PHYSICAL SECURTY/ACCESS CONTROL - AUTOMATED TURNSTILES/ ACTIVE BARRIERS	A		-	-	-	-	-	-	-	-	6.194	-	-	7.342	-	-	-	-	-	7.342
11.3) MILITARY CONSTRUCTION INTRUSION DETECTION SYSTEMS (MILCON IDS)	A		-	-	93.026	-	-	9.923	-	-	9.906	-	-	9.995	-	-	-	-	-	9.995

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy															Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8128 / Physical Security Equipment						Aggregated Items Title: Physical Security Equipment								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
11.4) COMMAND, CONTROL, COMPUTER, COMMUNICATIONS AND INTELLIGENCE (C4I)	A		-	-	168.487	-	-	26.203	-	-	26.156	-	-	17.817	-	-	1.300	-	-	19.117
11.5) COUNTERING SMALL UNMANNED AERIAL SYSTEMS ⁽⁴⁾	A		-	-	-	-	-	-	-	-	71.399	-	-	35.000	-	-	-	-	-	35.000
11.6) PORT SECURITY BARRIERS	A		-	-	-	-	-	15.900	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 11) ANTI-TERRORISM FORCE PROTECTION ASHORE			-	-	324.520	-	-	59.822	-	-	116.864	-	-	73.737	-	-	1.300	-	-	75.037
12) Counter UAS Technology																				
12.1) Counter Small Unmanned Aircraft Systems (C-sUAS) ⁽⁵⁾	A		-	-	-	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 12) Counter UAS Technology			-	-	0.000	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-
13) Next Generation Physical Security Water Barriers ⁽⁶⁾																				
13.1) Physical Security Water Barriers	A		-	-	-	-	-	-	-	-	-	-	-	6.747	-	-	-	-	-	6.747
Subtotal: 13) Next Generation Physical Security Water Barriers			-	-	0.000	-	-	-	-	-	-	-	-	6.747	-	-	-	-	-	6.747
Total			-	-	973.952	-	-	139.972	-	-	194.825	-	-	160.046	-	-	1.300	-	-	161.346
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				
Footnotes:																				
⁽¹⁾ FY19 introduces biometrics capabilities for surface ships during Visit, Board, Search, and Seizure (VBSS). Funding requested procures tech refresh production systems and system software that will be fielded to the Fleet for the Visit, Board, Search, and Seizure (VBSS) mission.																				
⁽²⁾ FY19 increase of \$3.770 million is to account for roughly 564 service-common Table of Allowance items compared to the planned procurement of 282 items in FY18. These funds support the approved service-common Table Of Allowance requirements supporting End Strength Growth in order to meet Geographic Combatant Commanders (GCC) demands to support existing counter-terrorist, counter violent extremist organization, and Building Partner Capacity missions and operations. Disaggregated nature of current operations has SEAL elements deployed across the GCCs conducting combat or combat advise operations in austere environments with little-to-no established DoD infrastructure. These investments include but are not limited to the procurement of visual augmentation support items to include; small arms optics, night vision goggles, laser range finders, and illuminators. This materiel supports NSW core mission requirements and is essential to the readiness and battlefield effectiveness of NSW in winning the current fight against ISIS and other extremist elements.																				
⁽³⁾ The FY 2020 funding request was reduced by \$0.611 million to account for the availability of prior year execution balances. A Remote PUK will provide 2-3 months of on-site parts replacements for NSW Puma Operators deployed to remote and austere locations. NSW's past experience in these environments has demonstrated that the supply chain is lengthened beyond its ability to replace vital system parts in a timely manner. A Centralized PUK will be deployed to support multiple NSW Puma Operational teams from a centralized hub. Unlike a remote PUK, the centralized PUK will enable support for multiple operational elements for up to 6 months. As these support multiple teams, a more robust supply of parts is necessary as Naval supply chains cannot provide parts support quickly enough to remote locations ensure combat effectiveness of invaluable tactical ISR support.																				
⁽⁴⁾ A Counter Unmanned Aircraft Systems (C-UAS) solution is a precision system designed to protect high value assets and support public safety against threats posed by the inadvertent or unlawful misuse of unmanned aircraft systems (UAS). Identified solutions will reduce the risk posed by UAS threats and be widely applicable to protecting Naval critical infrastructure, installations, and Navy assets identified as Covered Facilities/Covered Assets as defined by the																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8128 / Physical Security Equipment	Aggregated Items Title: Physical Security Equipment
Secretary of Defense Policy and NDAA 18. This funding is required to procure hardware, perform site engineering studies, provide system design, conduct supporting site modifications, deploy and install the system, and provide operator training, to include Tier 1 maintenance. Additional information is available at a higher classification level. ⁽⁵⁾ A Counter Unmanned Aircraft Systems (C-UAS) solution is a precision system designed to protect high value assets and support public safety against threats posed by the inadvertent or unlawful misuse of unmanned aircraft systems (UAS). Identified solutions will reduce the risk posed by UAS threats and be widely applicable to protecting Naval critical infrastructure, installations, and Navy assets identified as Covered Facilities/Covered Assets as defined by the Secretary of Defense Policy and NDAA 18. This funding is required to procure hardware, perform site engineering studies, provide system design, conduct supporting site modifications, deploy and install the system, and provide operator training, to include Tier 1 maintenance. Additional information is available at a higher classification level. ⁽⁶⁾ FUNDING SUPPORTS PROCUREMENT OF NEXT GENERATION PHYSICAL SECURITY WATER BARRIERS AT FLEET CONCENTRATION AND HIGH-VALUE UNIT (HVU) HOMEPORT LOCATIONS.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment	P-1 Line Item Number / Title: 8161 / Enterprise Information Technology

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	458.167	19.733	25.393	56.899	0.000	56.899	51.940	26.346	26.152	26.673	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	458.167	19.733	25.393	56.899	0.000	56.899	51.940	26.346	26.152	26.673	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	458.167	19.733	25.393	56.899	0.000	56.899	51.940	26.346	26.152	26.673	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>)	-	1.111	0.138	0.085	-	0.085	0.098	0.097	0.102	0.098	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Distance Support: A Navy Enterprise effort that combines people, processes and technology into a collaborative infrastructure without regard to geographic location. Distance Support (DS) is comprised of the following three components: Infrastructure, Content and Customer Relationship Management (CRM). Infrastructure provides the "transport" of DS applications and data to and from operating units and shore installations in support of various processes. Technology infrastructure also includes the data replication and shipboard IT servers that bring the DS functionality to the sailor. Content includes specific applications, systems and processes produced by various Navy communities of Interest. Customer Relationship Management (CRM) capabilities include the "Navy 311" Website, BMC Remedy Software, Shared Data Environment, Business Intelligence and Predictive Modeling software, Avaya telephony and Call Management System, and the Navy 311 Support Center, which is the hub of Distance Support, providing the single point of entry for support requests for fleet customers on a 24 hours per day, 7 days per week, 365 days per year basis (24/7/365).

The Navy Information Application Product Suite (NIAPS) is comprised of integrated hardware and Government off-the-shelf (GOTS) software that bring various workstations, storage, servers, applications and content into a common environment for shipboard deployment. NIAPS provides data compression and replication capability and is designed to re-host typically shore/web-based applications afloat to minimize bandwidth and provide maximum capability. NIAPS is comprised of 27 applications and databases launched from a single Distance Support (DS) Portal on NIAPS server. NIAPS runs applications specifically tailored to individual afloat units for training, career management, maintenance, technical drawings, logistics, human resources, as well as morale and welfare support (Quality of life) which are produced by various Navy functional organizations. NIAPS gives a ship access to critical applications and data using internal shipboard networks, which is faster and cheaper than using external bandwidth and satellite time.

Data Center Consolidation (DCC): DCC procures and installs data center hardware, software, and licenses for established Navy Enterprise Data Centers (NEDCs) and other approved hosting locations as part of the Department of Defense's Information Technology efficiency to consolidate and standardize the Navy's Data Center footprint. DCC will complete the data center consolidation effort in FY19.

SPAWAR IW Platform: Space and Naval Warfare Systems Command (SPAWAR) and PEOC4I Shore & Expeditionary Integration Program Office are recognized as the Navy's Command, Control, Communications, Computer, Intelligence, Surveillance, and Reconnaissance / Information Technology (C4ISR/IT) integration Subject Matter Expert (SME) delivering Shore Information Warfare (IW) Platform Capabilities. Funding supports the identification and validation of C4ISR/IT system requirements and provides system of system architecture, integration and installation design plans tailored to deliver specific required Capability to Shore IW Platforms. Shore IW Platforms support assured Command and Control, voice, video and data communications, Precise Time and Astrometry, and intelligence support services that are critical to allowing the flow of information from Operational Commanders to the War Fighters both afloat and ashore. MILCON projects associated with Shore IW Platforms require complex planning based on the required capability which includes advanced planning, integration and installation of numerous C4ISR/IT systems across multiple programs of record that support Command Centers, Operations Centers and Master Telecommunication Facilities, CONUS and OCONUS.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8161 / Enterprise Information Technology
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		
Telephony: Tactical Voice and Video Communications and Modernization: The Department of Defense (DoD), Chief Information Officer (CIO) has prioritized the modernization of network infrastructure to be regionally based, centrally managed and cyber secure. This includes migrating existing infrastructure from Time Division Multiplexing (TDM) to Internet Protocol (IP) based communications to enable Unified Capabilities (UC). Telephony procures and integrates Commercial-Off-The-Shelf (COTS) hardware and software to meet the DoD-CIO TDM to IP mandate for the Navy. Program requirements include: Voice over Internet Protocol (VoIP), Voice over Secure Internet Protocol (VoSIP), Video Teleconferencing over Secure Internet Protocol (VTCoSIP), Telephony Unified Messaging System (TUMS), Regional Telephony Management System (RTMS), Navy Video Conferencing System (NVCS), NVCS Coalition (NVCS-C), Internet Protocol (IP) Trunking, Aegis Ashore, and Telephony systems infrastructure (e.g. cable plant). Telephony system installations and/or upgrades occur at facilities in accordance with requirements as identified by Navy Information Forces (NAVIFOR), Office of the Chief of Naval Operations (OPNAV), and Missile Defense Agency (MDA). MILCON C4I Shore Based Enterprise Network Enhancements (Telephony): Funding additionally supports procurement and installation of mission related Telephony equipment at the following shore sites: - MILCON P-913: Naval Computer and Telecommunications Area Master Station (NCTAMS) Atlantic - MILCON P-621: NCTAMS Atlantic Det Rota Spain - MILCON P-131: NCTAMS Atlantic Det Souda Bay - MILCON P-130: Naval Computer and Telecommunications Station (NCTS) Sigonella Italy MILCON Project P-013: Navy Information Operations Command, Hawaii (NIOC HI) performs all duties assigned by Commander Pacific Fleet (COMPACFLT), Fleet Cyber Command (FLTCYBERCOM) / Commander Tenth Fleet (COMTENTHFLT), Navy Information Forces (NAVIFOR), and the Director, National Security Agency. NIOC HI conducts and provides support to information warfare, cyber, signals intelligence, Information Operations (IO) and electronic warfare mission areas in the Pacific Fleet area of responsibility (PAC AOR). At the direction of United States Cyber Command (USCYBERCOM), FLTCYBERCOM / COMTENTHFLT will be deploying substantial Cyber Mission Forces to Oahu. NCTAMS PAC and NIOC HI require close collaboration and alignment between the elements of the intelligence community under NIOC HI and the network operations under NCTAMS PAC in a controlled environment. MILCON Project P-013 provides Sensitive Compartmented Information Facility (SCIF) space for three PACOM Cyber Protection Teams, which currently has inadequate SCIF space to meet USCYBERCOM standards.		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment						P-1 Line Item Number / Title: 8161 / Enterprise Information Technology				
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Enterprise Information Technology	P-5a, P-21			- / 458.167	- / 19.733	- / 25.393	- / 56.899	- / 0.000	- / 56.899
P-40	Total Gross/Weapon System Cost				- / 458.167	- / 19.733	- / 25.393	- / 56.899	- / 0.000	- / 56.899
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: Distance Support NIAPS (-\$0.085M): FY20 funds the procurement of software and all the associated labor for the tech refresh of the NIAPS software suite, patching, testing, and integration of new components to address obsolescence and cybersecurity vulnerabilities. FY20 also funds the procurement of Microsoft Windows 2012 and SQL Server 2012 licenses to support installation of NIAPS V3.0. NIAPS V3.0 replaces NIAPS 2.4.X, which utilizes end-of life software that is not PKI compliant, and meets newly established cybersecurity requirements to include renewal of Authority to Operate (ATO)s within the Risk Management Framework (RMF). Data Center Consolidation (DCC)(-\$3.235M): - No funding budgeted for FY20. DCC will complete the data center consolidation effort in FY19. Space and Naval Warfare Systems Command (SPAWAR) Shore Information Warfare (IW) Platform (+\$37.385M realignment)includes: - FY20 increase is a net zero realignment to correct appropriation designation from O&MN (AGSAG 1C1C) to OPN (Line Item 8161). - (+\$35.615M) of this realignment supports advanced planning, system of systems architecture, and design and integration planning efforts associated with the following Shore IW Platform MILCON projects that deliver Command, Control, Communications, Computer, Intelligence, Surveillance, and Reconnaissance / Information Technology (C4ISR/IT) Capability: P621 - Naval Computer and Telecommunications Area Master Station, Atlantic Det Rota (NCTAMS LANT Det Rota); P013 - Navy Information & Operations Center (NIOC) Hawaii; P130 - Naval Computer and Telecommunications Station, Sigonella (NCTS Sigonella); P913 - Naval Computer and Telecommunications Area Master Station, Atlantic, (NCTAMS LANT C4I); P001 - US Naval Observatory; P131 - NCTAMS LANT Det Souda Bay; and P649 - NCTS Guam. Each design is tailored to meet a required capability. The Shore and Expeditionary Program Office provides portfolio management of MILCON Shore IW Platform efforts to manage requirements as they change due to real world events and to ensure required capability is delivered on time and within cost. System integration designs range from integrating 20 to 80+ different systems at each Shore IW Platform. - (+\$1.869M) provides funding for support costs directly related to SPAWAR Shore IW Platform efforts. Telephony Tactical Voice and Video communications and Modernization (-\$4.625M) includes: - Telephony Program of Record (-\$0.201M): Funding decrease between FY19 and FY20 is due to decreased IP Conversion efforts in FY20. In FY20, the program will continue procurement and installation of Internet Protocol (IP) based equipment in support of DoD's Everything over IP (EoIP) mandate and Telephony requirements including: Voice over Internet Protocol (VoIP), Voice over Secure Internet Protocol (VoSIP), Video Teleconferencing over Secure Internet Protocol (VTCoSIP), Telephony Unified Messaging System (TUMS), Regional Telephony Management System (RTMS), Navy Video Conferencing System (NVCS), NVCS Coalition (NVCS-C), Internet Protocol (IP) Trunking, Aegis Ashore, and Telephony systems infrastructure (e.g. cable plant). Telephony system installations and/or upgrades occur at facilities in accordance with requirements as identified by Navy Information Forces (NAVIFOR), Office of the Chief of Naval Operations (OPNAV), and Missile Defense Agency (MDA) (i.e. FLTNOCs, Fleet Telecommunications sites, and Aegis Ashore Sites).										

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 2: Command Support Equipment		P-1 Line Item Number / Title: 8161 / Enterprise Information Technology
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		
Procurement and installation unit cost variances are based on the location of the region/site (CONUS,OCONUS), number of sites in the region, the various site architectures and requirements, the age and type of systems modernized, and user density (number of users). Telephony quantities represent the number of regions that are being replaced/modernized in the given Fiscal Year (FY). Regions: CONUS: Southwest, Pacific Northwest, Southeast, Northeast, Mid-Atlantic. OCONUS: Western Pacific, Guantanamo, Europe, Middle East. - Collateral Equipment, Telephony MILCON (-\$4.424M): Funding decrease in FY20 is the result of procurement and installation occurring in two phases to align with the MICLON transition schedule. Phase I (procurement and integration) in FY19 and Phase II (testing and installation) in FY20. In FY20, funding supports installation and testing of mission related Telephony equipment at the following shore sites: - MILCON P-913: NCTAMS LANT C4I - MILCON P-621: NCTAMS LANT Det Rota Spain Collateral Equipment, MILCON Project P-013 (+\$2.066M) includes: Funding supports procurement and installation of mission related command, control, communications, computers and intelligence/Information Technology (C4I/IT) equipment to new Naval Computer and Telecommunications Area Master Station Pacific (NCTAMSPAC) Facility in Wahiawa. Relocates the Navy Information Operations Command (NIOC) Hawaii from Pearl Harbor to Wahiawa because the current facility has no installed fire sprinklers; extensive termite damage in roof and had structural column failure; and is operating under multiple SCIF security waivers. Increase between FY19 and FY20 will support the procurement of Wahiawa information technology efforts to include both Genser and Top Secret configuration.		

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Exhibit P-5, Cost Analysis: PB 2020 Navy												Date: March 2019						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8161 / Enterprise Information Technology						Item Number / Title [DODIC]: 1 / Enterprise Information Technology						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				458.167		19.733		25.393		56.899		0.000		56.899				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				458.167		19.733		25.393		56.899		0.000		56.899				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				458.167		19.733		25.393		56.899		0.000		56.899				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		1.111		0.138		0.085		-		0.085				
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - Risk Management Initiative Cost																		
Recurring Cost																		
1.1.1) Risk Management Information	3,177.000	1	3.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	3.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - Risk Management Initiative Cost	-	-	3.177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardware - Data Center Consolidation Cost																		
Recurring Cost																		
2.1.1) DCC - Data Center Consolidation	-	-	8.820	-	-	2.954	-	-	3.235	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	8.820	-	-	2.954	-	-	3.235	-	-	-	-	-	-	-	-	
Subtotal: Hardware - Data Center Consolidation Cost	-	-	8.820	-	-	2.954	-	-	3.235	-	-	-	-	-	-	-	-	
Hardware - Distance Support Cost																		
Recurring Cost																		
3.1.1) Distance Support Hardware	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - Distance Support Cost	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	
Hardware - SPAWAR Shore Information Warfare (IW) Platform Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2020 Navy												Date: March 2019						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8161 / Enterprise Information Technology						Item Number / Title [DODIC]: 1 / Enterprise Information Technology						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
4.1.1) Shore IW Platform: MILCON P-913 NCTAMS LANT C4I ⁽¹⁾	-	-	-	-	-	-	-	-	-	-	-	26.085	-	-	-	-	-	26.085
4.1.2) Shore IW Platform: MILCON P-621 NCTAMS LANT Det Rota ⁽²⁾	-	-	-	-	-	-	-	-	-	-	-	4.180	-	-	-	-	-	4.180
4.1.3) Shore IW Platform: MILCON P-130 NCTS Sigonella ⁽³⁾	-	-	-	-	-	-	-	-	-	-	-	1.805	-	-	-	-	-	1.805
4.1.4) Shore IW Platform: MILCON P-131 NCTAMS LANT Det Souda Bay ⁽⁴⁾	-	-	-	-	-	-	-	-	-	-	-	0.855	-	-	-	-	-	0.855
4.1.5) Shore IW Platform: MILCON P-013 NIOC Hawaii ⁽⁵⁾	-	-	-	-	-	-	-	-	-	-	-	1.791	-	-	-	-	-	1.791
4.1.6) Shore IW Platform: MILCON P-649 NCTS Guam ⁽⁶⁾	-	-	-	-	-	-	-	-	-	-	-	0.800	-	-	-	-	-	0.800
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	35.516	-	-	-	-	-	35.516
Subtotal: Hardware - SPAWAR Shore Information Warfare (IW) Platform Cost	-	-	-	-	-	-	-	-	-	-	-	35.516	-	-	-	-	-	35.516
Hardware - MILCON Outfitting (Non Telephony) Cost																		
Non Recurring Cost																		
5.1.1) MILCON P-013 - Wahiawa Shorebased Enhancements ^{(†) (7)}	-	-	-	-	-	-	10,147.000	1	10.147	12,213.000	1	12.213	-	-	-	12,213.000	1	12.213
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	10.147	-	-	12.213	-	-	-	-	-	12.213
Subtotal: Hardware - MILCON Outfitting (Non Telephony) Cost	-	-	-	-	-	-	-	-	10.147	-	-	12.213	-	-	-	-	-	12.213
Hardware - Telephony MILCONS Cost																		
Non Recurring Cost																		
6.1.1) MILCON P-913 NCTAMS LANT C4I ⁽⁸⁾	-	-	-	-	-	-	-	-	4.139	-	-	2.242	-	-	-	-	-	2.242

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Exhibit P-5, Cost Analysis: PB 2020 Navy												Date: March 2019						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2						P-1 Line Item Number / Title: 8161 / Enterprise Information Technology						Item Number / Title [DODIC]: 1 / Enterprise Information Technology						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
6.1.2) MILCON P-621 NCTAMS LANT Det Rota ⁽⁹⁾	-	-	-	-	-	-	-	-	3.000	-	-	0.473	-	-	-	-	-	0.473
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	7.139	-	-	2.715	-	-	-	-	-	2.715
Subtotal: Hardware - Telephony MILCONS Cost	-	-	-	-	-	-	-	-	7.139	-	-	2.715	-	-	-	-	-	2.715
Hardware - Telephony Procurement Cost																		
Recurring Cost																		
7.1.1) Procurement ⁽¹⁾ (10)	4,380.545	11	48.186	4,807.500	2	9.615	3,218.000	1	3.218	3,079.000	1	3.079	-	-	-	3,079.000	1	3.079
Subtotal: Recurring Cost	-	-	48.186	-	-	9.615	-	-	3.218	-	-	3.079	-	-	-	-	-	3.079
Subtotal: Hardware - Telephony Procurement Cost	-	-	48.186	-	-	9.615	-	-	3.218	-	-	3.079	-	-	-	-	-	3.079
Hardware - Telephony Installations Cost																		
Recurring Cost																		
8.1.1) Telephony Install Costs ⁽¹¹⁾	-	-	5.115	-	-	3.802	-	-	0.756	-	-	0.756	-	-	-	-	-	0.756
Subtotal: Recurring Cost	-	-	5.115	-	-	3.802	-	-	0.756	-	-	0.756	-	-	-	-	-	0.756
Subtotal: Hardware - Telephony Installations Cost	-	-	5.115	-	-	3.802	-	-	0.756	-	-	0.756	-	-	-	-	-	0.756
Hardware - BLII Prior Year Cost																		
Recurring Cost																		
9.1.1) BLII Prior Year	-	-	387.443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	387.443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - BLII Prior Year Cost	-	-	387.443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Software - Distance Support Cost																		
Recurring Cost																		
10.1.1) Distance Support Software ⁽¹²⁾	-	-	3.419	-	-	1.656	-	-	0.713	-	-	0.628	-	-	-	-	-	0.628
Subtotal: Recurring Cost	-	-	3.419	-	-	1.656	-	-	0.713	-	-	0.628	-	-	-	-	-	0.628
Subtotal: Software - Distance Support Cost	-	-	3.419	-	-	1.656	-	-	0.713	-	-	0.628	-	-	-	-	-	0.628
Support Cost																		
11.1) FY18 Congressional Add	-	-	-	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2020 Navy													Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8161 / Enterprise Information Technology						Item Number / Title [DODIC]: 1 / Enterprise Information Technology					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
11.2) SPAWAR Shore IW Platform	-	-	-	-	-	-	-	-	-	-	-	1.869	-	-	-	-	-	1.869
11.3) Telephony Production Support	-	-	2.007	-	-	0.506	-	-	0.185	-	-	0.123	-	-	-	-	-	0.123
Subtotal: Support Cost	-	-	2.007	-	-	1.506	-	-	0.185	-	-	1.992	-	-	-	-	-	1.992
Gross/Weapon System Cost	-	-	458.167	-	-	19.733	-	-	25.393	-	-	56.899	-	-	0.000	-	-	56.899
Remarks:																		
[Hardware] SPAWAR Shore IW Platform quantities are not provided since funding supports multi-year and various MILCON Shore IW Platform modernization efforts based on fluctuating real-world events and to ensure required capability is delivered on time and within cost. Requested budget is for system of system architecture design, integration planning and installation planning costs at the platforms. Specific procurement and installation costs are budgeted for by the Program of Record (POR) providing capability, and are reflected for in their budget exhibits.																		
[Hardware/Recurring] FY20 increase for Space and Naval Warfare Systems Command (SPAWAR) Shore Information Warfare (IW) Platform is a net zero realignment to correct appropriation designation from O&MN (AGSAG 1C1C) to OPN (Line Item 8161) to support the advanced planning, system of systems architecture, and design and integration planning efforts associated with the following Shore IW Platform MILCON projects that deliver Command, Control, Communications, Computer, Intelligence, Surveillance, and Reconnaissance / Information Technology (C4ISR/IT) Capability: P621 - Naval Computer and Telecommunications Station (NCTS) Det Rota; P013 - Navy Information & Operations Center (NIOC) Hawaii; P130 - NCTS Sigonella; P913 - Naval Computer and Telecommunications Area Master Station, Atlantic, (NCTAMS LANT C4I); P001 - US Naval Observatory; P131 - NCTS Det Souda Bay; and P649 - NCTS Guam.																		
Each design is tailored to meet a required capability. The Shore and Expeditionary Program Office provides portfolio management of MILCON Shore IW Platform efforts to manage requirements as they change due to real world events and to ensure required capability is delivered on time and within cost. System integration designs range from integrating 20 to 80+ different systems at each Shore IW Platform. Costs will vary by platform based upon complexity and current phase in the associated MILCON project schedule.																		
[Hardware] Telephony MILCONs -Funding supports procurement and installations of mission related Telephony equipment in support of MILCON projects. MILCON support cost vary by site.																		
(†) indicates the presence of a P-5a																		
Footnotes:																		
(1) FY20 increase for Shore IW Platform: MILCON P-913 NCTAMS LANT C4I is a net zero realignment to correct appropriation designation from O&MN (AGSAG 1C1C) to OPN (Line Item 8161) to support the advanced planning, system of systems architecture, and design and integration planning efforts involved with combining cyber defense missions from two buildings (M-51 and NH-95) into a single integrated communications shore platform hosting 80+ systems while providing uninterrupted communication and connectivity services to operational naval forces.																		
(2) FY20 increase for Shore IW Platform: MILCON P-621 NCTAMS LANT Det Rota is a net zero realignment to correct appropriation designation from O&MN (AGSAG 1C1C) to OPN (Line Item 8161) to support the advanced planning, system of systems architecture, and design and integration planning efforts required to deliver a new shore C4I platform that will host 20+ systems while providing uninterrupted communication and connectivity services to operational naval forces.																		
(3) FY20 increase for Shore IW Platform: MILCON P-130 NCTS Sigonella is a net zero realignment to correct appropriation designation from O&MN (AGSAG 1C1C) to OPN (Line Item 8161) to support the advanced planning, system of systems architecture, and design and integration planning efforts required to deliver a new shore C4I platform that will host 20+ systems while providing uninterrupted communication and connectivity services to operational naval forces.																		

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Exhibit P-5, Cost Analysis: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2	P-1 Line Item Number / Title: 8161 / Enterprise Information Technology	Item Number / Title [DODIC]: 1 / Enterprise Information Technology
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(4) FY20 increase for Shore IW Platform: MILCON P-131 NCTAMS LANT Det Souda Bay is a net zero realignment to correct appropriation designation from O&MN (AGSAG 1C1C) to OPN (Line Item 8161) to support the advanced planning, system of systems architecture, and design and integration planning efforts required to deliver a new shore C4I platform that will host 20+ systems while providing uninterrupted communication and connectivity services to operational naval forces. (5) FY20 increase for Shore IW Platform: MILCON P-013 NIOC Hawaii is a net zero realignment to correct appropriation designation from O&MN (AGSAG 1C1C) to OPN (Line Item 8161) to support the advanced planning, system of systems architecture, and design and integration planning efforts required to deliver a new shore C4I platform that will host 15+ systems while providing uninterrupted communication and connectivity services to operational naval forces. (6) FY20 increase for Shore IW Platform: MILCON P-649 NCTS Guam is a net zero realignment to correct appropriation designation from O&MN (AGSAG 1C1C) to OPN (Line Item 8161) to support the advanced planning, system of systems architecture, and design and integration planning efforts required to deliver a new shore C4I platform that will host 50+ systems while providing uninterrupted communication and connectivity services to operational naval forces. (7) MILCON Project P-013 relocates the Navy Information Operations Command (NIOC) Hawaii from Pearl Harbor to Wahiawa. The new facility will provide Sensitive Compartmented Information Facility (SCIF) space for three Pacific Command (PACOM) Cyber Protection Teams, which currently have inadequate SCIF space to meet United States Cyber Command (USCYBERCOM) standards. Funding supports the Wahiawa information technology efforts to include both Genser and Top Secret configuration. (8) Non recurring costs in FY19 & FY20 supports procurement and installation of mission related Telephony equipment at the following shore site: MILCON P-913: Naval Computer and Telecommunications Area Master Station (NCTAMS) Atlantic (9) Non recurring costs in FY19 & FY20 supports procurement and installation of mission related Telephony equipment at the following shore site: MILCON P-621: NCTAMS Det Rota Spain (10) Unit cost variances are based on the location of the region/site (CONUS, OCONUS), number of sites in the region, the various site architectures and requirements, the age and type of systems modernized, and user density (number of users). Quantities represent the number of regions that are being replaced/modernized in the given fiscal year. Telephony's modernization plan is designed to eliminate cyber security vulnerabilities due to hardware and software obsolescence. Telephony's systems are located in various regions supporting the Fleet Commanders, their forces, and Joint and Coalition Partners within each region. Regions: CONUS: Southwest, Pacific Northwest, Southeast, Northeast, Mid-Atlantic. OCONUS: Western Pacific, Guantanamo, Europe, Middle East. (11) FY19-FY24 installation cost variances are based on the location of the region/site (CONUS, OCONUS), number of sites in the region, the various site architectures and requirements, the age and type of systems modernized, and user density (number of users). Telephony's modernization plan is designed to eliminate cyber security vulnerabilities due to hardware and software obsolescence. Telephony's systems are located in various regions supporting the Fleet Commanders, their forces, and Joint and Coalition Partners within each region. Regions: CONUS: Southwest, Pacific Northwest, Southeast, Northeast, Mid-Atlantic. OCONUS: Western Pacific, Guantanamo, Europe, Middle East. (12) FY20 NIAPS OP,N funds the procurement of software and all the associated labor for the tech refresh of the NIAPS software suite, patching, testing, and integration of new components to address obsolescence and cybersecurity vulnerabilities. FY20 also funds the procurement of Microsoft Windows 2012 and SQL Server 2012 licenses to support installation of NIAPS V3.0. NIAPS V3.0 replaces NIAPS 2.4.X, which utilizes end-of-life software that is not PKI compliant, and meets newly established cybersecurity requirements to include renewal of Authority to Operate (ATO)s within the Risk Management Framework (RMF).		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2				P-1 Line Item Number / Title: 8161 / Enterprise Information Technology					Item Number / Title [DODIC]: 1 / Enterprise Information Technology			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
5.1.1) MILCON P-013 - Wahiawa Shorebased Enhancements ^(†)		2019	SPAWAR / San Diego, CA	C / FFP	San Diego, CA	Jan 2019	Jan 2019	1	10,147.000	N	Oct 2019	
5.1.1) MILCON P-013 - Wahiawa Shorebased Enhancements ^(†)		2020	SPAWAR / San Diego, CA	C / FFP	San Diego, CA	Dec 2019	Dec 2019	1	12,213.000	N	Mar 2020	
7.1.1) Procurement		2018	DISA/DITCO / SCOTT AFB, IL 62225	MIPR	SCOTT AFB, IL	Jun 2018	Aug 2018	2	4,807.500	Y		
7.1.1) Procurement		2019	DISA/DITCO / SCOTT AFB, IL 62225	MIPR	SCOTT AFB, IL	Mar 2019	May 2019	1	3,218.000	Y		
7.1.1) Procurement		2020	DISA/DITCO / SCOTT AFB, IL 62225	MIPR	SCOTT AFB, IL	Mar 2020	May 2020	1	3,079.000	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2020 Navy																				Date: March 2019															
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2							P-1 Line Item Number / Title: 8161 / Enterprise Information Technology													Item Number / Title [DODIC]: 1 / Enterprise Information Technology															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2018										Fiscal Year 2019													BALANCE					
O C 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				
5.1.1) MILCON P-013 - Wahiawa Shorebased Enhancements ⁽⁷⁾																																			
	1	2019	NAVY	1	0	1														A1															0
	1	2020	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 2020 Navy																							Date: March 2019										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2										P-1 Line Item Number / Title: 8161 / Enterprise Information Technology													Item Number / Title [DODIC]: 1 / Enterprise Information Technology										
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2020												Fiscal Year 2021													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
5.1.1) MILCON P-013 - Wahiawa Shorebased Enhancements ⁽⁷⁾																																	
	1	2019	NAVY	1	1	0																							0				
	1	2020	NAVY	1	0	1			A1																								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 2020 Navy									Date: March 2019			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 2					P-1 Line Item Number / Title: 8161 / Enterprise Information Technology				Item Number / Title [DODIC]: 1 / Enterprise Information Technology			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2020	1-8-5 For 2020	MAX For 2020	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	SPAWAR - San Diego, CA			TBD	0	0	0	0	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).

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 5: Other							P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service					
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	188.818	89.178	96.269	122.832	0.000	122.832	133.337	136.006	138.770	141.565	-	1,046.775
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	188.818	89.178	96.269	122.832	0.000	122.832	133.337	136.006	138.770	141.565	-	1,046.775
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	188.818	89.178	96.269	122.832	0.000	122.832	133.337	136.006	138.770	141.565	-	1,046.775
<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>)	-	0.204	0.778	0.526	-	0.526	0.109	0.400	-	-	-	2.017
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Next Generation Enterprise Network (NGEN) is the acquisition approach and contract vehicle used to manage the Navy Marine Corps Intranet (NMCI) enterprise network which will provide secure, net-centric data and services to Navy and Marine Corps personnel and represents the continuous evolution of information technology at the Department of Navy (DoN). Additionally NGEN provides security for the non-classified Internet Protocol (IP) Router Network (known as NIPRNET) and the classified Secret Internet Protocol Router Network (SIPRNET). NIPRNET is a private IP network used to exchange unclassified information, including information subject to controls on distribution, among the private network's users. SIPRNET is a system of interconnected computer networks used to transmit classified information (up to and including information classified SECRET) by packet switching over the "completely secure environment." NGEN forms the foundation for the DoN's future Naval Network Environment that will be interoperable with and leverage other Department of Defense-provided Net-Centric Enterprise Services.

The OCONUS Network (formerly Base Level Information Infrastructure (BLII), now referred to as "OCONUS" or "ONE-Net") will transition to the NGEN business operating model upon the award of the NGEN follow-on contract (NGEN-R). This will allow the Naval Enterprise Networks (NEN) to function as a common global network through the institution of a single approved service operating model.

Technology Refresh and Modernization Plan (TRMP):
 TRMP is a requirement performed by Naval Enterprise Networks (NEN) which focuses on upgrading the existing Hardware and or Software to mitigate End of Life, End of Support and End of Software Support issues in order to maintain network performance, Architecture/Solution Accreditations and network security.

TRMP involves the modernization and periodic replacement of NMCI hardware/software and assigned non-IT assets identified in the NGEN TRMP plan required to support network performance. The objective of TRMP is to improve and maintain network performance, increase network capacity based on project demand, improve security posture from vulnerabilities and integrate DoD and/or DoN mandates. NGEN assets are Government Owned/Contractor Operated (GO/CO). A significant amount of those assets have reached End-of-Life and are no longer supported by the vendors, which makes our infrastructure vulnerable to external cyber-attacks; and diminishes enterprise solutions performance and optimization. Our current infrastructure is aged and modernization is essential to improve storage capabilities to accommodate new emerging workforce requirements; maintain network performance, architecture/solution accreditations, and network security. The procurement of these assets will continue in FY18 and beyond. TRMP also allows the NEN program to insert and or augment new technology solutions (H/W and/or S/W) to meet evolving requirements (e.g. JRSS) and keep closer pace with industry advancements. Hence, future TRMP funding will be utilized to transition to 10GB networks. The final phase of ORT cybersecurity enhancements were procured in FY16 for deployment in FY17. Cyber Security enhancements previously funded with Operation Rolling Tide (ORT) funding will be procured and/or refreshed as part of TRMP baseline beginning in FY18.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 5: Other		P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service
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		
OCONUS Layer 1 (L1) Fiber Optic Upgrades, Far East (FE): Install/upgrade OSP (Outside Plant) pathway and cabling in Far East NMCI OCONUS sites (Yokosuka Japan + remote sites, Atsugi Japan, Sasebo Japan, Diego Garcia, Okinawa Japan) in accordance with NCTSFE BCO (Naval Computer Telecom Station Far East Base Commanding Officer) Master Plan, and Premise Cabling Layer 1 to support direct connections from each building to a distribution switch in support of current and future Unified Capability (UC) and Cloud (O-365) related initiatives. Without infrastructure being updated the NMCI OCONUS network will become increasingly vulnerable as communications are required to transit less secure pathways and may be open for intercept or interference. If not funded, the network pathway infrastructure will not support newer technologies, faster speeds or the full range of network defense capabilities. OCONUS Windows Server 2008 Operating System Eradication: Microsoft Windows 2008 servers/platforms (473 combined NIPR SIPR servers) will reach end of support (EoS) January 2020. The ONE-Net enterprise, is required to upgrade all 473 servers to the target OS Windows Server 2016 or OS Windows Server 2019 to bring improved Authority to Operate (ATO) and cyber security posture. Each server will become a CAT 1 vulnerability hit based on Cyber Security Technical Implementation Guide (STIG) guidelines forcing the ONE-Net program into a High Risk Escalation (HRE) Briefing situation. Windows Server 2016 or 2019 are the target OS, and will provide improved security, cloud enabling capabilities, administration accountability/control and software patches improving cyber security. OCONUS Transition: Transition funding will provide for the security and technology improvements and sustainment efforts, to include systems/security engineering and integration, production, installation and implementation of network infrastructure, in support of the transition of ONE-NET into the NGEN business model. This will result in a fully integrated navy network with NIPR (unclassified) and SIPR (classified) enclaves operated via a controlled common operational approach as ONE-Net goes through the process of transition to the NMCI business model from both an operating model (GoGo/multivendor) and infrastructure perspective (aligning HW/SW/Capabilities to NMCI CONUS). OCONUS Technical Refresh: OCONUS funding will provide for the technical refresh of network infrastructure that have reached end of life/support and now present security risks to the network. Antiquated PCs will be at the end of their final warranty. It will also provide the funding for systems/security engineering and integration, production, installation and implementation of hardware and software in support of the transition of ONE-NET into NGEN business model. Network Devices and PC Warranties (of which 15,386 have already expired and been extended) will expire (end of support) at the end of calendar year 2020, driving a one-time increase of \$24.2M to refresh 20,468 computers. Without extended support, each machine will experience a DISA CAT 1 Security Technical Implementation Guide (STIG) hit (Cyber risk) on the Enterprise and place site accreditations packages at risk, resulting in a High Risk Escalation (HRE) scenario. OCONUS Piers Technical Refresh: In FY20 funding for OCONUS Enterprise Pier Connectivity Architecture (EPCA) is realigned from LI 8164 to LI 3050. Joint Regional Security Stack (JRSS): JRSS is a Joint Information Environment (JIE) initiative that consolidates Cybersecurity control points for the Department of Defense (DoD) and mission support organizations. JRSS will replace the existing Navy cyber protection boundaries allowing for a common and operable cyber defense network across all of the DoD. The Joint Information Environment (JIE) scope which included JRSS was laid out broadly in a series of Joint Chiefs of Staff Tank and Deputy Secretary Management Action Group (DMAG) decisions in 2012. DoD CIO, via the JIE EXCOM, has further refined the priorities of those tasks, consistent with the implementation strategy. JRSS is DoD's near term modernization priority, and is fielded as an Enterprise Service, as designated by the DoD CIO in November 2015. With the designation of JRSS as an Enterprise Service, the DoD CIO required JRSS be separately identified. Collateral Equipment - MILCON Project P-013: Project P-013 provides Sensitive Compartmented Information Facility (SCIF) space for three PACOM Cyber Protection Teams in Hawaii Wahiawa, which currently has inadequate SCIF space to meet USCYBERCOM standards. Collateral Equipment - MILCON Project P-913: Project P-913 project combines the cyber defense missions from two buildings (M-51 and NH-95) into one 187,000 square foot integrated communications facility with SCIF capability at Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMSLANT).		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 5: Other						P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service				
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	1 / Next Generation Enterprise Service	P-5a			- / 188.818	- / 89.178	- / 96.269	- / 122.832	- / 0.000	- / 122.832
P-40	Total Gross/Weapon System Cost				- / 188.818	- / 89.178	- / 96.269	- / 122.832	- / 0.000	- / 122.832
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY20-24 funding for LI 8164 was reduced by a total of (-\$9.96M) due to realignment of EPCA/PIERS from BLI 8164 to BLI 3050. This realignment included: realigning (-\$4.96M) from OCONUS Piers Technical Refresh, as well as (-\$5.00M) from the Technical Refresh Modernization Plan (TRMP). CONUS TRMP (+\$3.0M): The FY19-FY20 net growth for the Technical Refresh and Modernization Plan (TRMP)supports the Cable Plant outside plant/inside plant (OSP/ISP). OCONUS Network Improvement (+\$16.4M): Funding required to support one-time replacement of end-of-life/support operating system software on ONE-Net servers, along with Cloud enabling capabilities and services in order to provide enhanced cyber security posture, in support of ONE-Net's transition to NMCI (NGEN Contract). OCONUS Network Improvement efforts include: - OCONUS Windows Server 2008 Operating System Eradication (+\$5.5M): Funding required to support one-time replacement of end-of-life/support operating system software on ONE-Net servers, along with Cloud enabling capabilities and services in order to provide enhanced cyber security posture, in support of ONE-Net's transition to NMCI (NGEN Contract). - OCOUNS Layer 1 (L1) Fiber Optic Upgrades, Far East (FE)(\$10.9M): Requirement includes fiber optic and copper cabling, patch panels, wall and/or floor mounted cabinets and racks, and construction of UFC (Unified Capabilities Framework) compliant telecommunications room in accordance with DoD 8500.1. This upgrade is required to execute critical time sensitive National Command Authority direct mission. OCONUS Transition (+\$0.14M): OCONUS Network (ONE-Net) will transition to the NGEN business model upon the award of the NGEN follow-on contract (NGEN-R). This will allow the Naval Enterprise Networks (NEN) to function as a common global network through the institution of a single approved service operating model in conjunction with the current Navy Marine Corps Intranet (NMCI) network. In essence, the CONUS and OCONUS networks are intended to merge into a single allocated baseline as part of the NGEN-R contract. - The FY20 OCONUS Transition funding increase will provide for the security and technology improvements and sustainment efforts of the network as ONE-Net goes through the process of transition to the NGEN business model from both an operating model (GoGo/multi-vendor) and infrastructure perspective (aligning HW/SW/Capabilities to NMCI CONUS). OCONUS Technical Refresh (+\$19.5M) includes: - OCONUS funding will provide for the technical refresh of network infrastructure that have reached end of life/support and now present security risks to the network. Antiquated PCs will be at the end of their final warranty. It will also provide the funding for systems/security engineering and integration, production, installation and implementation of hardware and software in support of the transition of ONE-NET into NGEN business model.										

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 07: Personnel & Command Support Equip / BSA 5: Other		P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service
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		
- The FY19-FY20 Technical Refresh will fund the refresh and installation of 20,468 end points (PCs/laptops). PC Warranties (of which 15,386 have already expired and been extended) will expire (end of support) at the end of calendar year 2020, driving a necessary refresh 20,468 computers. Failure to replace these machines will result in a DISA CAT 1 Security Technical Implementation Guide (STIG) hit (Cyber risk) on the Enterprise and place site accreditations packages at risk, resulting in a High Risk Escalation (HRE) scenario. NCTAMS LANT C4I (-\$2.4M): - The decrease is due to the MILCON Project P-913 for completion of project - Shore Based Enterprise Network Enhancements: This funding supports the procurement and installation of NMCI infrastructure to the new Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMSLANT) Facility (MILCON P-913). Collateral Equipment - MILCON Project P-013 (+\$0.362M): - Increase from FY19 to FY20 will support equipment purchases associated with the development and refurbishment of Sensitive Compartmented Information Facilities (SCIF) to ensure information sharing is executed in a controlled environment and at the appropriate classification levels for the Cyber Mission Forces Teams. MILCON Project P-013 provides SCIF space for three PACOM Cyber Protection Teams, in Hawaii Wahiawa, which currently has inadequate SCIF space to meet USCYBERCOM standards.		

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Exhibit P-5, Cost Analysis: PB 2020 Navy												Date: March 2019						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 5						P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service						Item Number / Title [DODIC]: 1 / Next Generation Enterprise Service						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				188.818		89.178		96.269		122.832		0.000		122.832				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				188.818		89.178		96.269		122.832		0.000		122.832				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				188.818		89.178		96.269		122.832		0.000		122.832				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		0.204		0.778		0.526		-		0.526				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - CONUS Cost																		
Recurring Cost																		
1.1.1) CONUS - Technical Refresh and Modernization Plan (TRMP) ⁽¹⁾	-	-	131.690	-	-	33.093	-	-	58.214	-	-	60.933	-	-	-	-	-	60.933
1.1.2) CONUS - Operation Rolling Tide / Cyber Resiliency	-	-	32.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	164.190	-	-	33.093	-	-	58.214	-	-	60.933	-	-	-	-	-	60.933
Subtotal: Hardware - CONUS Cost	-	-	164.190	-	-	33.093	-	-	58.214	-	-	60.933	-	-	-	-	-	60.933
Hardware - OCONUS Network Improvement Cost																		
Non Recurring Cost																		
2.1.1) OCONUS Windows Server 2008 Operating System Eradication ⁽²⁾	-	-	-	-	-	-	-	-	-	-	-	5.500	-	-	-	-	-	5.500
2.1.2) OCONUS Layer 1 (L1) Fiber Optic Upgrade, far East (FE) ⁽³⁾	-	-	-	-	-	-	-	-	-	-	-	10.948	-	-	-	-	-	10.948
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	16.448	-	-	-	-	-	16.448

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Exhibit P-5, Cost Analysis: PB 2020 Navy												Date: March 2019						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 5						P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service						Item Number / Title [DODIC]: 1 / Next Generation Enterprise Service						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Hardware - OCONUS Network Improvement Cost	-	-	-	-	-	-	-	-	-	-	-	16.448	-	-	-	-	-	16.448
Hardware - OCONUS Cost																		
Recurring Cost																		
3.1.1) OCONUS Transition ⁽⁴⁾	-	-	-	-	-	32.003	-	-	12.063	-	-	11.923	-	-	-	-	-	11.923
3.1.2) OCONUS Technical Refresh ⁽⁵⁾	-	-	-	-	-	13.810	-	-	12.077	-	-	31.617	-	-	-	-	-	31.617
3.1.3) OCONUS Piers Technical Refresh ⁽⁶⁾	-	-	-	-	-	9.587	-	-	9.960	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	55.400	-	-	34.100	-	-	43.540	-	-	-	-	-	43.540
Subtotal: Hardware - OCONUS Cost	-	-	-	-	-	55.400	-	-	34.100	-	-	43.540	-	-	-	-	-	43.540
Hardware - JRSS Cost																		
Recurring Cost																		
4.1.1) Joint Regional Security Stack (JRSS)	-	-	24.628	-	-	0.685	-	-	-	-	-	0.008	-	-	-	-	-	0.008
Subtotal: Recurring Cost	-	-	24.628	-	-	0.685	-	-	-	-	-	0.008	-	-	-	-	-	0.008
Subtotal: Hardware - JRSS Cost	-	-	24.628	-	-	0.685	-	-	-	-	-	0.008	-	-	-	-	-	0.008
Hardware - P013 MILCON Cost																		
Recurring Cost																		
5.1.1) P013 MILCON ^(†) ⁽⁷⁾	-	-	-	-	-	-	541.000	1	0.541	903.000	1	0.903	-	-	-	903.000	1	0.903
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	0.541	-	-	0.903	-	-	-	-	-	0.903
Subtotal: Hardware - P013 MILCON Cost	-	-	-	-	-	-	-	-	0.541	-	-	0.903	-	-	-	-	-	0.903
Hardware - P-913 NCTAMS LANT C4I Cost																		
Recurring Cost																		
6.1.1) Shore Based Enterprise Network Enhancements: P-913 NCTAMS LANT C4I ⁽⁸⁾	-	-	-	-	-	-	-	-	3.414	-	-	1.000	-	-	-	-	-	1.000
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	3.414	-	-	1.000	-	-	-	-	-	1.000
Subtotal: Hardware - P-913 NCTAMS LANT C4I Cost	-	-	-	-	-	-	-	-	3.414	-	-	1.000	-	-	-	-	-	1.000

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Exhibit P-5, Cost Analysis: PB 2020 Navy													Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 5						P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service							Item Number / Title [DODIC]: 1 / Next Generation Enterprise Service					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	188.818	-	-	89.178	-	-	96.269	-	-	122.832	-	-	0.000	-	-	122.832

(†) indicates the presence of a P-5a

Footnotes:

(1) FY20 increase supports the Cable Plant outside plant/inside plant (OSP/ISP) facility upgrades.

(2) Eradication of all Windows Server 2008 from the environment due to end of life/end of support. Funding will replace the Operating Systems of 473 Servers currently operating Windows Server 2008 throughout the ONE-Net Enterprise with Windows Server 2016 or 2019.

(3) Requirement includes fiber optic and copper cabling, patch panels, wall and/or floor mounted cabinets and racks construction of UFC (Unified Capabilities Framework) compliant telecommunications room in accordance with DoD 8500.1. This upgrade is required to execute critical time sensitive National command Authority direct mission.

(4) NGEN OCONUS funding will provide for the security and technology improvements and sustainment efforts, to include systems/security engineering and integration, production, installation and implementation of network infrastructure, in support of the transition of ONE-NET into the NGEN business model. This will result in a fully integrated navy network with NIPR (unclassified) and SIPR (classified) enclaves operated via a controlled common operational approach as ONE-Net goes through the process of transition to the NMCI business model from both an operating model (GoGo/multivendor) and infrastructure perspective (aligning HW/SW/Capabilities to NMCI CONUS).

(5) PC Warranties (of which 15,386 have already expired and been extended) will expire (end of support) at the end of calendar year 2020, driving a one-time increase of \$24.2M to refresh 20,468 computers. Without replacing these machines, each may experience a DISA CAT 1 Security Technical Implementation Guide (STIG) hit (Cyber risk) on the Enterprise and place site accreditations packages at risk, resulting in a High Risk Escalation (HRE) scenario.

(6) FY20 and future years decrease due to realignment of funds from LI 8164 to LI 3050.

(7) Increase from FY19 to FY20 will support equipment purchases associated with the development and refurbishment of Sensitive Compartmented Information Facilities to ensure information sharing is executed in a controlled environment and at the appropriate classification levels for the Cyber Mission Forces Teams.

(8) FY20 decrease supports final stages of procurement and installation of NMCI infrastructure to the new Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMSLANT) Facility (MILCON P-913).

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 07 / 5				P-1 Line Item Number / Title: 8164 / Next Generation Enterprise Service				Item Number / Title [DODIC]: 1 / Next Generation Enterprise Service				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
5.1.1) P013 MILCON		2019	SPAWAR / Spawar	C / FFP	San Diego, CA	Mar 2019	Mar 2019	1	541.000	N	Mar 2019	
5.1.1) P013 MILCON		2020	SPAWAR / Spawar	C / FFP	San Diego, CA	Mar 2020	Mar 2020	1	903.000	N	Mar 2020	

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 08: Spares and Repair Parts / BSA 1: Spares And Repair Parts							P-1 Line Item Number / Title: 9020 / Spares and Repair Parts					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 000												
Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	287.453	307.575	375.608	0.000	375.608	322.002	321.598	327.359	333.778	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	287.453	307.575	375.608	0.000	375.608	322.002	321.598	327.359	333.778	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	287.453	307.575	375.608	0.000	375.608	322.002	321.598	327.359	333.778	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: OPN-8 Budget Line Item (BLI) 9020 Spares and Repair Parts Budget, provides funding to procure spares for systems and equipment budgeted in Budget Activities (BA) 01-07. This budget is a follow on account, which supports the End-Item Hardware procurements. It is further broken down within three separate sub-line items: 10 (9020-10) Initial Spares, 90 (9020-90) Vendor-Direct (Replenishment) Spares, and 20 (9020-20) for Coordinated Shipboard Allowance List (COSAL) Outfitting Spares. Sub-line items 10 and 90 collectively are referred to as Interim Spares. During this Interim phase, Initial Spares are procured by NAVSEA Program Offices and other SYSCOMs to support newly procured hardware installations. This material may include, but is not limited to, Installation and Check out (INCO-I/INCO-R) Spares, On-Board Repair Parts (OBRP), Maintenance Assistance Modules (MAM) and Interim Depot Stock. INCOs are tools, hardware, spares, and repair parts provided with end-items to be used during installation and check out of a newly installed end-item/System. OBRPs are an initial lay-in of spares and repair parts to support new system installations. MAMs are plug-in/unplug, remove and replace items, such as circuit cards, used for diagnostic purposes in performing corrective maintenance on end-items. Interim Depot stock, also known as Vendor Direct/ Replenishment Spares, provide Appropriation Purchase Account (APA) material for planned equipment replacement programs and supports the depot level maintenance turn-a-round time and depot through put capabilities. During the Outfitting phase, material procurements buy out material from the DoD supply system to provide OBRPs for allowance increases in initial range and depth, maintenance and modernizations efforts, and configuration changes. In addition to specific requirements identified above, the overall 9020 Spares and Repair parts budget supports Special Programs such as Q-COSAL range and depth repair parts, special tools, chemicals and other miscellaneous portable items necessary for operation, overhaul, and repair of reactor plant equipment for each nuclear powered hull; Gold Disk micro/miniature 2M repair; Portable Firefighting Equipment; and Damage Control Locker parts.												

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy								Date: March 2019		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 08: Spares and Repair Parts / BSA 1: Spares And Repair Parts						P-1 Line Item Number / Title: 9020 / Spares and Repair Parts				
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: 000										
Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-18	OPN spares				- / -	- / 287.453	- / 307.575	- / 375.608	- / -	- / 375.608
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 287.453	- / 307.575	- / 375.608	- / 0.000	- / 375.608
Title represents the P-18 Title for Spares.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: Justification for FY20 increases, all amounts delineate program increases compared to FY19. Initial Spares 0670/ (Initial)Other Navigation equipment- (Initial) Increase procures spares for AN/WSN-7 (\$0.27 million) 0840 / Sub Periscope, Imaging and Supt Equip Prog - (Initial) Increase procures spares for: Technical Insertion, Electronic Warfare Enhanced Upgrade, Imaging Block Upgrade and the Type 20 Task Oriented Technology Insertion Mast (TOTIM) Mast. (\$14.95 million) 0900 / DDG MOD - (Initial) Increase procures initial spares to support installation of Gun Controls Systems (\$0.98 million), multi-Mission Signal Processor (\$1.07M), and AN/SQQ-89 T118 mods, (\$1.16 million), MK41 w/ESSM (\$0.771 million). 0946 / LPD Class Support Equipment - (Initial) Increase procures spares to support installation of HM&E (\$0.1 million), electrical(\$0.06 million), and survivability (\$0.07 million) modifications. 0977 / Underwater EOD Programs - (Initial) Increase procures spares to support Underwater Unmanned Vehicle (UUV) Advanced Sensors (Autonomous Large Area Sonar (ATLAS) and Small Synthetic Aperture Minehunter (SSAM)), VSW/EOD auxiliary equipment upgrades (\$5.5 million), and marine mammal program equipment, (\$1.3 million). 1600 / LCS Common Mission Module Equipment - (Initial) Increase procures spares for MPCE Sonar Processing systems on (4) LCS ships (\$0.897 million); (2) Shipboard Over-the-Horizon Communication systems (\$0.080 million) 1601 / LCS MCM Mission Modules - (Initial) Increase procures spares for new MCM systems that include: AN/AQS-20C mine-hunting sonar systems (\$2.4 million), and SMCM Unmanned Underwater Vehicles (UUV) Knifefish systems (\$4.5 million). 1604 / LCS In-Service Modernization - (Initial) Increase procures spares for mandatory safety design changes (\$0.63 million), Cyber Security remediation actions (\$0.8 million), obsolescence and reliability resolution (\$2.5 million) modernization efforts to the HM&E, C4I, and Combat Systems onboard (8) LCS ships scheduled for availabilities in FY20. 2150 / SSN Acoustic - (Initial) Increase procures spares for Low Cost Conformal Array (\$0.7 million) and Towed Systems ECPs (\$1.05 million) 2614 / Adv Tact Data Link Sys (ATDLS) - (Initial) Increase procures spares for command and control processor (C2P) tech refresh(\$0.144 million) and Link 16 MIDS on Ship (MOS) upgrades (\$0.135 million) due to MSD being shifted from SEP 20 and JUN 19 to FEB 22 and MAR 21 respectively.										

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 08: Spares and Repair Parts / BSA 1: Spares And Repair Parts		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		
2622 / Minesweeping System Replacement - (Initial) Increase procures spares and INCOs for (2) additional SMCM UUV (Knifefish) systems being installed onboard LCS ships (\$0.66 million).		
2624 / Shallow Water CM Ship - (Initial) Increase procures spares and INCOs for (1) additional COBRA system onboard LCS ships (\$0.44 million).		
2657 / NAVSTAR GPS RECEIVER (SPACE) - (Initial) Increase procures spares for (6) additional systems for Global Positioning System Based Positioning, Navigation, and Timing Service (GPNTS) (\$0.11 million). In FY17, DON leadership approved rapid fielding for GPNTS to meet FOC by FY26 as opposed to FY32. Funding supports INCO spares and pre-MSD depot support for additional fielded units.		
2830 / Afloat ATC Equip - (Initial) Increase procures (2) spares for SPN-46 BLK IV upgrade and (1) spare for SPN-50 V(1), which mitigates obsolescence issues in the Automatic Carrier Landing Systems (ACLS), (\$1.221 million). ACLS provides precision electronic guidance for landing suitably equipped aircraft under all weather conditions on CVNs, LHA/LHD class ships and selected Naval Air Stations.		
2867 / Joint Precision Approach and Landing System (JPALS) - (Initial) Increase procures (8) spares to support primary precision approach and landing system for CVN and LHA/D class ships to support aircraft without SPN-46 ACLS capability, (\$8.137 million)		
2914 / Distributed Common Ground System-Navy - (Initial) Increase procures spares for (2) Product Improvements Afloat, (4) Increment 2 Afloat procurements, (1) Increment 2 Ashore procurement (\$0.397 million)		
2915 / CANES - (Initial) Increase procures spares for afloat and ashore installations and tech insertions. CANES Hardware 1.2 (Upgrade from Hardware 1.0 for new class system variants), includes servers, workstations, and network storage, Limited Development Deployment (LDD) CANES architecture driving increases in interim spares requirements. HW 1.2 lays the groundwork for the next revision of the Video Teleconference hardware SX-80 adding 1080P video support for H265 supporting future bandwidth efficiencies capabilities and replaces the C60 End-of-Life system supported spares. (\$1.741 million)		
2950 / Network Tactical Common Data Link (CDL)- increase procures to spares for four (4) Communications Data Link System (CDLS) Technical Refresh (TR) systems on CVN platforms (\$0.208 million)		
3620 / Coast Guard Equipment - (Initial) Increase procures spares for Navy-type, Navy Owned (NTNO) equipment Multi-Mode Radar and Mk20 Mod1 Electro Optical Sighting Systems for Offshore Patrol Cutter (WMSM) requirements. (\$0.226 million)		
4213 / Aircraft Support Equipment - (Initial) Increase also procures spares for engineering change proposals for (48) Aircraft Launch and Recovery Equipment, Advanced Arresting Gear (AAG), and Electromagnetic Aircraft Landing/Launching (EMAL) systems. (\$0.646 million)		
4248 / Legacy Airborne MCM - (Initial) Increase procures spares for Airborne Mine Counter Measures (AMCM) and Aviation Mine Neutralization System (AMNS) engineering change proposals due to obsolescence and safety design changes. (\$0.289 million)		
5420 / SSN Combat Control Systems - (Initial) Increase procures spares for 2-year-cycle system upgrades. Technical insertion 18 (\$1.08 million) Technical insertion 20 (\$1.01 million)		
5509 / Explosive Ordnance Disposal Equipment - (Initial) Increase procures spares to support (602) Counter Radio-Controlled Improvised Explosive Device (IED) Electronic Warfare systems. (\$2.280 million)		
5664 / Surface Training Equipment - (Initial) Increase procures spares in support of LCS trainers and (14) Battle Force Tactical Trainers (BFTT) ship sets: AN/USQ-T46, AN/USQ-T52. (\$1.168 million)		
6033 / Amphibious Equipment & Rolling Stock (Initial)- Increase funds spares to support Logistics Over the Shore equipment procured in prior fiscal years. (\$0.132 million)		
9501 / Rolling Stock - (Initial) Increase procures spares to support changes to Navy rolling stock inventory. (\$0.08 million)		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 08: Spares and Repair Parts / BSA 1: Spares And Repair Parts		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 000		
0920 / Outfitting (COSAL) Increase buys out supply system material in support of all post material support date (MSD) installations across the Navy Enterprise for Navy Multiband Terminal (NMT), Ship Signal Exploration Equipment (SSEE), Cruiser Modernization, Shipboard Tactical Communications, AN/SLQ-32, Ship Missile Support Equipment, AN/SQQ-89 ASW Combat System, Items less than \$5M (BA-1 and BA-2), and other OPN funded end-item programs as well as material to support expeditionary programs. Outfitting also buys out material procured as range and depth increases for allowances/onboard repair parts (OBRP). (\$39.6 million) In addition increase funds special programs to improve supply readiness of systems: Ship Signal Exploitation Equipment (SSEE) SSEE MODS readiness based sparing (RBS) BACKFIT Special program: Delayed RBS run has resulted in 6 DDGs not receiving their OBRPs. (\$2.535 million) AN/SLQ-32 (V) 6 BLK2 RBS BACKFIT Special Program: Original Equipment Manufacturer engineering estimates were used for initial RBS, but current complement of OBRPs only supports approximately 25% of failures. Current Operational Availability is less than 0.4. Re-run of RBS indicates Operational Availability will increase from 0.38 to almost 0.7. This supports 13 ships. (\$2.470 million) 9924 / Spares for NAVSEA - (Outfitting) Increase procures additional micro/miniature repair, damage control and portable firefighting equipment.(\$3.157 million) 9925 / Spares for NAVFAC - (Outfitting) - Increase funds spares for tactical vehicles and construction & maintenance equipment for expeditionary units. (\$0.361 million) VENDOR DIRECT Spares (Replenishment) 0942 / Virginia Class Support Equipment - (REPLEN) - Increase is reflects combination of SEAWOLF and Virginia class Advanced Equipment Replacement Program (AERP). AERP was originally established to assist in shortening the time required to accomplish the overhaul and/or conversion of SSBN submarines from Polaris to Poseidon configuration. The program has since expanded and evolved into a system for supporting programmed and condition based maintenance for all SSN depot availabilities. Consists of 53 NSNs with average unit cost of (\$0.460 million). (\$13.554 million) 1603 / LCS SUW Mission Modules - (REPLEN) Increase procures spares for MK50 Gun Mission Module and 2J COG spares to support LCS SUW operational missions. (\$2.424 million) 2624 / Shallow Water MCM - (REPLEN) Increase procures spares for appropriations purchases account (APA) material in support of Coastal Battlefield Reconnaissance and Analysis (COBRA) operations. (\$0.128 million) 5111 / Ship Gun Systems Equipment - (REPLEN) Increase procures 2J spares equipment for the MK20 Electro-Optical Sensor System (EOSS) and MK46 Optical Sight System (OSS). Equipment is seeing increased unplanned usage. (\$0.867 million)		

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2020 Navy					Date: March 2019	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 08 / 1		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts			Title: OPN spares	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2018 (\$ M)	FY 2019 (\$ M)	FY 2020 Base (\$ M)	FY 2020 OCO (\$ M)	FY 2020 Total (\$ M)
Initial						
BA 01 - Ships Support Equipment						
0200 / Surface Combatant HM&E	-	-	0.227	0.049	-	0.049
0670 / Other Navigation Equipment	-	-	-	0.270	-	0.270
0840 / Sub Periscope, Imaging and Supt Equip Prog	-	11.313	7.138	22.091	-	22.091
0900 / DDG Mod	-	15.672	0.813	4.844	-	4.844
0920 / Outfitting-COSAL	-	58.141	114.520	159.082	-	159.082
0935 / Pollution Control Equipment	-	0.129	0.044	0.088	-	0.088
0942 / Virginia Class Support Equipment	-	-	0.068	0.000	-	0.000
0944 / LCS Class Support Equipment	-	1.492	2.754	0.000	-	0.000
0946 / LPD Class Support Equipment	-	-	-	0.233	-	0.233
0960 / CG Modernization	-	0.680	1.248	0.951	-	0.951
0977 / Underwater EOD Programs	-	5.355	2.424	9.255	-	9.255
0981 / Items less than \$5 Million	-	-	-	0.015	-	0.015
1600 / LCS Common Mission Modules Equipment	-	0.118	0.068	1.035	-	1.035
1601 / LCS MCM Mission Modules	-	4.304	0.971	7.912	-	7.912
1602 / LCS ASW Mission Modules	-	0.506	0.578	0.300	-	0.300
1603 / LCS SUW Mission Modules	-	1.984	1.559	1.419	-	1.419
1604 / LCS In-Service Modernization	-	-	-	3.434	-	3.434
BA 02 - Communications & Electronics Equip						
2026 / SPQ-9B Radar	-	0.287	1.003	0.367	-	0.367
2136 / AN/SQQ-89 Surf ASW Cmbt Sys	-	0.869	3.091	2.636	-	2.636
2150 / SSN Acoustic Equipment	-	37.233	20.540	22.295	-	22.295
2210 / Submarine Acoustic Warfare System	-	2.023	0.661	0.229	-	0.229
2213 / Surface Ship Torpedo Def (SSTD)	-	0.853	0.799	0.264	-	0.264
2237 / SURTASS	-	2.111	2.782	2.753	-	2.753
2312 / AN/SLQ-32	-	11.976	9.903	4.289	-	4.289
2360 / Shipboard IW Exploit	-	7.077	4.978	4.095	-	4.095
2361 / Automatic Identification System (AIS)	-	0.010	0.005	0.033	-	0.033
2606 / Cooperative Engagement Capability	-	1.492	0.831	0.548	-	0.548
2611 / Naval Tact Cmd Supt Sys (NTCSS)	-	0.204	0.128	0.103	-	0.103
2614 / Adv Tact Data Link Sys (ATDLS)	-	5.647	1.669	2.048	-	2.048

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2020 Navy					Date: March 2019	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 08 / 1		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts			Title: OPN spares	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2018 (\$ M)	FY 2019 (\$ M)	FY 2020 Base (\$ M)	FY 2020 OCO (\$ M)	FY 2020 Total (\$ M)
2618 / Navy Command and Control System (NCCS)	-	0.150	0.187	0.053	-	0.053
2622 / Minesweeping System Replacement	-	1.202	-	0.658	-	0.658
2624 / Shallow Water MCM	-	0.073	-	0.437	-	0.437
2657 / NAVSTAR GPS Receivers (Space)	-	0.061	0.149	0.252	-	0.252
2676 / Strategic Platform Support Equip	-	1.641	0.861	0.907	-	0.907
2820 / Ashore ATC Equipment	-	5.026	3.223	2.017	-	2.017
2830 / Afloat ATC Equipment	-	1.642	0.546	1.767	-	1.767
2867 / Joint Precision Approach and Landing System(JPALS)	-	-	4.137	12.274	-	12.274
2876 / Naval Mission Planning Systems	-	1.561	0.317	0.086	-	0.086
2906 / Tactical/Mobile C4I Systems	-	2.189	1.625	0.652	-	0.652
2914 / Distributed Common Ground System-Navy (DCGS-N)	-	0.511	0.157	0.554	-	0.554
2915 / CANES	-	11.645	6.240	8.021	-	8.021
2925 / CANES Intell	-	0.030	0.896	0.813	-	0.813
2950 / Network Tactical Common Data Link (CDL)	-	-	0.147	0.350	-	0.350
2960 / Integ Combat System Test Facility	-	0.250	0.150	0.145	-	0.145
2980 / Items less than \$5 Million	-	0.627	0.438	0.214	-	0.214
3010 / Shipboard Tactical Comms	-	0.567	0.598	0.444	-	0.444
3050 / Ship Communications Automation	-	0.665	1.062	1.005	-	1.005
3057 / Communications Items under \$5M	-	-	-	0.010	-	0.010
3107 / Submarine Broadcast Support	-	0.064	0.121	0.123	-	0.123
3130 / Submarine Communication Equipment	-	0.701	1.377	0.765	-	0.765
3215 / Satellite Communications Systems	-	0.021	0.127	0.111	-	0.111
3216 / Navy Multiband Terminal (NMT)	-	0.224	0.231	0.159	-	0.159
3415 / Info Systems Security Program (ISSP)	-	0.951	1.968	0.000	-	0.000
3620 / Coast Guard Equipment	-	-	-	0.226	-	0.226
BA 03 - Aviation Support Equipment						
4204 / Weapons Range Support Equipment	-	4.729	6.762	3.480	-	3.480
4213 / Aircraft Support Equipment	-	2.633	1.413	2.059	-	2.059
4226 / Meteorological Equipment	-	0.001	0.752	0.736	-	0.736
4242 / DCRS/DPL	-	0.069	0.055	0.000	-	0.000
4248 / Legacy Airborne MCM	-	0.733	0.359	0.648	-	0.648
4268 / Aviation Support Equipment	-	-	-	0.039	-	0.039

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2020 Navy					Date: March 2019	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 08 / 1		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts			Title: OPN spares	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2018 (\$ M)	FY 2019 (\$ M)	FY 2020 Base (\$ M)	FY 2020 OCO (\$ M)	FY 2020 Total (\$ M)
BA 04 - Ordnance Support Equipment						
5231 / Ship Missile Support Equipment	-	4.299	4.447	3.766	-	3.766
5253 / Tomahawk Support Equipment	-	0.311	0.365	0.069	-	0.069
5420 / SSN Combat Control Systems	-	9.244	1.792	3.885	-	3.885
5509 / Explosive Ordnance Disposal Equip	-	0.127	0.002	2.292	-	2.292
5661 / Submarine Training Device Mods	-	0.769	0.322	0.140	-	0.140
5664 / Surface Training Equipment	-	-	0.108	1.276	-	1.276
BA 05 - Civil Engineering Support Equip						
6033 / Amphibious Equipment	-	-	-	0.132	-	0.132
9501 / Spares for Rolling Stock	-	0.057	0.138	0.084	-	0.084
BA 07 - Personnel & Command Support Equip						
8106 / Command Support Equipment	-	0.022	0.006	0.007	-	0.007
8128 / Physical Security Equipment	-	0.119	-	0.000	-	0.000
8161 / Enterprise Information Technology	-	1.111	0.138	0.085	-	0.085
8164 / Next Generation Enterprise Service	-	0.204	0.778	0.526	-	0.526
BA 08 - Spares and Repair Parts						
9924 / Spares for NAVSEA (For NAVSEA special programs)	-	-	0.276	3.433	-	3.433
9925 / Spares for NAVFAC (for NAVFAC special programs)	-	0.264	0.286	0.887	-	0.887
Subtotal: Initial	-	223.969	221.358	306.225	-	306.225
Replenishment						
BA 01 - Ships Support Equipment						
0840 / Sub Periscope, Imaging and Supt Equip Prog	-	4.860	6.842	2.776	-	2.776
0942 / Virginia Class Support Equipment	-	6.522	2.703	16.257	-	16.257
0950 / Strategic Platform Support Equip	-	16.237	16.545	13.444	-	13.444
1600 / LCS Common Mission Modules Equipment	-	1.340	1.216	0.799	-	0.799
1603 / LCS SUW Mission Modules	-	-	-	2.434	-	2.434
BA 02 - Communications & Electronics Equip						
2130 / Surface Sonar Support Equipment	-	3.094	1.530	1.426	-	1.426
2136 / AN/SQQ-89 Surf ASW Cmbt Sys	-	0.411	7.266	6.031	-	6.031
2145 / AN/BQQ-5	-	0.021	10.403	4.496	-	4.496
2210 / Submarine Acoustic Warfare System	-	1.347	1.497	0.664	-	0.664
2213 / Surface Ship Torpedo Def (SSTD)	-	0.385	0.396	0.162	-	0.162

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2020 Navy					Date: March 2019	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 08 / 1		P-1 Line Item Number / Title: 9020 / Spares and Repair Parts			Title: OPN spares	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2018 (\$ M)	FY 2019 (\$ M)	FY 2020 Base (\$ M)	FY 2020 OCO (\$ M)	FY 2020 Total (\$ M)
2237 / SURTASS	-	9.282	8.308	4.335	-	4.335
2622 / Minesweeping System Replacement	-	2.117	2.510	1.304	-	1.304
2624 / Shallow Water MCM	-	0.077	0.142	0.270	-	0.270
BA 03 - Aviation Support Equipment						
4226 / Meteorological Equipment	-	2.264	1.779	1.419	-	1.419
4248 / Legacy Airborne MCM	-	2.800	10.645	2.055	-	2.055
BA 04 - Ordnance Support Equipment						
5111 / Ship Gun Systems Equipment	-	4.218	5.752	6.619	-	6.619
5253 / Tomahawk Support Equipment	-	0.185	0.479	0.160	-	0.160
5358 / Strategic Missile Systems Equip	-	5.529	5.439	3.349	-	3.349
5420 / SSN Combat Control Systems	-	0.653	1.030	0.286	-	0.286
5429 / ASW Support Equipment	-	1.822	1.735	1.097	-	1.097
BA 08 - Spares and Repair Parts						
9999 / All Other OPN	-	0.320	-	0.000	-	0.000
Subtotal: Replenishment	-	63.484	86.217	69.383	-	69.383
Total Cost (Initial + Replenishment)	-	287.453	307.575	375.608	-	375.608