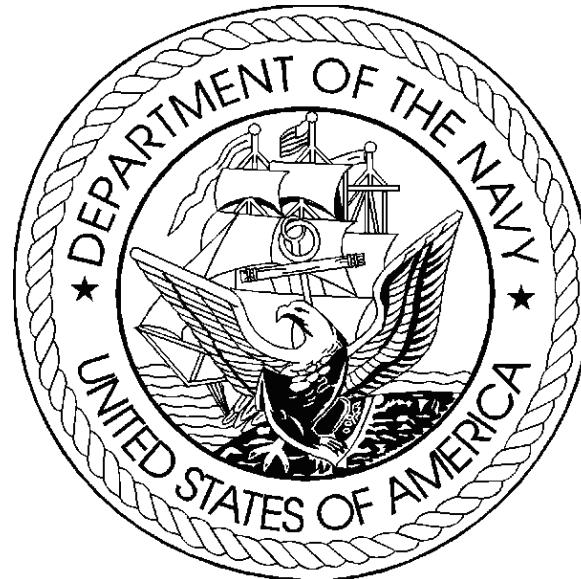


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**Department of Defense
Fiscal Year (FY) 2017 President's Budget Submission**

February 2016



Navy

Justification Book Volume 3 of 5

Other Procurement, Navy

BA 3

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The estimated cost for this report for the Department of the Navy (DON) is \$4,654.

The estimated total cost for supporting the DON budget justification material is approximately \$1,834,000 for the 2016 fiscal year. This includes \$75,200 in supplies and \$1,758,800 in labor.

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Navy • President's Budget Submission FY 2017 • Procurement

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Department of Defense Appropriations Act, 2017

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, \$6,463,067,000, to remain available for obligation until September 30, 2019.

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Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation	FY 2015 (Base & OCO)	FY 2016 Base Enacted	FY 2016 OCO Enacted	FY 2016 Total Enacted
Other Procurement, Navy	6,405,148	6,484,257	12,186	6,496,443
Total Department of the Navy	6,405,148	6,484,257	12,186	6,496,443

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Department of the Navy
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)

14 Jan 2016

Appropriation	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Other Procurement, Navy	6,338,861	124,206	6,463,067
Total Department of the Navy	6,338,861	124,206	6,463,067

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Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: Other Procurement, Navy

Budget Activity	FY 2015 (Base & OCO)	FY 2016 Base Enacted	FY 2016 OCO Enacted	FY 2016 Total Enacted
01. Ships Support Equipment	2,275,493	1,846,326		1,846,326
02. Communications & Electronics Equip	2,229,171	2,354,322		2,354,322
03. Aviation Support Equipment	370,526	419,225		419,225
04. Ordnance Support Equipment	693,093	852,207		852,207
05. Civil Engineering Support Equip	54,526	54,933	186	55,119
06. Supply Support Equipment	92,883	246,708		246,708
07. Personnel & Command Support Equip	386,985	403,072		415,072
08. Spares and Repair Parts	302,471	307,464		307,464
Total Other Procurement, Navy	6,405,148	6,484,257	12,186	6,496,443

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Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: Other Procurement, Navy

Budget Activity	FY 2017 Base	FY 2017 OCO	FY 2017 Total
01. Ships Support Equipment	1,878,390		1,878,390
02. Communications & Electronics Equip	2,122,908	12,000	2,134,908
03. Aviation Support Equipment	439,109		439,109
04. Ordnance Support Equipment	933,565	99,329	1,032,894
05. Civil Engineering Support Equip	84,345	630	84,975
06. Supply Support Equipment	316,609	25	316,634
07. Personnel & Command Support Equip	364,275	12,222	376,497
08. Spares and Repair Parts	199,660		199,660
Total Other Procurement, Navy	6,338,861	124,206	6,463,067

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Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	FY 2015			FY 2016			FY 2016			FY 2016		
		Ident Code	(Base & OCO) Quantity	Cost	Base Quantity	Enacted Cost	OCO Quantity	Enacted Cost	Total Quantity	Enacted Cost	S e c		
Budget Activity 01: Ships Support Equipment													
Ship Propulsion Equipment													
1 LM-2500 Gas Turbine													
2 Allison 501k Gas Turbine	A			7,822		4,881				4,881	U		
3 Surface Power Equipment	A			2,155		5,814				5,814	U		
4 Hybrid Electric Drive (HED)	A			12,638		29,106				29,106	U		
Generators													
5 Surface Combatant HM&E	A			26,664		36,860				36,860	U		
Navigation Equipment													
6 Other Navigation Equipment	A			39,298		87,481				87,481	U		
Periscopes													
7 Sub Periscopes & Imaging Equip	A			57,221		63,109				63,109	U		
Other Shipboard Equipment													
8 Sub Periscope, Imaging and Supt Equip Prog	A										U		
9 DDG Mod	A			324,219		421,195				421,195	U		
10 Firefighting Equipment	A			15,134		13,983				13,983	U		
11 Command and Control Switchboard	A			2,219		2,255				2,255	U		
12 LHA/LHD Midlife	A			13,826		26,545				26,545	U		
13 LCC 19/20 Extended Service Life Program	A			21,025		8,631				8,631	U		
14 Pollution Control Equipment	B			10,146		16,609				16,609	U		
15 Submarine Support Equipment	A			11,815		10,498				10,498	U		

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Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	FY 2017			FY 2017			FY 2017			S e c -
		Ident Code	Base Quantity	Cost	OCO Quantity	Cost	Total Quantity	Cost			
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
Budget Activity 01: Ships Support Equipment											
Ship Propulsion Equipment											
1	LM-2500 Gas Turbine	A									U
2	Allison 501k Gas Turbine	A									U
3	Surface Power Equipment	A		15,514					15,514		U
4	Hybrid Electric Drive (HED)			40,132					40,132		U
Generators											
5	Surface Combatant HM&E	A		29,974				29,974			U
Navigation Equipment											
6	Other Navigation Equipment	A		63,942				63,942			U
Periscopes											
7	Sub Periscopes & Imaging Equip	A									U
Other Shipboard Equipment											
8	Sub Periscope, Imaging and Supt Equip Prog	A		136,421				136,421			U
9	DDG Mod	A		367,766				367,766			U
10	Firefighting Equipment	A		14,743				14,743			U
11	Command and Control Switchboard	A		2,140				2,140			U
12	LHA/LHD Midlife	A		24,939				24,939			U
13	LCC 19/20 Extended Service Life Program	A									U
14	Pollution Control Equipment	B		20,191				20,191			U
15	Submarine Support Equipment	A		8,995				8,995			U

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

14 Jan 2016

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	FY 2015			FY 2016			FY 2016			FY 2016		
		Ident Code	(Base & OCO) Quantity	Cost	Base Quantity	Enacted Cost	OCO Quantity	Enacted Cost	Total Quantity	Enacted Cost	S e c		
16	Virginia Class Support Equipment	A		69,168		35,747				35,747	U		
17	LCS Class Support Equipment			25,742		39,349				39,349	U		
18	Submarine Batteries			32,752		23,072				23,072	U		
19	LPD Class Support Equipment			35,979		45,929				45,929	U		
20	DDG 1000 Class Support Equipment	A									U		
21	Strategic Platform Support Equip	A		11,558		18,563				18,563	U		
22	DSSP Equipment	A		5,518		7,376				7,376	U		
23	CG Modernization	A		375,500							U		
24	LCAC	A		7,380		15,125				15,125	U		
25	Underwater EOD Programs			58,576		51,652				51,652	U		
26	Items Less Than \$5 Million	A		70,512		95,349				95,349	U		
27	Chemical Warfare Detectors	A		2,937		3,027				3,027	U		
28	Submarine Life Support System	A		8,385		7,399				7,399	U		
Reactor Plant Equipment													
29	Reactor Power Units	A		298,200							U		
30	Reactor Components	A		288,822		296,095				296,095	U		
Ocean Engineering													
31	Diving and Salvage Equipment	A		10,572		15,982				15,982	U		
Small Boats													
32	Standard Boats	A		180,365		29,982				29,982	U		

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Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c -
		Ident Code	Quantity	Cost	Quantity	Cost	Quantity	
----	-----	----	-----	----	-----	-----	----	
16	Virginia Class Support Equipment	A		66,838			66,838	U
17	LCS Class Support Equipment			54,823			54,823	U
18	Submarine Batteries			23,359			23,359	U
19	LPD Class Support Equipment			40,321			40,321	U
20	DDG 1000 Class Support Equipment	A		33,404			33,404	U
21	Strategic Platform Support Equip	A		15,836			15,836	U
22	DSSP Equipment	A		806			806	U
23	CG Modernization	A						U
24	LCAC	A		3,090			3,090	U
25	Underwater EOD Programs			24,350			24,350	U
26	Items Less Than \$5 Million	A		88,719			88,719	U
27	Chemical Warfare Detectors	A		2,873			2,873	U
28	Submarine Life Support System	A		6,043			6,043	U
Reactor Plant Equipment								
29	Reactor Power Units	A						U
30	Reactor Components	A		342,158			342,158	U
Ocean Engineering								
31	Diving and Salvage Equipment	A		8,973			8,973	U
Small Boats								
32	Standard Boats	A		43,684			43,684	U

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Department of the Navy
 FY 2017 President's Budget
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 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	FY 2015		FY 2016		FY 2016		FY 2016		S e c
		Ident Code	(Base & OCO) Quantity	Base Cost	Enacted Quantity	Cost	OCO Enacted Quantity	Cost	Total Enacted Quantity	
Training Equipment										
33	Other Ships Training Equipment	A	17,152		62,358			62,358	U	
Production Facilities Equipment										
34	Operating Forces Ipe	A		39,306		58,138		58,138	U	
Other Ship Support										
35	Nuclear Alterations	A	118,129		132,625			132,625	U	
36	LCS Common Mission Modules Equipment		30,938		23,061			23,061	U	
37	LCS MCM Mission Modules		15,270		67,451			67,451	U	
38	LCS ASW Mission Modules								U	
39	LCS SUW Mission Modules		14,750		35,228			35,228	U	
40	Remote Minehunting System (RMS)	A			53,077			53,077	U	
Logistic Support										
41	LSD Midlife		13,800		2,774			2,774	U	
Total Ships Support Equipment										
			2,275,493		1,846,326			1,846,326		

Budget Activity 02: Communications & Electronics Equip

Ship Sonars										
42	SPQ-9B Radar	A	26,735		19,841			19,841	U	
43	AN/SQQ-89 Surf ASW Combat System	A	78,802		103,241			103,241	U	
44	SSN Acoustics	A	160,932		232,835			232,835	U	
45	SSN Acoustic Equipment	A							U	
46	Undersea Warfare Support Equipment	A	4,663		7,331			7,331	U	

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

14 Jan 2016

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	FY 2017			FY 2017			FY 2017		
		Ident Code	Base Quantity	Cost	OCO Quantity	Cost	Total Quantity	Cost	S e c -	
-----	-----	-----	-----	-----	-----	-----	-----	-		
Training Equipment										
33	Other Ships Training Equipment	A						U		
Production Facilities Equipment										
34	Operating Forces Ipe	A		75,421			75,421	U		
Other Ship Support										
35	Nuclear Alterations	A		172,718			172,718	U		
36	LCS Common Mission Modules Equipment			27,840			27,840	U		
37	LCS MCM Mission Modules			57,146			57,146	U		
38	LCS ASW Mission Modules			31,952			31,952	U		
39	LCS SUW Mission Modules			22,466			22,466	U		
40	Remote Minehunting System (RMS)	A						U		
Logistic Support										
41	LSD Midlife			10,813			10,813	U		
Total Ships Support Equipment										
				1,878,390			1,878,390			
Budget Activity 02: Communications & Electronics Equip										

Ship Sonars										
42	SPQ-9B Radar	A		14,363			14,363	U		
43	AN/SQQ-89 Surf ASW Combat System	A		90,029			90,029	U		
44	SSN Acoustics	A						U		
45	SSN Acoustic Equipment	A		248,765			248,765	U		
46	Undersea Warfare Support Equipment	A		7,163			7,163	U		

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

14 Jan 2016

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	FY 2015			FY 2016			FY 2016			S e c
		Ident Code	(Base & OCO) Quantity	Cost	Base Quantity	Enacted Cost	OCO Quantity	Enacted Cost	Total Quantity	Enacted Cost	
47	Sonar Switches and Transducers	A		11,621		11,781				11,781	U
	ASW Electronic Equipment										
48	Submarine Acoustic Warfare System	A		22,721		19,718				19,718	U
49	SSTD	A		10,653		8,396				8,396	U
50	Fixed Surveillance System	A		170,831		146,968				146,968	U
51	SURTASS	A		23,819		12,953				12,953	U
52	Maritime Patrol and Reconnaissance Force	A		14,390		13,725				13,725	U
	Electronic Warfare Equipment										
53	AN/SLQ-32	A		195,082		296,271				296,271	U
	Reconnaissance Equipment										
54	Shipboard IW Exploit	A		123,362		138,002				138,002	U
55	Automated Identification System (AIS)				164		152			152	U
	Submarine Surveillance Equipment										
56	Submarine Support Equipment Prog	A		36,938		78,816				78,816	U
	Other Ship Electronic Equipment										
57	Cooperative Engagement Capability	B		33,939		25,695				25,695	U
58	Trusted Information System (TIS)				324		284			284	U
59	Naval Tactical Command Support System (NTCSS)	A		8,066		14,416				14,416	U
60	ATDLS	A		16,568		23,069				23,069	U
61	Navy Command and Control System (NCCS)				5,219		4,054			4,054	U
62	Minesweeping System Replacement	A		36,259		21,014				21,014	U

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Department of the Navy
 FY 2017 President's Budget
 Exhibit P-1 FY 2017 President's Budget
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 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	FY 2017			FY 2017			FY 2017			S e c -
		Ident Code	Base Quantity	Cost	OCO Quantity	Cost	Total Quantity	Cost			
----	-----	----	-----	----	-----	----	----	-----	-----	-----	
47	Sonar Switches and Transducers	A									U
ASW Electronic Equipment											
48	Submarine Acoustic Warfare System	A		21,291				21,291			U
49	SSTD	A		6,893				6,893			U
50	Fixed Surveillance System	A		145,701				145,701			U
51	SURTASS	A		36,136				36,136			U
52	Maritime Patrol and Reconnaissance Force	A									U
Electronic Warfare Equipment											
53	AN/SLQ-32	A		274,892				274,892			U
Reconnaissance Equipment											
54	Shipboard IW Exploit	A		170,733				170,733			U
55	Automated Identification System (AIS)			958				958			U
Submarine Surveillance Equipment											
56	Submarine Support Equipment Prog	A									U
Other Ship Electronic Equipment											
57	Cooperative Engagement Capability	B		22,034				22,034			U
58	Trusted Information System (TIS)										U
59	Naval Tactical Command Support System (NTCSS)	A		12,336				12,336			U
60	ATDLS	A		30,105				30,105			U
61	Navy Command and Control System (NCCS)			4,556				4,556			U
62	Minesweeping System Replacement	A		56,675				56,675			U

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Department of the Navy
 FY 2017 President's Budget
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 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	FY 2015		FY 2016		FY 2016		FY 2016		S e c
		Ident Code	(Base & OCO) Quantity	Base Cost	Enacted Quantity	Cost	OCO Quantity	Enacted Cost	Total Quantity	
63	Shallow Water MCM	B								U
64	Navstar GPS Receivers (SPACE)	A		15,232		12,359			12,359	U
65	American Forces Radio and TV Service	A		4,524		4,240			4,240	U
66	Strategic Platform Support Equip	A		7,308		17,440			17,440	U
Training Equipment										
67	Other Training Equipment	A		42,810		41,314			41,314	U
Aviation Electronic Equipment										
68	Matcals	A		19,779		10,011			10,011	U
69	Ashore ATC Equipment	A								U
70	Afloat ATC Equipment	A								U
71	Shipboard Air Traffic Control	B		9,366		9,346			9,346	U
72	Automatic Carrier Landing System	A		21,357		21,281			21,281	U
73	National Air Space System	B		26,639		25,621			25,621	U
74	Fleet Air Traffic Control Systems	A		9,672		8,249			8,249	U
75	Landing Systems	A		9,602		14,715			14,715	U
76	ID Systems	A		28,085		29,676			29,676	U
77	Naval Mission Planning Systems	A		13,950		13,737			13,737	U
Other Shore Electronic Equipment										
78	Deployable Joint Command & Control	A		1,205		1,314			1,314	U
79	Maritime Integrated Broadcast System			3,447						U
80	Tactical/Mobile C4I Systems	A		16,766		13,600			13,600	U

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Department of the Navy
 FY 2017 President's Budget
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 Total Obligational Authority
 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c -
		Ident Code	Quantity	Cost	Quantity	Cost	Quantity	
----	-----	----	-----	----	-----	-----	----	
63	Shallow Water MCM	B		8,875			8,875	U
64	Navstar GPS Receivers (SPACE)	A		12,752			12,752	U
65	American Forces Radio and TV Service	A		4,577			4,577	U
66	Strategic Platform Support Equip	A		8,972			8,972	U
 Training Equipment								
67	Other Training Equipment	A						U
 Aviation Electronic Equipment								
68	Matcals	A						U
69	Ashore ATC Equipment	A		75,068			75,068	U
70	Afloat ATC Equipment	A		33,484			33,484	U
71	Shipboard Air Traffic Control	B						U
72	Automatic Carrier Landing System	A						U
73	National Air Space System	B						U
74	Fleet Air Traffic Control Systems	A						U
75	Landing Systems	A						U
76	ID Systems	A		22,177			22,177	U
77	Naval Mission Planning Systems	A		14,273			14,273	U
 Other Shore Electronic Equipment								
78	Deployable Joint Command & Control	A						U
79	Maritime Integrated Broadcast System							U
80	Tactical/Mobile C4I Systems	A		27,927			27,927	U

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Department of the Navy
 FY 2017 President's Budget
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 (Dollars in Thousands)

14 Jan 2016

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	FY 2015			FY 2016			FY 2016			FY 2016			S e c
		Ident Code	(Base & OCO) Quantity	Cost	Base Quantity	Enacted Cost	OCO Quantity	Enacted Cost	Total Quantity	Enacted Cost	S e c			
81	DCGS-N	A	23,649		31,809				31,809		U			
82	CANES		355,046		275,641				275,641		U			
83	RADIAC	A	5,153		8,294				8,294		U			
84	CANES-Intell		61,215		28,695				28,695		U			
85	GPETE	A	6,284		6,962				6,962		U			
86	MASF				290				290		U			
87	Integ Combat System Test Facility	A	4,016		14,419				14,419		U			
88	EMI Control Instrumentation	A	4,113		4,175				4,175		U			
89	Items Less Than \$5 Million	A	64,235		66,176				66,176		U			
Shipboard Communications														
90	Shipboard Tactical Communications	A	14,410		8,722				8,722		U			
91	Ship Communications Automation	A	20,830		108,477				108,477		U			
92	Communications Items Under \$5M	A	14,145		16,613				16,613		U			
Submarine Communications														
93	Submarine Broadcast Support	A	11,057		16,021				16,021		U			
94	Submarine Communication Equipment	A	64,954		60,945				60,945		U			
Satellite Communications														
95	Satellite Communications Systems	A	13,743		30,892				30,892		U			
96	Navy Multiband Terminal (NMT)		233,162		118,113				118,113		U			
Shore Communications														
97	JCS Communications Equipment	A	4,369		4,591				4,591		U			

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Line No	Item Nomenclature	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c -
		Ident Code	Quantity	Cost	Quantity	Cost	Quantity	
-----	-----	-----	-----	-----	-----	-----	-----	
81	DCGS-N	A	12,676		12,000		24,676	U
82	CANES			212,030			212,030	U
83	RADIAC	A		8,092			8,092	U
84	CANES-Intell			36,013			36,013	U
85	GPETE	A		6,428			6,428	U
86	MASF							U
87	Integ Combat System Test Facility	A		8,376			8,376	U
88	EMI Control Instrumentation	A		3,971			3,971	U
89	Items Less Than \$5 Million	A		58,721			58,721	U
Shipboard Communications								
90	Shipboard Tactical Communications	A		17,366			17,366	U
91	Ship Communications Automation	A		102,479			102,479	U
92	Communications Items Under \$5M	A		10,403			10,403	U
Submarine Communications								
93	Submarine Broadcast Support	A		34,151			34,151	U
94	Submarine Communication Equipment	A		64,529			64,529	U
Satellite Communications								
95	Satellite Communications Systems	A		14,414			14,414	U
96	Navy Multiband Terminal (NMT)			38,365			38,365	U
Shore Communications								
97	JCS Communications Equipment	A		4,156			4,156	U

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Line No	Item Nomenclature	FY 2015		FY 2016		FY 2016		FY 2016		S e c
		Ident Code	(Base & OCO) Quantity	Base Cost	Enacted Quantity	Cost	OCO Enacted Quantity	Cost	Total Enacted Quantity	
98	Electrical Power Systems	A		1,402			1,403			1,403 U
Cryptographic Equipment										
99	Info Systems Security Program (ISSP)	A		101,110			135,687			135,687 U
100	MIO Intel Exploitation Team	A		979			970			970 U
Cryptologic Equipment										
101	Cryptologic Communications Equip	A		11,502			11,433			11,433 U
Other Electronic Support										
102	Coast Guard Equipment	A		2,967			2,529			2,529 U
Total Communications & Electronics Equip										
				2,229,171			2,354,322			2,354,322
Budget Activity 03: Aviation Support Equipment										
Sonobuoys										
103	Sonobuoys - All Types	A		182,890			168,763			168,763 U
Aircraft Support Equipment										
104	Weapons Range Support Equipment	A		47,944			46,979			46,979 U
105	Aircraft Support Equipment	A		55,195			123,884			123,884 U
106	Meteorological Equipment	A		12,825			15,090			15,090 U
107	DCRS/DPL	A		1,415			638			638 U
108	Airborne Mine Countermeasures	A		23,152			14,098			14,098 U
109	Aviation Support Equipment	A		47,105			49,773			49,773 U
Total Aviation Support Equipment										
				370,526			419,225			419,225

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		Ident Code	Base Quantity	Cost	OCO Quantity	Cost	Total Quantity	Cost	S e c -	
-----	-----	-----	-----	-----	-----	-----	-----	-----		
98	Electrical Power Systems	A						U		
Cryptographic Equipment										
99	Info Systems Security Program (ISSP)	A		85,694			85,694	U		
100	MIO Intel Exploitation Team	A		920			920	U		
Cryptologic Equipment										
101	Cryptologic Communications Equip	A		21,098			21,098	U		
Other Electronic Support										
102	Coast Guard Equipment	A		32,291			32,291	U		
Total Communications & Electronics Equip										
			2,122,908		12,000		2,134,908			
Budget Activity 03: Aviation Support Equipment										
Sonobuoys										
103	Sonobuoys - All Types	A		162,588			162,588	U		
Aircraft Support Equipment										
104	Weapons Range Support Equipment	A		58,116			58,116	U		
105	Aircraft Support Equipment	A		120,324			120,324	U		
106	Meteorological Equipment	A		29,253			29,253	U		
107	DCRS/DPL	A		632			632	U		
108	Airborne Mine Countermeasures	A		29,097			29,097	U		
109	Aviation Support Equipment	A		39,099			39,099	U		
Total Aviation Support Equipment										
			439,109				439,109			

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Line No	Item Nomenclature	FY 2015		FY 2016		FY 2016		FY 2016		S e c
		Ident Code	(Base & OCO) Quantity	Base Quantity	Enacted Cost	OCO Enacted Quantity	Total Enacted Cost			
Budget Activity 04: Ordnance Support Equipment										
Ship Gun System Equipment										
110	Ship Gun Systems Equipment	A	5,572	5,300			5,300	U		
Ship Missile Systems Equipment										
111	Ship Missile Support Equipment	A	143,570	276,503			276,503	U		
112	Tomahawk Support Equipment	A	60,062	71,245			71,245	U		
FBM Support Equipment										
113	Strategic Missile Systems Equip	A	209,583	240,694			240,694	U		
ASW Support Equipment										
114	SSN Combat Control Systems	A	60,767	96,040			96,040	U		
115	ASW Support Equipment	A	7,559	30,189			30,189	U		
Other Ordnance Support Equipment										
116	Explosive Ordnance Disposal Equip	B	124,549	22,623			22,623	U		
117	Items Less Than \$5 Million	A	10,759	9,906			9,906	U		
Other Expendable Ordnance										
118	Submarine Training Device Mods	A						U		
119	Training Device Mods	A	70,672	99,707			99,707	U		
120	Surface Training Equipment	A						U		
Total Ordnance Support Equipment										
			693,093	852,207			852,207			

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		Ident Code	Base Quantity	Cost	OCO Quantity	Cost	Total Quantity	Cost	e c	
-----	-----	-----	-----	-----	-----	-----	-----	-		
Budget Activity 04: Ordnance Support Equipment										

Ship Gun System Equipment										
110	Ship Gun Systems Equipment	A		6,191			6,191	U		
Ship Missile Systems Equipment										
111	Ship Missile Support Equipment	A		320,446			320,446	U		
112	Tomahawk Support Equipment	A		71,046			71,046	U		
FBM Support Equipment										
113	Strategic Missile Systems Equip	A		215,138			215,138	U		
ASW Support Equipment										
114	SSN Combat Control Systems	A		130,715			130,715	U		
115	ASW Support Equipment	A		26,431			26,431	U		
Other Ordnance Support Equipment										
116	Explosive Ordnance Disposal Equip	B		11,821		99,329	111,150	U		
117	Items Less Than \$5 Million	A		6,243			6,243	U		
Other Expendable Ordnance										
118	Submarine Training Device Mods	A		48,020			48,020	U		
119	Training Device Mods	A						U		
120	Surface Training Equipment	A		97,514			97,514	U		
Total Ordnance Support Equipment										
				933,565		99,329	1,032,894			

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Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c			
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost				
Budget Activity 05: Civil Engineering Support Equip														
Civil Engineering Support Equipment														
121 Passenger Carrying Vehicles														
121	Passenger Carrying Vehicles	A	2,282		2,252		186		2,438	U				
122	General Purpose Trucks	A	547		2,191				2,191	U				
123	Construction & Maintenance Equip	A	7,256		2,164				2,164	U				
124	Fire Fighting Equipment	A	15,321		14,705				14,705	U				
125	Tactical Vehicles	B	766		2,497				2,497	U				
126	Amphibious Equipment	A	8,682		12,517				12,517	U				
127	Pollution Control Equipment	A	2,942		3,018				3,018	U				
128	Items Under \$5 Million	A	15,553		14,403				14,403	U				
129	Physical Security Vehicles	A	1,177		1,186				1,186	U				
Total Civil Engineering Support Equip			54,526		54,933		186		55,119					
Budget Activity 06: Supply Support Equipment														
Supply Support Equipment														
130 Materials Handling Equipment														
130	Materials Handling Equipment	A	11,387		18,805				18,805	U				
131	Supply Equipment	A								U				
132	Other Supply Support Equipment	A	6,674		10,469				10,469	U				
133	First Destination Transportation	A	5,724		5,720				5,720	U				
134	Special Purpose Supply Systems	A	69,098		211,714				211,714	U				
Total Supply Support Equipment			92,883		246,708				246,708					

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		Ident Code	Quantity	Cost	Quantity	Cost	Quantity	
		-----	-----	-----	-----	-----	-----	-

Budget Activity 05: Civil Engineering Support Equip

Civil Engineering Support Equipment

121 Passenger Carrying Vehicles	A	8,853		8,853	U
122 General Purpose Trucks	A	4,928		4,928	U
123 Construction & Maintenance Equip	A	18,527		18,527	U
124 Fire Fighting Equipment	A	13,569	630	14,199	U
125 Tactical Vehicles	B	14,917		14,917	U
126 Amphibious Equipment	A	7,676		7,676	U
127 Pollution Control Equipment	A	2,321		2,321	U
128 Items Under \$5 Million	A	12,459		12,459	U
129 Physical Security Vehicles	A	1,095		1,095	U
Total Civil Engineering Support Equip		84,345	630	84,975	

Budget Activity 06: Supply Support Equipment

Supply Support Equipment

130 Materials Handling Equipment	A			U	
131 Supply Equipment	A	16,023		16,023	U
132 Other Supply Support Equipment	A			U	
133 First Destination Transportation	A	5,115	25	5,140	U
134 Special Purpose Supply Systems	A	295,471		295,471	U
Total Supply Support Equipment		316,609	25	316,634	

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Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO)		FY 2016 Base Enacted		FY 2016 OCO Enacted		FY 2016 Total Enacted		S e c			
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost				
Budget Activity 07: Personnel & Command Support Equip														
Training Devices														
135 Training Support Equipment														
		A		22,871			7,468			7,468	U			
136 Training and Education Equipment														
		A									U			
Command Support Equipment														
137 Command Support Equipment														
		A		26,238			36,433			36,433	U			
138 Education Support Equipment														
		A		874			3,180			3,180	U			
139 Medical Support Equipment														
		A		2,108			4,790			4,790	U			
141 Naval MIP Support Equipment														
		A		3,573			4,608			4,608	U			
142 Operating Forces Support Equipment														
		A					5,655			5,655	U			
143 C4ISR Equipment														
		A		24,459			9,929			9,929	U			
144 Environmental Support Equipment														
		A		18,030			23,009			23,009	U			
145 Physical Security Equipment														
		A		82,132			88,453			88,453	U			
146 Enterprise Information Technology														
		A		87,214			99,094			99,094	U			
Other														
149 Cancelled Account Adjustments														
		A		74							U			
150 Next Generation Enterprise Service														
		A		106,165			99,014			99,014	U			
999 Classified Programs														
				13,247			21,439		12,000		33,439 U			
Total Personnel & Command Support Equip														
				386,985			403,072			415,072				

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Line No	Item Nomenclature	Ident Code	FY 2017 Base		FY 2017 OCO		FY 2017 Total		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
-----	-----	-----	-----	-----	-----	-----	-----	-	
Budget Activity 07: Personnel & Command Support Equip									
Training Devices									
135	Training Support Equipment	A						U	
136	Training and Education Equipment	A		9,504			9,504	U	
Command Support Equipment									
137	Command Support Equipment	A	37,180		10,562		47,742	U	
138	Education Support Equipment	A						U	
139	Medical Support Equipment	A	4,128				4,128	U	
141	Naval MIP Support Equipment	A	1,925				1,925	U	
142	Operating Forces Support Equipment	A	4,777				4,777	U	
143	C4ISR Equipment	A	9,073				9,073	U	
144	Environmental Support Equipment	A	21,107				21,107	U	
145	Physical Security Equipment	A	100,906				100,906	U	
146	Enterprise Information Technology	A	67,544				67,544	U	
Other									
149	Cancelled Account Adjustments	A						U	
150	Next Generation Enterprise Service	A	98,216				98,216	U	
999	Classified Programs		9,915		1,660		11,575	U	
	Total Personnel & Command Support Equip		364,275		12,222		376,497		

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Line No	Item Nomenclature	FY 2015		FY 2016		FY 2016		FY 2016		S e c
		Ident Code	(Base & OCO) Quantity	Base Quantity	Enacted Cost	OCO Quantity	Enacted Cost	Total Quantity	Enacted Cost	
Budget Activity 08: Spares and Repair Parts										
Spares and Repair Parts										
151	Spares and Repair Parts	A	302,471	307,464	-----	-----	307,464	U		
Total Spares and Repair Parts										
			302,471	307,464	-----	-----	307,464			
Total Other Procurement, Navy										
			6,405,148	6,484,257	12,186	12,186	6,496,443			

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Line No	Item Nomenclature	FY 2017			FY 2017			FY 2017			S e c -
		Ident Code	Base Quantity	Cost	OCO Quantity	Cost	Total Quantity	Cost	c -		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
Budget Activity 08: Spares and Repair Parts											

Spares and Repair Parts											
151	Spares and Repair Parts	A	199,660			199,660	U				
			-----	-----	-----	-----					
	Total Spares and Repair Parts		199,660			199,660					
			-----	-----	-----	-----					
	Total Other Procurement, Navy		6,338,861		124,206	6,463,067					

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21	01	09	0950	Strategic Platform Support Equip.....	Volume 1 - 427
22	01	09	0955	Deep Subm Sys Proj (DSSP) Equip.....	Volume 1 - 443
23	01	09	0960	CG Modernization.....	Volume 1 - 449
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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 1: Sonobuoys										P-1 Line Item Number / Title: 4048 / Sonobuoys - All Types			
ID Code (A=Service Ready, B=Not Service Ready): A										Program Elements for Code B Items: N/A			
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A											
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	1,187.069	182.890	168.763	162.588	-	162.588	198.510	199.533	203.896	207.967	Continuing	Continuing	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	1,187.069	182.890	168.763	162.588	-	162.588	198.510	199.533	203.896	207.967	Continuing	Continuing	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	1,187.069	182.890	168.763	162.588	-	162.588	198.510	199.533	203.896	207.967	Continuing	Continuing	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>													
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-	
Description:													
Sonobuoys are air launched expendable, electro-mechanical sensors designed to relay underwater sounds associated with ships and submarines to remote processors. Sonobuoys by type are procured annually to maintain the OPNAV Naval Munitions Requirements Process (NMRP). The NMRP includes annual usage requirements for squadron training, readiness and current operations. Sonobuoys currently support the P-3, P-8 and H-60 platforms.													
[P5 / AN/SSQ-36 (BT) QZ001]: The AN/SSQ-36 Bathymeterograph (BT) is a bathymeterograph sonobuoy used to provide a vertical temperature profile of the ocean with respect to depth. The data is transmitted to aircraft to assist in the selection of hydrophone depths and tactics for localizing and tracking submarines and long-range forecasts of acoustic conditions in the ocean.													
[P5 / AN/SSQ-53 (DIFAR) QZ002]: The AN/SSQ-53 Directional Frequency Analysis and Recording (DIFAR) is a passive directional sonobuoy which provides acoustic target localization.													
[P5 / AN/SSQ-62 (DICASS) QZ004]: The AN/SSQ-62 Directional Command Active Sonobuoy System (DICASS) is a commandable, active acoustic directional sonobuoy that provides target bearing and range information.													
[P5 / AN/SSQ-101 (ADAR) QZ006]: The AN/SSQ-101 Air Deployable Active Receiver (ADAR) is a commandable passive acoustic sonobuoy with a horizontal planar array. It is part of the family of multi-static active sensor systems.													
[P5 / AN/SSQ-125 (Multistatic Coherent Source) QZ010]: The AN/SSQ-125 Multistatic Active Coherent (MAC) Source is a commandable coherent active search sensor. It is part of the family of multi-static active sensor systems.													
[P5 / SUS MK84 QZ012]: The MK84 Signal Underwater Sound (SUS) device is an expendable, non-explosive, electro-acoustic device which transmits acoustic tones. The MK84 SUS is used for training and exercise signaling to submarines.													

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy							Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 1: Sonobuoys				P-1 Line Item Number / Title: 4048 / Sonobuoys - All Types					
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		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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 / Sonobuoys, All Types	P-5a, P-21		- / 1,187.069	- / 182.890	- / 168.763	- / 162.588	- / -	- / 162.588
P-40	Total Gross/Weapon System Cost			- / 1,187.069	- / 182.890	- / 168.763	- / 162.588	- / -	- / 162.588

*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:

The FY 2017 funding request was reduced by \$6.9 million as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

The level of sonobuoy procurement funding enables several facets of the Navy's overall ASW mission readiness. This funding profile puts sonobuoy procurement on a trajectory to meet minimum inventory requirements for the entire family of air delivered acoustic sensors by the end of the FYDP. The Air ASW community is migrating from a primarily passive to a more capable Multi-static Active Coherent (MAC) wide area search Concept of Operations (CONOPS). While the transition to MAC requires the procurement of more sophisticated sonobuoys, the resulting wide area search capability is more efficient and effective. The MAC capability provides the foundational Air ASW acoustic search capability for the P-8 Poseidon and increasing the inventory of MAC sonobuoys is required to support the combatant commander's ASW mission execution requirements. This funding profile allows the Navy to prioritize and meet current operational forward presence requirements while maintaining fleet commander deployment readiness levels in the Anti-Submarine Warfare (ASW) mission area.

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 1				P-1 Line Item Number / Title: 4048 / Sonobuoys - All Types									Item Number / Title [DODIC]: 1 / Sonobuoys, All Types						
ID Code (A=Service Ready, B=Not Service Ready) :													MDAP/MAIS Code:						
Resource Summary				Prior Years			FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (<i>Units in Each</i>)				-			-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				1,187.069			182.890		168.763		162.588		-		162.588				
Less PY Advance Procurement (\$ in Millions)				-			-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				1,187.069			182.890		168.763		162.588		-		162.588				
Plus CY Advance Procurement (\$ in Millions)				-			-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				1,187.069			182.890		168.763		162.588		-		162.588				
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)	
Hardware - Sonobuoys (Common) Cost																			
Recurring Cost																			
1.1.1) AN/SSQ-36 (BT) QZ001 ^{(†)(1)}	621.44	11,211	6.967	648.68	2,395	1.554	650.81	3,090	2.011	688.05	2,369	1.630	-	-	-	688.05	2,369	1.630	
1.1.2) AN/SSQ-53 (DIFAR) QZ002 ^{(†)(2)}	745.20	313,410	233.554	796.24	59,178	47.120	912.13	111,949	102.112	956.00	77,027	73.638	-	-	-	956.00	77,027	73.638	
1.1.3) AN/SSQ-62 (DICASS) QZ004 ^{(†)(3)}	1,592.74	36,014	57.361	1,736.83	7,573	13.153	1,885.71	7,210	13.596	1,864.17	10,300	19.201	-	-	-	1,864.17	10,300	19.201	
<i>Subtotal: Recurring Cost</i>	-	-	297.882	-	-	61.827	-	-	117.719	-	-	94.469	-	-	-	-	-	94.469	
<i>Subtotal: Hardware - Sonobuoys (Common) Cost</i>	-	-	297.882	-	-	61.827	-	-	117.719	-	-	94.469	-	-	-	-	-	94.469	
Hardware - Sonobuoys (Multistatic) Cost																			
Recurring Cost																			
2.1.1) AN/SSQ-101 (ADAR) QZ006 ^{(†)(4)}	4,273.62	14,129	60.382	3,390.23	9,146	31.007	3,481.58	12,185	42.423	3,709.76	6,675	24.763	-	-	-	3,709.76	6,675	24.763	
2.1.2) AN/SSQ-125 (Multistatic Coherent Source) QZ010 ^{(†)(5)}	4,846.07	17,164	83.178	4,161.16	19,149	79.682	-	-	-	4,637.88	7,508	34.821	-	-	-	4,637.88	7,508	34.821	
<i>Subtotal: Recurring Cost</i>	-	-	143.560	-	-	110.689	-	-	42.423	-	-	59.584	-	-	-	-	-	59.584	
<i>Subtotal: Hardware - Sonobuoys (Multistatic) Cost</i>	-	-	143.560	-	-	110.689	-	-	42.423	-	-	59.584	-	-	-	-	-	59.584	
Hardware - Sonobuoys (Other) Cost																			
Recurring Cost																			

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 1				P-1 Line Item Number / Title: 4048 / Sonobuoys - All Types								Item Number / Title [DODIC]: 1 / Sonobuoys, All Types															
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)									
3.1.1) SUS MK84 QZ012 ^(†)	392.20	5,000	1.961	364.88	5,150	1.879	-	-	-	-	-	-	-	-	-	-	-	-									
<i>Subtotal: Recurring Cost</i>	-	-	1.961	-	-	1.879	-	-	-	-	-	-	-	-	-	-	-	-									
<i>Subtotal: Hardware - Sonobuoys (Other) Cost</i>	-	-	1.961	-	-	1.879	-	-	-	-	-	-	-	-	-	-	-	-									
Hardware - Acceptance Testing Cost																											
Recurring Cost																											
4.1.1) Common QZ860	-	-	12.074	-	-	1.746	-	-	1.764	-	-	1.782	-	-	-	-	-	1.782									
4.1.2) Multistatic QZ860	-	-	5.845	-	-	2.816	-	-	2.936	-	-	2.830	-	-	-	-	-	2.830									
4.1.3) Other QZ860	-	-	0.045	-	-	0.048	-	-	-	-	-	-	-	-	-	-	-	-									
<i>Subtotal: Recurring Cost</i>	-	-	17.964	-	-	4.610	-	-	4.700	-	-	4.612	-	-	-	-	-	4.612									
<i>Subtotal: Hardware - Acceptance Testing Cost</i>	-	-	17.964	-	-	4.610	-	-	4.700	-	-	4.612	-	-	-	-	-	4.612									
Hardware - Prior Years Cost																											
Non Recurring Cost																											
5.1.1) Prior Years	-	-	708.043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
<i>Subtotal: Non Recurring Cost</i>	-	-	708.043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
<i>Subtotal: Hardware - Prior Years Cost</i>	-	-	708.043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Support - Production Engineering Cost																											
6.1) Common QZ830	-	-	12.311	-	-	1.533	-	-	1.545	-	-	1.523	-	-	-	-	-	1.523									
6.2) Multistatic QZ830	-	-	5.311	-	-	2.310	-	-	2.376	-	-	2.400	-	-	-	-	-	2.400									
6.3) Other QZ830	-	-	0.037	-	-	0.042	-	-	-	-	-	-	-	-	-	-	-	-									
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	17.659	-	-	3.885	-	-	3.921	-	-	3.923	-	-	-	-	-	3.923									
Gross/Weapon System Cost	-	-	1,187.069	-	-	182.890	-	-	168.763	-	-	162.588	-	-	-	-	-	162.588									
Remarks:																											
[Hardware] Actual quantities between the various sonobuoy types may adjust for Fleet requirements based on the OPNAV Naval Munitions Requirements Process (NMRP). Hardware funds may be realigned to support necessary Engineering Investigations and production Engineering Change Proposals.																											
[Hardware] Sonobuoys under prior subheads are not included in Prior Years amount.																											
(†) indicates the presence of a P-5a																											

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 1	P-1 Line Item Number / Title: 4048 / Sonobuoys - All Types	Item Number / Title [DODIC]: 1 / Sonobuoys, All Types
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

Footnotes:

- (1) AN/SSQ-36 unit cost increase from FY16 to FY17 is due to a quantity decrease.
- (2) AN/SSQ-53 unit cost increase from FY15 to FY16 is due to the incorporation of High Altitude ASW (HAASW) capabilities. AN/SSQ-53 unit cost increase from FY16 to FY17 is due to a quantity decrease.
- (3) AN/SSQ-62 unit cost increase from FY15 to FY16 is due to the incorporation of High Altitude ASW (HAASW) capabilities.
- (4) AN/SSQ-101 unit cost increase from FY15 to FY16 is due to the incorporation of High Altitude ASW (HAASW) capabilities. AN/SSQ-101 unit cost increase from FY16 to FY17 is due to a quantity decrease.
- (5) AN/SSQ-125 unit cost increase from FY15 to FY17 is due to a quantity decrease. SONOBUOYS - ALL TYPES are procured annually to maintain the OPNAV Naval Munitions Requirements Process (NMRRP). AN/SSQ-125 quantity decrease to zero in FY16 is a result of buying to budget based on actual fleet usage, fleet forecasted usage, and best negotiated pricing.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 1			P-1 Line Item Number / Title: 4048 / Sonobuoys - All Types					Item Number / Title [DODIC]: 1 / Sonobuoys, All Types				
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
1.1.1) AN/SSQ-36 (BT) QZ001		2014	ERAPSCO / Columbia City IN	C / FFP	NAWCAD	Jul 2014	Jul 2015	4,500	660.89	Y		Apr 2013
1.1.1) AN/SSQ-36 (BT) QZ001		2015	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Dec 2014	Dec 2015	2,395	648.68	Y		Apr 2013
1.1.1) AN/SSQ-36 (BT) QZ001		2016	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Nov 2015	Nov 2016	3,090	650.81	Y		Apr 2013
1.1.1) AN/SSQ-36 (BT) QZ001		2017	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Nov 2016	Nov 2017	2,369	688.05	Y		Apr 2013
1.1.2) AN/SSQ-53 (DIFAR) QZ002 ^(†)		2014	ERAPSCO / Columbia City IN	C / FFP	NAWCAD	Jul 2014	Jul 2015	110,000	721.73	Y		Apr 2013
1.1.2) AN/SSQ-53 (DIFAR) QZ002 ^(†)		2015	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Mar 2015	Mar 2016	59,178	796.24	Y		Apr 2013
1.1.2) AN/SSQ-53 (DIFAR) QZ002 ^(†)		2016	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Feb 2016	Feb 2017	111,949	912.13	Y		Apr 2013
1.1.2) AN/SSQ-53 (DIFAR) QZ002 ^(†)		2017	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Nov 2016	Nov 2017	77,027	956.00	Y		Apr 2013
1.1.3) AN/SSQ-62 (DICASS) QZ004 ^(†)		2014	ERAPSCO / Columbia City IN	C / FFP	NAWCAD	Jul 2014	Jul 2015	10,000	1,610.80	Y		Apr 2013
1.1.3) AN/SSQ-62 (DICASS) QZ004 ^(†)		2015	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Mar 2015	Mar 2016	7,573	1,736.83	Y		Apr 2013
1.1.3) AN/SSQ-62 (DICASS) QZ004 ^(†)		2016	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Feb 2016	Feb 2017	7,210	1,885.71	Y		Apr 2013
1.1.3) AN/SSQ-62 (DICASS) QZ004 ^(†)		2017	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Nov 2016	Nov 2017	10,300	1,864.17	Y		Apr 2013
2.1.1) AN/SSQ-101 (ADAR) QZ006 ^(†)		2014	ERAPSCO / Columbia City IN	C / FFP	NAWCAD	Jul 2014	Jul 2015	8,043	3,418.87	Y		Apr 2013
2.1.1) AN/SSQ-101 (ADAR) QZ006 ^(†)		2015	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Apr 2015	Apr 2016	9,146	3,390.23	Y		Apr 2013
2.1.1) AN/SSQ-101 (ADAR) QZ006 ^(†)		2016	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Feb 2016	Feb 2017	12,185	3,481.58	Y		Apr 2013
2.1.1) AN/SSQ-101 (ADAR) QZ006 ^(†)		2017	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Nov 2016	Nov 2017	6,675	3,709.76	Y		Apr 2013
2.1.2) AN/SSQ-125 (Multistatic Coherent Source) QZ010 ^(†)		2014	ERAPSCO / Columbia City IN	C / FFP	NAWCAD	Jul 2014	Jul 2015	9,763	4,209.87	Y		Apr 2013
2.1.2) AN/SSQ-125 (Multistatic Coherent Source) QZ010 ^(†)		2015	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Dec 2014	Dec 2015	19,149	4,161.16	Y		Apr 2013
2.1.2) AN/SSQ-125 (Multistatic Coherent Source) QZ010 ^(†)		2017	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Nov 2016	Nov 2017	7,508	4,637.88	Y		Apr 2013
3.1.1) SUS MK84 QZ012		2014	ERAPSCO / Columbia City IN	C / FFP	NAWCAD	Jul 2014	Jul 2014	5,000	392.20	Y		Apr 2013

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 1			P-1 Line Item Number / Title: 4048 / Sonobuoys - All Types								Item Number / Title [DODIC]: 1 / Sonobuoys, All Types	
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
3.1.1) SUS MK84 QZ012		2015	ERAPSCO / Columbia City IN	C / FFP	NAVAIR	Dec 2014	Dec 2014	5,150	364.88	Y		Apr 2013

(t) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy																					Date: February 2016																		
Appropriation / Budget Activity / Budget Sub Activity:															P-1 Line Item Number / Title:																								
1810N / 03 / 1															4048 / Sonobuoys - All Types																								
Cost Elements (Units in Thousands)															Fiscal Year 2014																								
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	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	B A L A N C E									
1.1.2) AN/SSQ-53 (DIFAR) QZ002 ⁽²⁾															Fiscal Year 2015																								
Prior Years Deliveries: 203410																																							
1	2014	NAVY	110.000	-	110.000																										11.751	12.051	12.251	73.947					
1	2015	NAVY	59.178	-	59.178																													59.178					
1	2016	NAVY	111.949	-	111.949																													111.949					
1	2017	NAVY	77.027	-	77.027																													77.027					
1.1.3) AN/SSQ-62 (DICASS) QZ004 ⁽³⁾																																							
Prior Years Deliveries: 26014																																							
2	2014	NAVY	10.000	-	10.000																													1.067	1.067	1.067	6.799		
2	2015	NAVY	7.573	-	7.573																														7.573				
2	2016	NAVY	7.210	-	7.210																														7.210				
2	2017	NAVY	10.300	-	10.300																														10.300				
2.1.1) AN/SSQ-101 (ADAR) QZ006 ⁽⁴⁾																																							
Prior Years Deliveries: 6086																																							
3	2014	NAVY	8.043	-	8.043																													.859	.859	.859	5.466		
3	2015	NAVY	9.146	-	9.146																														9.146				
3	2016	NAVY	12.185	-	12.185																														12.185				
3	2017	NAVY	6.675	-	6.675																														6.675				
2.1.2) AN/SSQ-125 (Multistatic Coherent Source) QZ010 ⁽⁵⁾																																							
Prior Years Deliveries: 7401																																							
4	2014	NAVY	9.763	-	9.763																														1.064	1.064	1.064	6.571	
4	2015	NAVY	19.149	-	19.149																															19.149			
4	2017	NAVY	7.508	-	7.508																															7.508			
															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 2017 Navy																				Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 1																				Item Number / Title [DODIC]: 1 / Sonobuoys, All Types													
Cost Elements (Units in Thousands)										Fiscal Year 2016										Fiscal Year 2017													
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	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				
B A L A N C E																																	
1.1.2) AN/SSQ-53 (DIFAR) QZ002 ⁽²⁾																																	
Prior Years Deliveries: 203410																																	
1	2014	NAVY	110.000	36.053	73.947	12.751	12.751	12.751	12.051	11.951	11.692																			-			
1	2015	NAVY	59.178	-	59.178	-	-	-	-	-	6.000	6.500	6.500	7.000	7.000	7.000	6.500	6.500	6.178										-				
1	2016	NAVY	111.949	-	111.949				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.000	12.500	12.500	12.500	12.500	12.449				
1	2017	NAVY	77.027	-	77.027															A -	-	-	-	-	-	-	-	-	77.027				
1.1.3) AN/SSQ-62 (DICASS) QZ004 ⁽³⁾																																	
Prior Years Deliveries: 26014																																	
2	2014	NAVY	10.000	3.201	6.799	1.167	1.167	1.167	1.167	1.067	1.064																		-				
2	2015	NAVY	7.573	-	7.573	-	-	-	-	-	.825	.825	.850	.850	.850	.850	.850	.850	.823										-				
2	2016	NAVY	7.210	-	7.210				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	.750	.800	.850	.850	.850	.760					
2	2017	NAVY	10.300	-	10.300															A -	-	-	-	-	-	-	-	-	10.300				
2.1.1) AN/SSQ-101 (ADAR) QZ006 ⁽⁴⁾																																	
Prior Years Deliveries: 6086																																	
3	2014	NAVY	8.043	2.577	5.466	.959	.959	.959	.870	.870	.849																		-				
3	2015	NAVY	9.146	-	9.146	-	-	-	-	-	.900	1.000	1.000	1.100	1.100	1.100	1.000	1.000	.946									-					
3	2016	NAVY	12.185	-	12.185				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	1.100	1.200	1.500	1.500	1.500	1.185					
3	2017	NAVY	6.675	-	6.675															A -	-	-	-	-	-	-	-	-	6.675				
2.1.2) AN/SSQ-125 (Multistatic Coherent Source) QZ010 ⁽⁵⁾																																	
Prior Years Deliveries: 7401																																	
4	2014	NAVY	9.763	3.192	6.571	1.164	1.164	1.064	1.064	1.064	1.051																		-				
4	2015	NAVY	19.149	-	19.149	-	-	2.000	2.100	2.200	2.200	2.200	2.200	2.200	2.100	2.100	2.049										-						
4	2017	NAVY	7.508	-	7.508						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.508					
										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 2017 Navy																				Date: February 2016																																																																																																																																																																																																																																																																																																																																																											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 1																				Item Number / Title [DODIC]: 1 / Sonobuoys, All Types																																																																																																																																																																																																																																																																																																																																																											
Cost Elements (Units in Thousands)																				Fiscal Year 2018																																																																																																																																																																																																																																																																																																																																																											
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1.1.2) AN/SSQ-53 (DIFAR) QZ002 ⁽²⁾																																																																																																																																																																																																																																																																																																																																																																															
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1.1.3) AN/SSQ-62 (DICASS) QZ004 ⁽³⁾																																																																																																																																																																																																																																																																																																																																																																															
Prior Years Deliveries: 26014																																																																																																																																																																																																																																																																																																																																																																															
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2	2015	NAVY	7.573	7.573	-																																																																																																																																																																																																																																																																																																																																																																										
2	2016	NAVY	7.210	6.460	.750	.750																																																																																																																																																																																																																																																																																																																																																																									
2	2017	NAVY	10.300	-	10.300	-	1.000	1.000	1.300	1.300	1.300	1.300	1.100	1.000	1.000																																																																																																																																																																																																																																																																																																																																																																
2.1.1) AN/SSQ-101 (ADAR) QZ006 ⁽⁴⁾																																																																																																																																																																																																																																																																																																																																																																															
Prior Years Deliveries: 6086																																																																																																																																																																																																																																																																																																																																																																															
3	2014	NAVY	8.043	8.043	-																																																																																																																																																																																																																																																																																																																																																																										
3	2015	NAVY	9.146	9.146	-																																																																																																																																																																																																																																																																																																																																																																										
3	2016	NAVY	12.185	11.000	1.185	1.185																																																																																																																																																																																																																																																																																																																																																																									
3	2017	NAVY	6.675	-	6.675	-	.740	.740	.740	.745	.745	.745	.740	.740	.740																																																																																																																																																																																																																																																																																																																																																																
2.1.2) AN/SSQ-125 (Multistatic Coherent Source) QZ010 ⁽⁵⁾																																																																																																																																																																																																																																																																																																																																																																															
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4	2014	NAVY	9.763	9.763	-																																																																																																																																																																																																																																																																																																																																																																										
4	2015	NAVY	19.149	19.149	-																																																																																																																																																																																																																																																																																																																																																																										
4	2017	NAVY	7.508	-	7.508	-	.800	.800	.800	.900	.900	.900	.808	.800	.800																																																																																																																																																																																																																																																																																																																																																																
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4	2017	NAVY	7.508	-	7.508	-	.800	.800	.800	.900	.900	.900	.808	.800	.800																																																																																																																																																																																																																																																																																																																																																																
<table border="1"> <thead> <tr> <th>O C R O #</th> <th>M F R Y</th> <th>Service</th> <th>Proc Qty</th> <th>Accept Prior To 1 Oct 2017</th> <th>Bal Due As Of 1 Oct</th> <th>O C T</th> <th>N O V</th> <th>D E C</th> <th>J A N</th> <th>F E B</th> <th>M A R</th> <th>A P R</th> <th>M A Y</th> <th>J U N</th> <th>J U L</th> <th>A U G</th> <th>S E P</th> <th>O C T</th> <th>N O V</th> <th>D E C</th> <th>J A N</th> <th>F E B</th> <th>M A R</th> <th>A P R</th> <th>M A Y</th> <th>J U N</th> <th>J U L</th> <th>A U G</th> <th>S E P</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2014</td> <td>NAVY</td> <td>110.000</td> <td>110.000</td> <td>-</td> <td></td> </tr> <tr> <td>1</td> <td>2015</td> <td>NAVY</td> <td>59.178</td> <td>59.178</td> <td>-</td> <td></td> </tr> <tr> <td>1</td> <td>2016</td> <td>NAVY</td> <td>111.949</td> <td>99.500</td> <td>12.449</td> <td>12.449</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>2017</td> <td>NAVY</td> <td>77.027</td> <td>-</td> <td</tr></tbody></table>	O C R O #	M F R Y	Service	Proc Qty	Accept Prior To 1 Oct 2017	Bal Due As Of 1 Oct	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	2014	NAVY	110.000	110.000	-																			1	2015	NAVY	59.178	59.178	-												1	2016	NAVY	111.949	99.500	12.449	12.449									1	2017	NAVY	77.027	-																																																																																																																																																																																																																																																																																				
O C R O #	M F R Y	Service	Proc Qty	Accept Prior To 1 Oct 2017	Bal Due As Of 1 Oct	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 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 1				P-1 Line Item Number / Title: 4048 / Sonobuoys - All Types					Item Number / Title [DODIC]: 1 / Sonobuoys, All Types			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	ERAPSCO - Columbia City IN	45,000	62,000	135,000	24	3	12	15	-	-	-	-
2	ERAPSCO - Columbia City IN	10,000	26,000	67,000	24	1	12	13	-	-	-	-
3	ERAPSCO - Columbia City IN	2,000	8,000	12,500	24	5	12	17	-	-	-	-
4	ERAPSCO - Columbia City IN	2,000	7,000	19,500	24	2	12	14	-	-	-	-

"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 2017 Navy										Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity:					P-1 Line Item Number / Title:											
1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment					4204 / Weapons Range 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		Item MDAP/MAIS Code(s): N/A														
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total				
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-				
Gross/Weapon System Cost (\$ in Millions)	491.449	47.944	46.979	58.116	-	58.116	50.347	65.624	49.529	59.118	Continuing	Continuing				
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-				
Net Procurement (P-1) (\$ in Millions)	491.449	47.944	46.979	58.116	-	58.116	50.347	65.624	49.529	59.118	Continuing	Continuing				
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-				
Total Obligation Authority (\$ in Millions)	491.449	47.944	46.979	58.116	-	58.116	50.347	65.624	49.529	59.118	Continuing	Continuing				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																
Initial Spares (\$ in Millions)	-	3.596	3.423	3.000	-	3.000	3.328	3.232	3.452	3.523	Continuing	Continuing				
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-				
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-				
Description:																
This budget line item provides the resources to implement the Navy Fleet Training Range (FTR) Instrumentation Program Plan. These FTRs provide the primary means of fleet combat readiness training. The plan addresses the following major procurement areas: Electronic Warfare (EW) simulators, Systems Replacement and Modernization (SRAM), and generic systems such as range computer systems, simulation, surveillance systems, Moving Land Targets (MLT), Tactical Combat Training System (TCTS), Undersea Warfare Training Range/ Pacific Fleet Portable ASW Range, and range infrastructure necessary to enable Live Virtual Constructive (LVC) training capability. The integral parts of these major range programs include but are not limited to the following: voice communications, weapons scoring systems, display consoles, radars, tracking subsystems, control/ computation subsystems, display/ debriefing subsystems, processors, HF/ VHF/ UHF receivers, transmitters/ transceivers, multiplexers, intercom circuits, encoding devices, frequency interface control systems, and other specialized equipment.																
[P5 / SC004 SRAM - Systems Replacement and Modernization]: The SRAM program provides for the procurement of numerous non-recurring range equipment replacement and modernization efforts that are needed at all Navy training ranges. SRAM procurements replace and modernize economically unmaintainable systems and equipment in order to increase range efficiency. Funding for installation of minor equipment is required in all years for all ranges. Some procurements include antenna replacement, datalink replacement, electrical generators, and range safety lighting equipment.																
[P5 / SC012 OS - Ocean Systems]: Funds the procurement and upgrade of fixed and portable underwater training ranges. The underwater ranges are used to provide individual and unit level training for basic antisubmarine warfare (ASW) skills. Large exercises such as Composite Training Unit Exercises (COMTUEX), Fleet Exercises (FLEETEX), and Joint Task Force Exercises (JTFX) are conducted in the vicinity of the fixed underwater training ranges. The Portable Underwater Training Range (PUTR) will support ASW training for Forward Deployed Naval Forces (FDNF) in the Pacific. Efforts on the previous PUTR system were completed in FY10. Items procured under this cost element include hydrophones, undersea cable, and shore system electronics. The Undersea Warfare Training Range (USWTR) will provide realistic shallow water ASW training against the diesel submarine threat. USWTR will provide approximately 500 nmi ² of operational range area on each coast. In 2010, the Navy reprioritized the USWTR program, with the East Coast range to be procured before the West Coast range. Per Congressional direction, East Coast USWTR has been broken out separately under cost code SC161. West Coast USWTR is planned for procurement under this cost code outside the current FYDP.																
[P5 / SC161 OS - East Coast USWTR]: The purpose of the East Coast USWTR is to establish a shallow-water training range capability on the East Coast. The primary USWTR mission will be to support Fleet readiness through training and tactical development of submarine, surface ship, and aircraft undersea warfare (USW), surface warfare (SUW), and mine warfare (MIW). Secondary missions will include training in shallow water, regional conflict operations involving the naval special warfare (NSW), electronic warfare (EW), and amphibious warfare (AMW) mission/ operational capability areas. Additionally, joint mission areas that may be supported include joint littoral warfare and joint surveillance and warning. Previously subsumed within Ocean Systems, East Coast USWTR has been broken out separately in accordance																

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment	P-1 Line Item Number / Title: 4204 / Weapons Range 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	Item MDAP/MAIS Code(s): N/A	
with the FY 2007 Defense Appropriations Act. Items procured under this cost element include hydrophones, undersea cable, and shore system electronics for East Coast USWTR. End result is a single in-water training range.		
[P5 / SC034 LATR Shipboard Rotary Technology Upgrade]: The Large Area Tracking Range (LATR) Shipboard and Rotary Wing Technology Upgrade (LSRTU) will replace obsolete components in the legacy shipboard and rotary wing tracking instrumentation and will deliver enhanced Beyond Line of Sight (BLOS) tracking capability for Large Force Exercise support.		
[P5 / SC039 TCTS - Transportable Ground Subsystem]: The Tactical Combat Training System (TCTS) will procure fixed range instrumentation equipment for both shore-based (aircrew training) and deployable (ship/sub/aircrew training) applications. TCTS instrumentation will transmit exercise scenarios; simulate/stimulate all exercise participants sensors/weapons with the exercise scenario; track all exercise participants and events, e.g., weapons engagements; and provide accurate, realistic, and timely feedback. TCTS is building on technology developed for existing tactical training range systems. TCTS consists of airborne instrumentation called Participant Subsystems and Ground Subsystems. Increment 1 systems have been procured and fielded. Future procurements will be for Increment 2 systems with encrypted communication capability.		
[P5 / SC138 TCTS - Portable Ground Subsystem]: The Tactical Combat Training System (TCTS) will procure portable range instrumentation equipment for both shore-based (aircrew training) and deployable (ship/sub/aircrew training) applications. TCTS instrumentation will transmit exercise scenarios; simulate/stimulate all exercise participants sensors/weapons with the exercise scenario; track all exercise participants and events, e.g., weapons engagements; and provide accurate, realistic, and timely feedback. TCTS is building on technology developed for existing tactical training range systems. TCTS consists of airborne instrumentation called Participant Subsystems and Ground Subsystems. Increment 1 systems have been procured and fielded. Future procurements will be for Increment 2 systems with encrypted communication capability.		
[P5 / SC140 TCTS - Remote Range Unit]: The Tactical Combat Training System (TCTS) will procure fixed, transportable, and mobile range instrumentation equipment for both shore-based (aircrew training) and deployable (ship/sub/aircrew training) applications. TCTS instrumentation will transmit exercise scenarios; simulate/stimulate all exercise participants sensors/weapons with the exercise scenario; track all exercise participants and events, e.g., weapons engagements; and provide accurate, realistic, and timely feedback. TCTS is building on technology developed for existing tactical training range systems. TCTS consists of airborne instrumentation called Participant Subsystems and Ground Subsystems. Increment 1 systems have been procured and fielded. Future procurements will be for Increment 2 systems with encrypted communication capability.		
[P5 / SC105 EW - Threat Presentation]: Threat Presentation includes all the necessary components and elements associated with presenting friendly training event participants with an opposing force (OPFOR) operating environment that replicates the expected enemy order of battle. The capability of a range to recreate any Electronic Combat electronic order of battle requires a range to simulate or emulate basic elements of Electronic Combat such as search, acquisition and tracking radars, anti-aircraft artillery (AAA) systems, surface-to-air missile (SAM) systems, infrared (IR) systems, jammers, coastal threats, airborne simulators, and information warfare/ command and control systems. Individual pieces procured vary from year to year.		
[P5 / SC151 MLT - Moving Land Targets]: The Moving Land Target (MLT) will provide Naval Forces with a fast and highly maneuverable surrogate for the threat vehicles currently encountered in combat operations. The MLT will operate primarily on unpaved roads, support Close Air Support (CAS) and Time-Sensitive Targeting (TST) training, and enable Joint Terminal Air Controllers (JTACs) and aircrews to identify and engage moving targets not normally associated with traditional enemy forces. This line was previously titled FRP Targets.		
[P5 / SC711 Fallon LVC]: Funds Fallon Range Phase II/Live Virtual Constructive (LVC) allowing real-time telemetry to be received from new aircraft reaching the fleet. Establish persistent integrated training between AEGIS, CVW, Maritime & UAS training assets by enabling LVC capability with live F/A-18 E/F aircraft on the Fallon Range. Effort will modify Fallon Range infrastructure to provide secure network connectivity to provide robust integrated training capability.		
[P5 / SC158 - TCTS Block Upgrade]: The Tactical Combat Training System (TCTS) will procure fixed range instrumentation equipment for both shore-based (aircrew training) and deployable (ship/sub/aircrew training) applications. TCTS instrumentation will transmit exercise scenarios; simulate/stimulate all exercise participants sensors/weapons with the exercise scenario; track all exercise participants and events, e.g., weapons engagements; and provide accurate, realistic, and timely feedback. TCTS is building on technology developed for existing tactical training range systems. TCTS consists of airborne instrumentation called Participant Subsystems and Ground Subsystems. Increment 1 systems have been procured and fielded. Annual block upgrade software packages will be released to fielded Increment 1 systems to correct system deficiencies. These block upgrades were previously budgeted under SC920, TCTS Non-Recurring.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy							Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment				P-1 Line Item Number / Title: 4204 / Weapons Range Support Equipment					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A					
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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 / Weapons Range Support Equipment	P-5a		- / 491.449	- / 47.944	- / 46.979	- / 58.116	- / -	- / 58.116
P-40	Total Gross/Weapon System Cost			- / 491.449	- / 47.944	- / 46.979	- / 58.116	- / -	- / 58.116

*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:

Funding is required in FY2017 for Operational forces of the Navy's air, surface, and subsurface units, which are required to be equipped with the latest complex and sophisticated weapon systems to achieve and maintain high standards of fleet readiness. The FTRs must be furnished with training equipment capable of simulating, tracking, displaying, and debriefing the latest combat environments (e.g. electronic warfare). This equipment provides the Navy with the capability to conduct safe fleet training exercises, achieve a high state of readiness, objectively evaluate training effectiveness as well as the strategy and tactics employed, evaluate the performance of equipment, and measure reliability and accuracy of operational systems.

FY2017 total funding increases from FY2016 due to the requirement to field infrastructure to enable LVC training capability at NAS Fallon.

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4204 / Weapons Range Support Equipment										Item Number / Title [DODIC]: 1 / Weapons Range Support Equipment					
ID Code (A=Service Ready, B=Not Service Ready) :													MDAP/MAIS Code:					
Resource Summary				Prior Years			FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Procurement Quantity (<i>Units in Each</i>)				-			-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				491.449			47.944		46.979		58.116		-		58.116			
Less PY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				491.449			47.944		46.979		58.116		-		58.116			
Plus CY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				491.449			47.944		46.979		58.116		-		58.116			
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-			3.596		3.423		3.000		-		3.000			
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Hardware - Systems Replacement and Modernization Cost																		
Recurring Cost																		
1.1.1) SC004 SRAM - Systems Replacement and Modernization	-	-	141.704	-	-	9.287	-	-	9.554	-	-	9.772	-	-	-	-	-	9.772
<i>Subtotal: Recurring Cost</i>	-	-	141.704	-	-	9.287	-	-	9.554	-	-	9.772	-	-	-	-	-	9.772
<i>Subtotal: Hardware - Systems Replacement and Modernization Cost</i>	-	-	141.704	-	-	9.287	-	-	9.554	-	-	9.772	-	-	-	-	-	9.772
Hardware - Ocean Systems Cost																		
Recurring Cost																		
2.1.1) SC012 OS - Ocean Systems (1)	-	-	63.370	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
2.1.2) SC161 OS - East Coast USWTR	-	-	75.857	-	-	16.227	-	-	15.554	-	-	13.302	-	-	-	-	-	13.302
<i>Subtotal: Recurring Cost</i>	-	-	139.227	-	-	16.227	-	-	15.554	-	-	13.802	-	-	-	-	-	13.802
<i>Subtotal: Hardware - Ocean Systems Cost</i>	-	-	139.227	-	-	16.227	-	-	15.554	-	-	13.802	-	-	-	-	-	13.802
Hardware - Large Area Tracking Range Cost																		
Recurring Cost																		
3.1.1) SC034 LATR Shipboard Rotary Technology Upgrade (2)	-	-	-	-	-	-	-	-	2.943	-	-	0.245	-	-	-	-	-	0.245
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	2.943	-	-	0.245	-	-	-	-	-	0.245

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4204 / Weapons Range Support Equipment									Item Number / Title [DODIC]: 1 / Weapons Range Support 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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total										
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)								
Subtotal: Hardware - Large Area Tracking Range Cost	-	-	-	-	-	-	-	-	2.943	-	-	0.245	-	-	-	-	-	0.245								
Hardware - Tactical Combat Training System Cost																										
Recurring Cost																										
4.1.1) SC039 TCTS - Transportable Ground Subsystem	-	-	0.761	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
4.1.3) SC140 TCTS - Remote Range Unit	-	-	0.145	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Subtotal: Recurring Cost	-	-	0.906	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Subtotal: Hardware - Tactical Combat Training System Cost	-	-	0.906	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Hardware - Electronic Warfare Training Equipment Cost																										
Recurring Cost																										
5.1.1) SC105 EW - Threat Presentation	-	-	62.667	-	-	6.596	-	-	9.598	-	-	8.371	-	-	-	-	-	8.371								
Subtotal: Recurring Cost	-	-	62.667	-	-	6.596	-	-	9.598	-	-	8.371	-	-	-	-	-	8.371								
Subtotal: Hardware - Electronic Warfare Training Equipment Cost	-	-	62.667	-	-	6.596	-	-	9.598	-	-	8.371	-	-	-	-	-	8.371								
Hardware - Moving Land Targets (PMA208) Cost																										
Recurring Cost																										
6.1.1) SC151 MLT - Moving Land Targets ^(†)	180,279.41	68	12.259	130,500.00	10	1.305	146,444.00	9	1.318	137,777.00	9	1.240	-	-	-	137,777.00	9	1.240								
Subtotal: Recurring Cost	-	-	12.259	-	-	1.305	-	-	1.318	-	-	1.240	-	-	-	-	-	1.240								
Subtotal: Hardware - Moving Land Targets (PMA208) Cost	-	-	12.259	-	-	1.305	-	-	1.318	-	-	1.240	-	-	-	-	-	1.240								
Hardware - Live-Virtual-Constructive Cost																										
Recurring Cost																										
7.1.1) SC711 Fallon LVC ⁽³⁾	-	-	-	-	-	-	-	-	-	-	-	-	10.520	-	-	-	-	10.520								
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	10.520	-	-	-	-	10.520								
Subtotal: Hardware - Live-Virtual-Constructive Cost	-	-	-	-	-	-	-	-	-	-	-	-	10.520	-	-	-	-	10.520								
Software - SC158 TCTS Block Upgrade Cost																										
Recurring Cost																										

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4204 / Weapons Range Support Equipment									Item Number / Title [DODIC]: 1 / Weapons Range Support 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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)											
8.1.1) SC158 - TCTS Block Upgrade	-	-	1.486	-	-	1.757	-	-	-	-	-	1.657	-	-	-	-	-	1.657											
<i>Subtotal: Recurring Cost</i>	-	-	1.486	-	-	1.757	-	-	-	-	-	1.657	-	-	-	-	-	1.657											
<i>Subtotal: Software - SC158 TCTS Block Upgrade Cost</i>	-	-	1.486	-	-	1.757	-	-	-	-	-	1.657	-	-	-	-	-	1.657											
Support - Integrated Logistics Cost																													
9.1) SC800 SRAM	-	-	1.425	-	-	0.290	-	-	0.300	-	-	0.304	-	-	-	-	-	0.304											
9.2) SC800 Ocean Systems ⁽⁴⁾	-	-	1.588	-	-	0.179	-	-	0.355	-	-	0.666	-	-	-	-	-	0.666											
9.3) SC800 TCTS	-	-	1.699	-	-	0.134	-	-	-	-	-	0.144	-	-	-	-	-	0.144											
9.4) SC800 EW	-	-	1.102	-	-	0.420	-	-	0.155	-	-	0.156	-	-	-	-	-	0.156											
9.5) SC800 Prior Years	-	-	9.317	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
9.6) SC800 Fallon LVC	-	-	-	-	-	-	-	-	-	-	-	0.080	-	-	-	-	-	0.080											
<i>Subtotal: Support - Integrated Logistics Cost</i>	-	-	15.131	-	-	1.023	-	-	0.810	-	-	1.350	-	-	-	-	-	1.350											
Support - Production Support Cost																													
10.1) SC820 Ocean Systems	-	-	3.767	-	-	0.512	-	-	1.082	-	-	1.761	-	-	-	-	-	1.761											
10.2) SC820 LATR	-	-	-	-	-	-	-	-	0.036	-	-	0.036	-	-	-	-	-	0.036											
10.3) SC820 TCTS	-	-	0.735	-	-	0.100	-	-	-	-	-	0.233	-	-	-	-	-	0.233											
10.4) SC820 EW	-	-	0.679	-	-	0.145	-	-	0.186	-	-	0.189	-	-	-	-	-	0.189											
10.5) SC820 Fallon LVC	-	-	-	-	-	-	-	-	-	-	-	0.538	-	-	-	-	-	0.538											
<i>Subtotal: Support - Production Support Cost</i>	-	-	5.181	-	-	0.757	-	-	1.304	-	-	2.757	-	-	-	-	-	2.757											
Support - Production Engineering Cost																													
11.1) SC831 SRAM	-	-	5.066	-	-	1.180	-	-	0.969	-	-	0.969	-	-	-	-	-	0.969											
11.2) SC831 Ocean Systems ⁽⁵⁾	-	-	16.565	-	-	3.480	-	-	3.012	-	-	2.449	-	-	-	-	-	2.449											
11.3) SC831 LATR	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-											
11.4) SC831 TCTS	-	-	13.949	-	-	1.826	-	-	-	-	-	1.997	-	-	-	-	-	1.997											
11.5) SC831 EW	-	-	12.281	-	-	3.659	-	-	0.856	-	-	0.824	-	-	-	-	-	0.824											
11.6) SC832 MLT	-	-	0.530	-	-	0.200	-	-	0.204	-	-	0.205	-	-	-	-	-	0.205											
11.7) SC831 Fallon LVC ⁽⁶⁾	-	-	-	-	-	-	-	-	-	-	-	1.072	-	-	-	-	-	1.072											
11.8) SC831 Prior Years	-	-	58.652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	107.043	-	-	10.345	-	-	5.091	-	-	7.516	-	-	-	-	-	7.516											

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4204 / Weapons Range Support Equipment									Item Number / Title [DODIC]: 1 / Weapons Range Support 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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 - Acceptance Testing Cost																										
12.1) SC860 SRAM	-	-	1.068	-	-	0.225	-	-	0.232	-	-	0.235	-	-	-	-	-	0.235								
12.2) SC860 Ocean Systems	-	-	1.034	-	-	0.422	-	-	0.491	-	-	0.300	-	-	-	-	-	0.300								
12.3) SC860 LATR	-	-	-	-	-	-	-	-	0.084	-	-	0.082	-	-	-	-	-	0.082								
12.5) SC860 EW	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
12.6) SC860 Prior Years	-	-	3.543	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
12.7) SC860 LVC Fallon	-	-	-	-	-	-	-	-	-	-	-	0.269	-	-	-	-	-	0.269								
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	5.845	-	-	0.647	-	-	0.807	-	-	0.886	-	-	-	-	-	0.886								
Gross/Weapon System Cost	-	-	491.449	-	-	47.944	-	-	46.979	-	-	58.116	-	-	-	-	-	58.116								

(†) indicates the presence of a P-5a

Footnotes:

- (1) Increase from PB16 reflects funds for upgrade of portable underwater training ranges as well as fixed ranges at Barking Sands, HI and San Clemente Island, CA. Upgrades include improved range accuracy and splash detection capabilities.
- (2) Procures various components for LATR Shipboard and Rotary Wing Technology Upgrade. The majority of the components will be procured in FY16, with remaining reduced procurements in FY17 per the approved acquisition plan.
- (3) SC711 Fallon LVC - Increase from PB16 in FY17 reflects NSAWC prioritization of range infrastructure improvements to support LVC capability.
- (4) SC800 Ocean Systems - The Undersea Warfare Training Range (USWTR) is an approved time phased procurement and associated government support efforts will vary from year to year in order to support a complex Integrated Master Schedule (IMS). Increased logistical efforts in FY17 include support of the validation of the Range Operation Center (ROC) interface between Jacksonville and Mayport Florida.
- (5) SC831 Ocean Systems - The Undersea Warfare Training Range (USWTR) is an approved time phased procurement and associated government support efforts will vary from year to year in order to support a complex Integrated Master Schedule (IMS).
- (6) SC831 Fallon LVC - FY17 funds engineering costs associated with procurement of ARS-1 Electronic Warfare radar equipment for the Air Defense Strike Group Facility at the Naval Strike Air Warfare Center (NSAWC), NAS Fallon.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4204 / Weapons Range Support Equipment					Item Number / Title [DODIC]: 1 / Weapons Range Support 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
6.1.1) SC151 MLT - Moving Land Targets		2014	Kairos / Sandy, UT	C / FFP	NAVAIR, Patuxent River, MD	Apr 2014	Aug 2014	14	129,142.86	Y		May 2010
6.1.1) SC151 MLT - Moving Land Targets		2015	Kairos / Sandy, UT	C / FFP	NAVAIR, Patuxent River, MD	Apr 2015	Aug 2015	10	130,500.00	Y		May 2010
6.1.1) SC151 MLT - Moving Land Targets		2016	TBD / TBD	C / FFP	NAVAIR, Patuxent River, MD	Apr 2016	Jun 2016	9	146,444.00	Y		Aug 2015
6.1.1) SC151 MLT - Moving Land Targets		2017	TBD / TBD	C / FFP	NAVAIR, Patuxent River, MD	Apr 2017	Jul 2017	9	137,777.00	Y		Aug 2015

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy										Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment					P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment										
ID Code (A=Service Ready, B=Not Service Ready): B			Program Elements for Code B Items: 0204112N					Other Related Program Elements: 0604512N							
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A													
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total			
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	0.000	55.195	123.884	120.324	-	120.324	122.313	124.721	130.847	127.045	Continuing	Continuing			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	0.000	55.195	123.884	120.324	-	120.324	122.313	124.721	130.847	127.045	Continuing	Continuing			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	0.000	55.195	123.884	120.324	-	120.324	122.313	124.721	130.847	127.045	Continuing	Continuing			
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>															
Initial Spares (\$ in Millions)	-	13.411	9.251	3.329	-	3.329	2.947	0.974	0.089	0.091	Continuing	Continuing			
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-			
Description:															
AVIATION SUPPORT EQUIPMENT provides funds for the procurement of air-launched anti-submarine (ASW) detection and other general support equipment associated with aircraft systems. Other support equipment includes ground electronics equipment, aircraft launch and recovery equipment, photographic equipment, reconnaissance and electronic warfare process.															
The items contained within this budget line item were previously funded under the following line items in FY14 and prior:															
4208 Expeditionary Airfields															
4214 Aircraft Rearming Equipment															
4216 Aircraft Launch and Recovery Equipment															
4255 LAMPS MK III Shipboard Equipment sing and analysis equipment, and miscellaneous other categories of equipment.															
[P5 / Expeditionary Airfields]: This program provides for procurement of aircraft recovery equipment, landing mat and accessories, airfield lighting and Visual Landing Aids for Naval Aviation Expeditionary Airfields (EAF.) EAF recovery equipment consists of the M31 arresting gear and its accessories. This equipment is used to stop aircraft in less than 1000 ft. EAF landing mats and accessories are used to construct airfields of varying configurations such as, 5000+ ft conventional airport runways and taxiways, Forward Arming and Refueling Points (FARPs), Forward Operating Bases (FOBs), Landing Zones (LZs) and Heli Pads. EAF Lighting equipment augments the many types of EAFs with lighting of the runways, taxiways, LZs, FARPs, FOBs and Heli pads. Much of the EAF Lighting utilizes Infra Red Lighting for use with Night Vision Devices for night operations by all Type/Model/Series aircraft. Fresnel Lens Optical Landing Systems and Precision Approach Path Indicator systems are used to guide aircraft to the proper landing or arresting gear area of the EAF. This core funding level directly supports the procurement and fielding of operational EAF systems for three Active Marine Aircraft Wings (MAW) and one Reserve MAW, testing and training installations, and provides assets for use by the Marine Expeditionary Forces during contingency operations.															
[P5 - 2 / Acft Rearming Equip]: This program funds the procurement of common Armament Support Equipment (ASE), and Weapons Support Equipment (WSE) under the procurement and inventory control of the Naval Inventory Control Point and the Naval Air Systems Command. This budget line supports: (a) initial outfitting for all in-production weapons systems; (b) procurement of new Support Equipment, and (c) procurement of replacement items for obsolete Support Equipment. These items support sustained operations and surge deployments of the CV battle groups. Shipboard/Shorebased WSE is utilized by weapons departments to handle, transport, and maintain weapons. Shipboard/Shorebased ASE is utilized by squadrons and supporting activities to load and service aircraft weapons and guns.															
[P5 - 3 / Air Launch & Recovery Equip]: This program provides for the procurement of aircraft launch, recovery, visual landing aids, and related information systems as well as ancillary items required for installation aboard aircraft carriers, air capable combatant vessels, amphibious assault ships and shore stations. Procurements are initiated due to a variety of reasons including fleet-generated reports associated with safe and reliable operations of existing equipment, support of fixed and rotary wing aircraft on Air Capable Ships, and maintaining reliability, availability and maintainability of ALRE equipment.															

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment		P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0204112N	Other Related Program Elements: 0604512N
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
Engineering Change Proposals (ECPs) are generated and processed via a Configuration Control Board. Once approved, the ECP final product is a service change kit. These kits are identified for installation aboard applicable ships as well as shore-based installations in the ECP. Major shipboard equipment items are generally installed by shipyard personnel, alteration installation teams or fleet readiness centers voyage repair teams during routine or restricted availabilities of the various ships. Service change kits support corrective actions that result from changes in operational conditions, obsolescence, and improvements in reliability, availability and maintainability.		
FY14 and prior years funded under Aircraft Support Equipment (BLI 4216).		
[P3A - 4 / LAMPS MK III - SRQ(KU)-4 (S1010): LAMPS MK III is a over the horizon information dominance system with a high-speed, air-to-ground, digital data link that transmits reconnaissance and other data from MH-60 helicopters to surface ships (cruisers and destroyers) to enable data, imagery, electronic support measures, communications, and radar information via the Ku-band link.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy							Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment				P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment					
ID Code (A=Service Ready, B=Not Service Ready): B				Program Elements for Code B Items: 0204112N					
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)
P-5	1 / Expeditionary Airfields	P-5a		- / 0.000	- / 7.423	- / 8.425	- / 7.984	- / -	- / 7.984
P-5	2 / Acft Rearming Equip	P-5a, P-21		- / 0.000	- / 11.836	- / 11.857	- / 11.251	- / -	- / 11.251
P-5	3 / Air Launch & Recovery Equip			- / 0.000	- / 9.200	- / 33.675	- / 44.951	- / -	- / 44.951
P-3a	1 / ALRE - Advanced Arresting Gear (SJ301) (Advanced Arresting Gear (SJ301))			- / 0.000	- / 3.685	- / 5.655	- / 2.234	- / -	- / 2.234
P-3a	2 / ALRE - ADMACS Block Upgrade (SJ302) (Increase Capability)			- / 0.000	- / 9.079	- / 44.313	- / 33.937	- / -	- / 33.937
P-3a	3 / ALRE - Electromagnetic Aircraft Launch System (EMALS) (SJ306) (Reliability and Maintainability)			- / 0.000	- / -	- / -	- / 1.057	- / -	- / 1.057
P-3a	4 / LAMPS MK III - SRQ(KU)-4 (S1010) (Non-Organic)			- / 0.000	- / 13.972	- / 19.959	- / 18.910	- / -	- / 18.910
P-40	Total Gross/Weapon System Cost			- / 0.000	- / 55.195	- / 123.884	- / 120.324	- / -	- / 120.324
Exhibits Schedule			FY 2018		FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)
P-5	1 / Expeditionary Airfields	P-5a		- / -	- / -	- / -	- / -	- / -	- / -
P-5	2 / Acft Rearming Equip	P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / -
P-5	3 / Air Launch & Recovery Equip			- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / ALRE - Advanced Arresting Gear (SJ301) (Advanced Arresting Gear (SJ301))			- / 4.673	- / 4.694	- / 5.301	- / 3.495	Continuing	Continuing
P-3a	2 / ALRE - ADMACS Block Upgrade (SJ302) (Increase Capability)			- / 21.421	- / 22.506	- / 19.900	- / 19.313	Continuing	Continuing
P-3a	3 / ALRE - Electromagnetic Aircraft Launch System (EMALS) (SJ306) (Reliability and Maintainability)			- / 5.337	- / 7.471	- / 9.343	- / 6.040	Continuing	Continuing
P-3a	4 / LAMPS MK III - SRQ(KU)-4 (S1010) (Non-Organic)			- / 24.890	- / 25.422	- / 25.981	- / 26.509	Continuing	Continuing
P-40	Total Gross/Weapon System Cost			- / 122.313	- / 124.721	- / 130.847	- / 127.045	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

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

Justification:

Expeditionary Airfields (EAF) - FY 2017 baseline funding is required for EAF Surfacing equipment, EAF Lighting Equipment, EAF Arresting Gear, associated ECPs and support.

Aircraft Rearming Equipment - FY 2017 baseline funding is required for USMC A/M32K-4A Munitions Trailer Replacement, MHU-191/M CIOP, and associated support costs.

Aircraft Launch and Recovery Equipment (ALRE) - FY 2017 baseline funding is required for ALRE equipment, Advanced Arresting Gear (AAG), Aviation Data Management and Control System (ADMACS) Block Upgrade, and associated support.

LAMPS MK III Shipboard Equipment - The FY 2017 baseline funding is required for the procurement of 5 AN/SRQ-4(Ku) field install kits and associated support and installation costs to meet the MH-60R deployment schedule.

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment										Item Number / Title [DODIC]: 1 / Expeditionary Airfields					
ID Code (A=Service Ready, B=Not Service Ready) :													MDAP/MAIS Code:					
Resource Summary				Prior Years			FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Procurement Quantity (<i>Units in Each</i>)				-			-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				0.000			7.423		8.425		7.984		-		7.984			
Less PY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				0.000			7.423		8.425		7.984		-		7.984			
Plus CY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				0.000			7.423		8.425		7.984		-		7.984			
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Hardware - (SE010) EAF Surfacing Equipment Cost																		
Recurring Cost																		
1.1.1) AM-2-Matting (F72) ⁽¹⁾	-	-	0.000	7,162.00	27	0.193	7,162.00	32	0.229	7,162.00	32	0.229	-	-	-	7,162.00	32	0.229
1.1.2) AM-2 Matting (F73) ⁽¹⁾	-	-	0.000	9,495.00	1	0.009	9,495.00	2	0.019	9,495.00	2	0.019	-	-	-	9,495.00	2	0.019
1.1.3) AM-2 Matting (F71) ⁽¹⁾ ⁽¹⁾	-	-	0.000	11,375.00	42	0.478	11,375.00	55	0.626	11,375.00	48	0.546	-	-	-	11,375.00	48	0.546
1.1.7) AM-2 Accessory Packs (1) ⁽²⁾	-	-	0.000	-	-	0.386	-	-	0.307	-	-	0.307	-	-	-	-	-	0.307
1.1.8) Surfacing engineering change proposals ⁽³⁾	-	-	0.000	-	-	1.852	-	-	2.003	-	-	2.196	-	-	-	-	-	2.196
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	2.918	-	-	3.184	-	-	3.297	-	-	-	-	-	3.297
<i>Subtotal: Hardware - (SE010) EAF Surfacing Equipment Cost</i>	-	-	0.000	-	-	2.918	-	-	3.184	-	-	3.297	-	-	-	-	-	3.297
Hardware - (SE860) Acceptance Testing and Evaluation - Surfacing Cost																		
Recurring Cost																		
2.1.1) EAF Surfacing Equipment ⁽⁴⁾	-	-	0.000	-	-	0.156	-	-	0.314	-	-	0.712	-	-	-	-	-	0.712
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.156	-	-	0.314	-	-	0.712	-	-	-	-	-	0.712
<i>Subtotal: Hardware - (SE860) Acceptance Testing</i>	-	-	0.000	-	-	0.156	-	-	0.314	-	-	0.712	-	-	-	-	-	0.712

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment									Item Number / Title [DODIC]: 1 / Expeditionary Airfields																
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total													
	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)											
and Evaluation - Surfacing Cost																													
Hardware - (SE010) EAF Lighting Equipment Cost																													
Recurring Cost																													
3.1.1) Man Portable Lights ⁽⁵⁾	-	-	0.000	-	-	0.540	-	-	0.822	-	-	0.338	-	-	-	-	-	0.338											
3.1.2) Lighting Engineering Change Proposals ⁽⁶⁾	-	-	0.000	-	-	1.250	-	-	1.674	-	-	2.118	-	-	-	-	-	2.118											
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	1.790	-	-	2.496	-	-	2.456	-	-	-	-	-	2.456											
<i>Subtotal: Hardware - (SE010) EAF Lighting Equipment Cost</i>	-	-	0.000	-	-	1.790	-	-	2.496	-	-	2.456	-	-	-	-	-	2.456											
Hardware - Acceptance Testing - Lighting Cost																													
Recurring Cost																													
4.1.1) EAF Lighting Equipment ⁽⁷⁾	-	-	0.000	-	-	0.390	-	-	0.892	-	-	0.020	-	-	-	-	-	0.020											
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.390	-	-	0.892	-	-	0.020	-	-	-	-	-	0.020											
<i>Subtotal: Hardware - Acceptance Testing - Lighting Cost</i>	-	-	0.000	-	-	0.390	-	-	0.892	-	-	0.020	-	-	-	-	-	0.020											
Hardware - (SE0210) EAF Arresting Gear Cost																													
Recurring Cost																													
5.1.2) M-31 Engineering Change Proposals ⁽⁸⁾	-	-	0.000	-	-	0.412	-	-	0.263	-	-	0.249	-	-	-	-	-	0.249											
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.412	-	-	0.263	-	-	0.249	-	-	-	-	-	0.249											
<i>Subtotal: Hardware - (SE0210) EAF Arresting Gear Cost</i>	-	-	0.000	-	-	0.412	-	-	0.263	-	-	0.249	-	-	-	-	-	0.249											
Hardware - Acceptance Testing - Arresting Gear Cost																													
Recurring Cost																													
6.1.1) EAF Arresting Gear	-	-	0.000	-	-	0.314	-	-	0.021	-	-	0.029	-	-	-	-	-	0.029											
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.314	-	-	0.021	-	-	0.029	-	-	-	-	-	0.029											
<i>Subtotal: Hardware - Acceptance Testing - Arresting Gear Cost</i>	-	-	0.000	-	-	0.314	-	-	0.021	-	-	0.029	-	-	-	-	-	0.029											
Support - (SE800) Integrated Logistics Cost																													

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment								Item Number / Title [DODIC]: 1 / Expeditionary Airfields													
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)										
7.1) EAF Surfacing Equipment	-	-	0.000	-	-	0.510	-	-	0.529	-	-	0.477	-	-	-	-	0.477								
7.2) EAF Lighting Equipment	-	-	0.000	-	-	0.087	-	-	0.099	-	-	0.041	-	-	-	-	0.041								
7.3) EAF Arresting Gear	-	-	0.000	-	-	0.161	-	-	0.040	-	-	0.035	-	-	-	-	0.035								
<i>Subtotal: Support - (SE800) Integrated Logistics Cost</i>	-	-	0.000	-	-	0.758	-	-	0.668	-	-	0.553	-	-	-	-	0.553								
Support - (SE830) Production Engineering Cost																									
8.1) EAF Surfacing Equipment	-	-	0.000	-	-	0.310	-	-	0.377	-	-	0.480	-	-	-	-	0.480								
8.2) EAF Lighting Equipment	-	-	0.000	-	-	0.145	-	-	0.120	-	-	0.107	-	-	-	-	0.107								
8.3) EAF Arresting Gear	-	-	0.000	-	-	0.230	-	-	0.090	-	-	0.081	-	-	-	-	0.081								
<i>Subtotal: Support - (SE830) Production Engineering Cost</i>	-	-	0.000	-	-	0.685	-	-	0.587	-	-	0.668	-	-	-	-	0.668								
Gross/Weapon System Cost	-	-	0.000	-	-	7.423	-	-	8.425	-	-	7.984	-	-	-	-	7.984								
Remarks:																									
The quantities of AM-2 and Light Weight Matting procured vary depending on the type of matting and service change requirements each year. The equipment, accessories and service changes are procured and fielded with these funds. Equipment procurements are based on inventory shortfalls, product improvements to fill or correct deficiencies, modernizing EAF equipment to improve maintainability, reliability and safety-of-flight and to keep pace with new aircraft and aircraft systems.																									
PE and ILS costs updated to reflect NWCF Rates Adjustment FY17-21.																									
(†) indicates the presence of a P-5a																									
Footnotes:																									
(1) FY15 - FY17 AM2 Matting (cost elements 1.1.1 - 1.1.3) unit cost change based on renewal of EAF awarded procurement contract. Unit costs will remain constant throughout the FYDP. The cost of the AM2 is based on a yearly rate of 50,000 square feet which is used to account for lost and damaged AM2. This rate ensures that the assets in the Table of Basic Allowance are maintained. This does not include the addition of AM2 assets to the inventory, but sustainment only. FY15 - FY17 AM2 Matting (cost elements 1.1.1 - 1.1.3) quantity changes based on tracking of EAF projected fleet requirements from the Table of Basic Allowance and the Marine Wing Support Squadron available assets to determine what needs to be procured on an annual basis.																									
(2) AM-2 Accessory Packs (1.1.7) and Man Portable Light Packs (3.1.1) consists of multiple low priced items. There are several types of configurations that are procured each year, therefore, individual quantities are not provided for some Expeditionary equipment.																									
(3) Surfacing Engineering Change Proposals (1.1.8) are required to adapt to diverse airfield operating environments which drive changes to tool kits necessary for matting installation, accommodating new aircraft heat signatures (i.e. JSF) as well as variable soil compositions. The increase in FY16 to FY17 is to support Surfacing ECPs and the associated engineering support.																									
(4) 2.1.1 - The increase between FY16 and FY17 is driven by the Acceptance Testing required to support multiple Surfacing ECPs.																									

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3	P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment	Item Number / Title [DODIC]: 1 / Expeditionary Airfields		
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:			
(5) 3.1.1 -The increase from FY15 to FY16 reflects the current HQ Marine Corps requirement of Man Portable Lights based on fleet safety concerns and readiness.				
(6) Lighting Engineering Change Proposals (3.1.2) address the obsolescence and reliability of an aging legacy system. The ECP work for the Minimum Operating Strip Lighting System (MOSLS) and Man Portable Lights provides upgrades to obsolescent incandescent bulbs, unreliable battery systems, and other deficiencies.				
(7) 4.1.1 - The increase in FY15 to FY16 is driven by the Acceptance Testing required to support multiple Lighting ECPs.				
(8) M-31 Engineering Change Proposals (5.1.2) address failures and obsolescence issues associated with the M-31, which focuses on component failures that require compatibility efforts and retrofit designs to reduce safety hazards on multiple land surfaces.				

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment					Item Number / Title [DODIC]: 1 / Expeditionary Airfields				
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
1.1.1) AM-2-Matting (F72)		2015	ALFAB / Montgomery, AL	C / FFP	LKE	Feb 2015	May 2015	27	7,162.00	Y		Sep 2011
1.1.1) AM-2-Matting (F72)		2016	ALFAB / Montgomery, AL	C / FFP	LKE	Feb 2016	May 2016	32	7,162.00	Y		Sep 2011
1.1.2) AM-2 Matting (F73)		2015	ALFAB / Montgomery, AL	C / FFP	LKE	Feb 2015	May 2015	1	9,495.00	Y		Sep 2011
1.1.2) AM-2 Matting (F73)		2016	ALFAB / Montgomery, AL	C / FFP	LKE	Feb 2016	May 2016	2	9,495.00	Y		Sep 2011
1.1.3) AM-2 Matting (F71)		2015	ALFAB / Montgomery, AL	C / FFP	LKE	Feb 2015	May 2015	42	11,375.00	Y		Sep 2011
1.1.3) AM-2 Matting (F71)		2016	ALFAB / Montgomery, AL	C / FFP	LKE	Feb 2016	May 2016	55	11,375.00	Y		Sep 2011

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment										Item Number / Title [DODIC]: 2 / Acft Rearming Equip					
ID Code (A=Service Ready, B=Not Service Ready) :													MDAP/MAIS Code:					
Resource Summary				Prior Years			FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Procurement Quantity (<i>Units in Each</i>)				-			-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				0.000			11.836		11.857		11.251		-		11.251			
Less PY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				0.000			11.836		11.857		11.251		-		11.251			
Plus CY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				0.000			11.836		11.857		11.251		-		11.251			
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Hardware - HARDWARE - Ordnance Assembly Cost																		
Recurring Cost																		
1.1.1) SH042 - USMC WEAPONS ASSEMBLY STATION (A/E32K-11 LIFTING ASSLY) ^{(†)(9)}	-	-	0.000	264,075.00	3	0.792	264,075.00	6	1.584	-	-	-	-	-	-	-	-	
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.792</i>	-	-	<i>1.584</i>	-	-	-	-	-	-	-	-	
<i>Subtotal: Hardware - HARDWARE - Ordnance Assembly Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.792</i>	-	-	<i>1.584</i>	-	-	-	-	-	-	-	-	
Hardware - HARDWARE - Ordnance Transport Cost																		
Recurring Cost																		
2.1.1) SH036 - USMC A/M32K-4A MUN TRLR REPLACEMENT - (A/M32K-10 MUN TRLR) ^(†)	-	-	0.000	56,118.40	107	6.005	61,147.37	95	5.809	61,147.37	109	6.665	-	-	-	61,147.37	109	6.665
2.1.2) SH043 - MHU-191/M CILOP - MHU-191A/M MUN TRANSPORTER ^(†)	-	-	0.000	6,000.00	193	1.158	6,120.00	174	1.065	6,242.40	441	2.753	-	-	-	6,242.40	441	2.753
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>7.163</i>	-	-	<i>6.874</i>	-	-	<i>9.418</i>	-	-	-	-	-	<i>9.418</i>
<i>Subtotal: Hardware - HARDWARE - Ordnance Transport Cost</i>	-	-	<i>0.000</i>	-	-	<i>7.163</i>	-	-	<i>6.874</i>	-	-	<i>9.418</i>	-	-	-	-	-	<i>9.418</i>

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment									Item Number / Title [DODIC]: 2 / Acft Rearming Equip													
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)								
Hardware - HARDWARE - Ordnance Loading Cost																										
Recurring Cost																										
3.1.2) SH046 - USMC A/S32K-1E WEAPONS LOADER REPLACEMENT ^(†)	-	-	0.000	-	-	-	647,000.00	2	1.294	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	-	-	-	1.294	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Hardware - HARDWARE - Ordnance Loading Cost</i>	-	-	0.000	-	-	-	-	-	1.294	-	-	-	-	-	-	-	-	-								
Hardware - SH920 NON-RECURRING Cost																										
Non Recurring Cost																										
4.1.3) Ordnance Loading	-	-	0.000	-	-	-	-	-	0.394	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	-	-	-	0.394	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Hardware - SH920 NON-RECURRING Cost</i>	-	-	0.000	-	-	-	-	-	0.394	-	-	-	-	-	-	-	-	-								
Hardware - SH010 ECP Cost																										
Recurring Cost																										
5.1.2) Ordnance Transport ECP ^(†)	-	-	0.000	-	-	1.718	-	-	0.057	-	-	0.112	-	-	-	-	-	0.112								
5.1.3) Ordnance Loading ECP	-	-	0.000	-	-	0.050	-	-	0.059	-	-	0.112	-	-	-	-	-	0.112								
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	1.768	-	-	0.116	-	-	0.224	-	-	-	-	-	0.224								
<i>Subtotal: Hardware - SH010 ECP Cost</i>	-	-	0.000	-	-	1.768	-	-	0.116	-	-	0.224	-	-	-	-	-	0.224								
Hardware - SH860 Acceptance Test & Eval Cost																										
Recurring Cost																										
6.1.1) Ordnance Assembly Acceptance Testing	-	-	0.000	-	-	0.105	-	-	0.066	-	-	-	-	-	-	-	-	-								
6.1.2) Ordnance Transport Acceptance Testing	-	-	0.000	-	-	0.174	-	-	0.120	-	-	0.215	-	-	-	-	-	0.215								
6.1.3) Ordnance Loading Acceptance Testing	-	-	0.000	-	-	0.206	-	-	0.165	-	-	0.284	-	-	-	-	-	0.284								
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.485	-	-	0.351	-	-	0.499	-	-	-	-	-	0.499								

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment									Item Number / Title [DODIC]: 2 / Acft Rearming Equip																
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)											
<i>Subtotal: Hardware - SH860 Acceptance Test & Eval Cost</i>	-	-	0.000	-	-	0.485	-	-	0.351	-	-	0.499	-	-	-	-	-	0.499											
Support - SH800 ILS Cost																													
7.1) Ordnance Assembly	-	-	0.000	-	-	0.096	-	-	0.090	-	-	-	-	-	-	-	-	-											
7.2) Ordnance Transport	-	-	0.000	-	-	0.124	-	-	0.238	-	-	0.199	-	-	-	-	-	0.199											
7.3) Ordnance Loading	-	-	0.000	-	-	0.207	-	-	0.296	-	-	0.379	-	-	-	-	-	0.379											
<i>Subtotal: Support - SH800 ILS Cost</i>	-	-	0.000	-	-	0.427	-	-	0.624	-	-	0.578	-	-	-	-	-	0.578											
Support - SH830 Production Engineering Cost																													
8.1) Ordnance Assembly PE	-	-	0.000	-	-	0.392	-	-	0.173	-	-	-	-	-	-	-	-	-											
8.2) Ordnance Transport PE	-	-	0.000	-	-	0.193	-	-	0.197	-	-	0.271	-	-	-	-	-	0.271											
8.3) Ordnance Loading PE	-	-	0.000	-	-	0.616	-	-	0.250	-	-	0.261	-	-	-	-	-	0.261											
<i>Subtotal: Support - SH830 Production Engineering Cost</i>	-	-	0.000	-	-	1.201	-	-	0.620	-	-	0.532	-	-	-	-	-	0.532											
Gross/Weapon System Cost	-	-	0.000	-	-	11.836	-	-	11.857	-	-	11.251	-	-	-	-	-	11.251											

(†) indicates the presence of a P-5a

Footnotes:

(9) (SH042) USMC WEAPONS ASSEMBLY STATION FY16 quantity increased from four to six with no cost growth due to an economy of scale buy.

(10) (SH010) Ordnance Transport ECP funding increase in FY15 due to purchasing factory production line ECP upgrade kits for A/M32K-10 Munitions Trailers to address emergent brake system and hardware corrosion issues.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment					Item Number / Title [DODIC]: 2 / Acft Rearming Equip				
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
1.1.1) SH042 - USMC WEAPONS ASSEMBLY STATION (A/E32K-11 LIFTING ASSLY)		2015 ⁽¹¹⁾	CAROLINA GROWLER / STAR, NC	C / FFP	NAWCADLKE	Jul 2016	Mar 2017	3	264,075.00	Y		Mar 2010
1.1.1) SH042 - USMC WEAPONS ASSEMBLY STATION (A/E32K-11 LIFTING ASSLY)		2016	CAROLINA GROWLER / STAR, NC	C / FFP	NAWCADLKE	Jul 2016	Nov 2016	6	264,075.00	Y		Mar 2010
2.1.1) SH036 - USMC A/M32K-4A MUN TRLR REPLACEMENT - (A/ M32K-10 MUN TRLR) ^(†)		2015	CAROLINA GROWLER / STAR, NC	C / FFP	NAWCADLKE	Dec 2014	Aug 2015	107	56,118.40	Y		Nov 2010
2.1.1) SH036 - USMC A/M32K-4A MUN TRLR REPLACEMENT - (A/ M32K-10 MUN TRLR) ^(†)		2016	CAROLINA GROWLER / STAR, NC	C / FFP	NAWCADLKE	Dec 2015	Aug 2016	95	61,147.37	Y		Nov 2010
2.1.1) SH036 - USMC A/M32K-4A MUN TRLR REPLACEMENT - (A/ M32K-10 MUN TRLR) ^(†)		2017	CAROLINA GROWLER / STAR, NC	C / FFP	NAWCADLKE	Dec 2016	Aug 2017	109	61,147.37	Y		Nov 2010
2.1.2) SH043 - MHU-191/M CILOP - MHU-191A/M MUN TRANSPORTER		2015 ⁽¹²⁾	DEVAL CORPORATION / PHILADELPHIA, PA	C / FFP	NAWCADLKE	Apr 2015	Dec 2015	193	6,000.00	Y		Jun 2011
2.1.2) SH043 - MHU-191/M CILOP - MHU-191A/M MUN TRANSPORTER		2016	DEVAL CORPORATION / PHILADELPHIA, PA	C / FFP	NAWCADLKE	Jan 2016	Sep 2016	174	6,120.00	Y		Jun 2011
2.1.2) SH043 - MHU-191/M CILOP - MHU-191A/M MUN TRANSPORTER		2017	DEVAL CORPORATION / PHILADELPHIA, PA	C / FFP	NAWCADLKE	Jan 2017	Sep 2017	441	6,242.40	Y		Jun 2011
3.1.2) SH046 - USMC A/ S32K-1E WEAPONS LOADER REPLACEMENT		2016	TBD / TBD	C / FFP	NAWCADLKE	Jan 2016	Jul 2016	2	647,000.00	N	Jan 2016	Jun 2015

^(†) indicates the presence of a P-21

Footnotes:

(11) Award date moved to July of FY16 due to the acquisition strategy for the production units being revised to reflect awarding a contract using the updated Technical Data Package (TDP) to resolve Discrepancies Reports (DRs) with previous units.

(12) Award date moved to April of FY15 due to acquisition strategy change for the procurement of MHU-191 A/M component parts, brake cable assembly, and wheel assembly.

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Exhibit P-21, Production Schedule: PB 2017 Navy																				Date: February 2016																			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment										Item Number / Title [DODIC]: 2 / Acft Rearming Equip																			
Cost Elements (Units in Each)							Fiscal Year 2015												Fiscal Year 2016																				
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	FY	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	B A L A N C E								
2.1.1) SH036 - USMC A/M32K-4A MUN TRLR REPLACEMENT - (A/M32K-10 MUN TRLR)																																							
1	2015	NAVY	107	-	107		A -	-	-	-	-	-	-	-	3	8	9	10	11	11	11	11	9	8	8	8	8	8	8	8	8	-							
1	2016	NAVY	95	-	95																															3	7	85	
1	2017	NAVY	109	-	109																																	109	
							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 2017 Navy																			Date: February 2016																				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment										Item Number / Title [DODIC]: 2 / Acft Rearming Equip																			
Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018																				
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	FY	Fiscal Year 2017												Fiscal Year 2018																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L A N C E								
2.1.1) SH036 - USMC A/M32K-4A MUN TRLR REPLACEMENT - (A/M32K-10 MUN TRLR)																																							
1	2015	NAVY	107	107	-																										-								
1	2016	NAVY	95	10	85		8	9	10	10	10	9	8	7	7	7														-									
1	2017	NAVY	109	-	109		A	-	-	-	-	-	-	-	-	-	7	8	9	10	11	10	10	9	10	9	9	7	-										

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Exhibit P-21, Production Schedule: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment					Item Number / Title [DODIC]: 2 / Acft Rearming Equip				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	CAROLINA GROWLER - STAR, NC	38	152	305	-	2	18	20	-	2	8	10

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment										Item Number / Title [DODIC]: 3 / Air Launch & Recovery Equip					
ID Code (A=Service Ready, B=Not Service Ready) :													MDAP/MAIS Code:					
Resource Summary				Prior Years			FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Procurement Quantity (<i>Units in Each</i>)				-			-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				0.000			9.200		33.675		44.951		-		44.951			
Less PY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				0.000			9.200		33.675		44.951		-		44.951			
Plus CY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				0.000			9.200		33.675		44.951		-		44.951			
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Hardware - SJ040 - Service Change Kits Cost																		
Recurring Cost																		
1.1.1) Information Systems (SJ040) ⁽¹³⁾	-	-	0.000	-	-	0.205	-	-	1.492	-	-	3.807	-	-	-	-	-	3.807
1.1.2) Visual Landing Aids (SJ040) ⁽¹⁴⁾	-	-	0.000	-	-	0.537	-	-	6.983	-	-	7.256	-	-	-	-	-	7.256
1.1.3) Launcher (SJ040) ⁽¹⁵⁾	-	-	0.000	-	-	-	-	-	0.065	-	-	1.853	-	-	-	-	-	1.853
1.1.4) Recovery (SJ040) ⁽¹⁶⁾	-	-	0.000	-	-	0.215	-	-	0.752	-	-	3.759	-	-	-	-	-	3.759
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	0.957	-	-	9.292	-	-	16.675	-	-	-	-	-	16.675
<i>Subtotal: Hardware - SJ040 - Service Change Kits Cost</i>	-	-	0.000	-	-	0.957	-	-	9.292	-	-	16.675	-	-	-	-	-	16.675
Hardware -- SJ305 - Non-Recurring Engineering Cost																		
Non Recurring Cost																		
2.1.1) Information Systems - NRE	-	-	0.000	-	-	2.509	-	-	4.641	-	-	4.497	-	-	-	-	-	4.497
2.1.2) Visual Landing Aids ⁽¹⁷⁾	-	-	0.000	-	-	-	-	-	4.721	-	-	5.525	-	-	-	-	-	5.525
2.1.3) Launcher	-	-	0.000	-	-	-	-	-	1.656	-	-	1.047	-	-	-	-	-	1.047
2.1.4) Recovery ⁽¹⁸⁾	-	-	0.000	-	-	-	-	-	2.964	-	-	7.158	-	-	-	-	-	7.158
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	2.509	-	-	13.982	-	-	18.227	-	-	-	-	-	18.227

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment									Item Number / Title [DODIC]: 3 / Air Launch & Recovery Equip																
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)											
<i>Subtotal: Hardware --</i> <i>SJ305 - Non-Recurring Engineering Cost</i>	-	-	0.000	-	-	2.509	-	-	13.982	-	-	18.227	-	-	-	-	-	18.227											
Support - SJ800 - Integrated Logistics Cost																													
3.1) Information Systems	-	-	0.000	-	-	0.276	-	-	0.316	-	-	0.297	-	-	-	-	-	0.297											
3.2) Visual Landing Aids	-	-	0.000	-	-	0.279	-	-	0.418	-	-	0.333	-	-	-	-	-	0.333											
3.3) Launcher	-	-	0.000	-	-	0.294	-	-	0.081	-	-	0.220	-	-	-	-	-	0.220											
3.4) Recovery	-	-	0.000	-	-	0.487	-	-	0.761	-	-	0.647	-	-	-	-	-	0.647											
<i>Subtotal: Support - SJ800 - Integrated Logistics Cost</i>	-	-	0.000	-	-	1.336	-	-	1.576	-	-	1.497	-	-	-	-	-	1.497											
Support - SJ830 - Production Engineering Cost																													
4.1) Information Systems	-	-	0.000	-	-	0.829	-	-	0.784	-	-	1.029	-	-	-	-	-	1.029											
4.2) Visual Landing Aids (19)	-	-	0.000	-	-	0.990	-	-	1.722	-	-	1.094	-	-	-	-	-	1.094											
4.3) Launcher	-	-	0.000	-	-	0.493	-	-	0.316	-	-	0.335	-	-	-	-	-	0.335											
4.4) Recovery	-	-	0.000	-	-	1.240	-	-	1.076	-	-	1.152	-	-	-	-	-	1.152											
<i>Subtotal: Support - SJ830 - Production Engineering Cost</i>	-	-	0.000	-	-	3.552	-	-	3.898	-	-	3.610	-	-	-	-	-	3.610											
Support - SJ900 - Installation -NonFMP Cost																													
5.1) Information Systems	-	-	0.000	-	-	-	-	-	0.485	-	-	0.235	-	-	-	-	-	0.235											
5.2) Visual Landing Aids	-	-	0.000	-	-	-	-	-	-	-	-	0.457	-	-	-	-	-	0.457											
5.4) Recovery	-	-	0.000	-	-	-	-	-	0.017	-	-	-	-	-	-	-	-	-											
<i>Subtotal: Support - SJ900 - Installation -NonFMP Cost</i>	-	-	0.000	-	-	-	-	-	0.502	-	-	0.692	-	-	-	-	-	0.692											
Support - SJ910 - Installation -FMP Cost																													
6.1) Information Systems	-	-	0.000	-	-	0.470	-	-	0.808	-	-	1.147	-	-	-	-	-	1.147											
6.2) Visual Landing Aids	-	-	0.000	-	-	0.210	-	-	1.327	-	-	1.087	-	-	-	-	-	1.087											
6.3) Launcher	-	-	0.000	-	-	-	-	-	1.148	-	-	0.771	-	-	-	-	-	0.771											
6.4) Recovery	-	-	0.000	-	-	0.166	-	-	1.142	-	-	1.245	-	-	-	-	-	1.245											
<i>Subtotal: Support - SJ910 - Installation -FMP Cost</i>	-	-	0.000	-	-	0.846	-	-	4.425	-	-	4.250	-	-	-	-	-	4.250											
Gross/Weapon System Cost	-	-	0.000	-	-	9.200	-	-	33.675	-	-	44.951	-	-	-	-	-	44.951											
Remarks: The Department of the Navy (DoN) added funding thru the Task Force Cyber Awakening (TFCA) in FY17 \$1.250M for Moriah Wind System (MWS) cyber defense upgrades (Information Systems).																													

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3	P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment	Item Number / Title [DODIC]: 3 / Air Launch & Recovery Equip
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
The DoN added funding to the Visual Landing Aids program for F-35B required Optical Landing System upgrades starting in FY17.		
The Electromagnetic Aircraft Launch System (EMALS) program and associated costs have been realigned from the ALRE P5 to the P3a exhibit.		
Service Life Management Plan (SLMP) program cost decreased from PB-16 budget due to an unforeseen delay in upgrades to the Mk-7 Arresting Gear Service Life Extension Program (SLEP) ECPs for the Fixed and Crosshead Sheaves. The delay was caused by the significant potential that these major subcomponents of the Mk-7 will need to be modified as part of the solution set to replace the originally planned Advance Arresting Gear (AAG) backfit on all Nimitz class CVNs. With AAG backfit now cancelled, the DoN has initiated an Analysis of Alternatives to address the recovery capability gap on Nimitz class CVNs in 2025, of which extending the capability of the Mk-7 will likely be some part of the solution set. As such, the planned Mk-7 SLEP ECPs, which were originally only planned to extend the current useful life of the Mk-7, and not to increase the recovery capability, were put on hold until the outcome of the AoA is known, at which time they will continue as planned or be redesigned as the AoA outcome directs. Funds for Mk-7 SLEP ECPs from PB-16 have been reprioritized across the other products in the ALRE portfolio to address a backlog of ALRE safety, critical obsolescence and high priority readiness changes to other products as described in the footnotes below.		
[Hardware] The recurring hardware funding shown is a combination of many planned hardware upgrades to a variety of Aircraft Launch and Recovery Systems and to a variety of ships/classes including Carrier Vessel Nuclear (CVNs), Amphibious Assault Ships (AAS), and Air Capable Ships (ACS), which include various unit costs/quantities for differing fiscal years. As such, hardware recurring costs will vary significantly year to year and within each item.		
[Hardware] Non-Recurring Engineering costs are associated with design, development, systems test and evaluation, tooling, logistics, systems engineering and project management of hardware or software Engineering Changes.		
[Hardware/Non-Recurring] CE 2.1.6 - Cost element omitted. Associated 2.1.6 costs are captured in Information Systems cost element 1.1.1.		
[Support Cost] Recurring Engineering Support costs are associated with the non-level of effort (organic) labor at NAWCAD Lakehurst directly supporting the manufacture of hardware, assembly kits and installation kits for many of the service changes.		
Footnotes:		
(13) CE 1.1.1 - Information Systems hardware cost increases from FY16 to FY17 are due to the start of an ECP for the Landing Signal Operator Display System (LSODS) that is required to address a critical fleet support and production obsolescence issue. Without this change, all Nimitz CVN LSODS will not be supportable and an LSODS cannot be produced and delivered for CVN 79.		
(14) CE 1.1.2 (VLA) - Fiscal year cost increases, from FY16 to FY17, are due to additional change kits for Visual Landing Aids (VLA) products. The most critical is the upgrade to the Improved Fresnel Lens Optical Landing System (IFLOLS) Phase IV (VLA) which includes F-35B, CBARS & JPALS integration capability, and addresses critical obsolescence. Increases in this cost element are also due to the receipt of additional funding for F-35B required Optical Lighting System (OLS) upgrades. OLS is a critical Safety of Flight system that is required for FCLP/CQ's for aircrew certification prior to shipboard deployment.		
(15) CE 1.1.3 - (Launcher) - Launcher recurring hardware cost increase from FY16 to FY17, is due primarily to the Engineering Change Proposal (ECP) effort that addresses a critical in port maintenance capability for the C-13 Catapult.		
(16) CE 1.1.4 (Recovery) - The fluctuation in costs from the PB16 budget is due to re-phasing program priorities and deferring some kit procurements until later in the FYDP.		
(17) CE 2.1.2 (VLA) - Fiscal year cost increases from FY16 to FY17 due to Aviation Lighting System - Control Panel Set (ALS-CPS), Multi-Functional Display, and Deck Status Display Engineering Change Proposals (ECP) that replace obsolete and unsupportable systems on Air Capable Ships, and provide Night Vision Device (NVD) capability for helicopter recovery. The increase is also due to the receipt of additional funding for F-35B required Optical Lighting System upgrades.		
(18) CE 2.1.4 (Recovery) - Funding increased between FY16 and FY17 due to development of several safety-driven ECPs to a variety of recovery systems including the Advanced Recovery Control (ARC) system on CVNs and the Recovery Assist Secure and Traverse (RAST) system on Air Capable Ships.		
(19) CE 4.2 (VLA) - Cost increased from FY15 to FY16 due to increased efforts with fielding Improved Fresnel Lens Optical Landing System (IFLOLS) Phase IV.		

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment						Modification Number / Title: 1 / ALRE - Advanced Arresting Gear (SJ301)			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	3.685	5.655	2.234	-	2.234	4.673	4.694	5.301	3.495	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	3.685	5.655	2.234	-	2.234	4.673	4.694	5.301	3.495	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	3.685	5.655	2.234	-	2.234	4.673	4.694	5.301	3.495	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	
Description: Advanced Arresting Gear (AAG) will replace the legacy Mark 7 arresting gear aboard Ford class aircraft carriers. AAG will provide the U.S. Navy with the ability to recover existing and projected aircraft carrier based air vehicles well into the 21st century. AAG will provide increased operational availability, while reducing manning, maintenance and support costs. FY14 and prior funded under Aircraft Support Equipment (BLI 4216).												

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment							Modification Number / Title: 1 / ALRE - Advanced Arresting Gear (SJ301)			
Models of Systems Affected: MK-7 legacy - Shorebased			Modification Type: Advanced Arresting Gear (SJ301)							Related RDT&E PEs: 0604512N			
		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Financial Plan		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement													
<i>Modification Item 1 of 1: ALRE - Advanced Arresting Gear (SJ301)</i>													
B Kits													
Recurring													
1.1.1) Installation Kits - Organic ⁽²⁰⁾		1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -
<i>Subtotal: Recurring</i>		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Non-Recurring													
1.2.1) Non-Recurring Engineering - NonOrganic ⁽²¹⁾		- / -	- / 0.734	- / 1.843	- / 1.596	- / -	- / 1.596	- / 3.776	- / 3.776	- / 4.473	- / 2.929	Continuing	Continuing
1.2.2) Data - Organic - Organic ⁽²²⁾		- / -	- / 0.966	- / 2.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.982
<i>Subtotal: Non-Recurring</i>		- / 0.000	- / 1.700	- / 3.859	- / 1.596	- / -	- / 1.596	- / 3.776	- / 3.776	- / 4.473	- / 2.929	Continuing	Continuing
<i>Subtotal: ALRE - Advanced Arresting Gear (SJ301)</i>		1 / 0.000	- / 1.700	- / 3.859	- / 1.596	- / -	- / 1.596	- / 3.776	- / 3.776	- / 4.473	- / 2.929	Continuing	Continuing
<i>Subtotal: Procurement, All Modification Items</i>		- / 0.000	- / 1.700	- / 3.859	- / 1.596	- / -	- / 1.596	- / 3.776	- / 3.776	- / 4.473	- / 2.929	Continuing	Continuing
Support (All Modification Items)													
2.1) ILS		- / 0.000	- / 0.534	- / 0.260	- / 0.186	- / -	- / 0.186	- / 0.238	- / 0.247	- / 0.146	- / 0.155	Continuing	Continuing
2.2) PE		- / 0.000	- / 1.451	- / 1.536	- / 0.452	- / -	- / 0.452	- / 0.659	- / 0.671	- / 0.682	- / 0.411	Continuing	Continuing
<i>Subtotal: Support</i>		- / 0.000	- / 1.985	- / 1.796	- / 0.638	- / -	- / 0.638	- / 0.897	- / 0.918	- / 0.828	- / 0.566	Continuing	Continuing
Installation													
<i>Subtotal: Installation</i>		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total													
Total Cost (Procurement + Support + Installation)		0.000	3.685	5.655	2.234	-	2.234	4.673	4.694	5.301	3.495	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3	P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment	Modification Number / Title: 1 / ALRE - Advanced Arresting Gear (SJ301)
Modification Item 1 of 1: ALRE - Advanced Arresting Gear (SJ301)		
Installation Information		
Method of Implementation (Organic): Installation Kits - Not Installed		Installation Quantity: 1

Footnotes:

(20) FY15 installation costs of \$3.250M have been realigned to cost elements 1.2.1, 2.1 and 2.2. Installation funding was originally planned for the installation of the Land Based Unit (LBU) kit procured with FY13 funding. However, to avoid critical test schedule delays, the LBU kit has been transferred as Government Furnished Equipment (GFE) to General Atomics under the AAG SDD program.

(21) 1.2.1 - Non-Recurring Engineering - Address engineering changes, obsolescence of hardware, correct deficiencies found during integration test and development test evaluation, and maintain cyber security compliance and field critical software updates. CVN78 will deliver with several known AAG deficiencies that could not be corrected prior to delivery. As a result additional funds allocated to the Non-Recurring Engineering cost element in FY18-21 are there to support these known deficiencies that will need to be corrected after delivery. As the schedule to design, produce and install retrofit kits is fully defined, the exhibit will be updated to move funds to the installation kit and installation cost elements in a future budget cycle.

(22) FY15 and FY16 data funds required to update drawings and specifications to address deficiencies discovered during the SDD program.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment							Modification Number / Title: 2 / ALRE - ADMACS Block Upgrade (SJ302)			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	0.000	9.079	44.313	33.937	-	33.937	21.421	22.506	19.900	19.313	Continuing	Continuing	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	0.000	9.079	44.313	33.937	-	33.937	21.421	22.506	19.900	19.313	Continuing	Continuing	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	0.000	9.079	44.313	33.937	-	33.937	21.421	22.506	19.900	19.313	Continuing	Continuing	
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-	

Description:

The Aviation Data Management and Control System (ADMACS) is an integrated, network-centric, shipboard aviation operations information management system, which will provide data required for aircraft carriers aviation operations planning, execution and readiness assessment. ADMACS communicates aviation and command related data elements across the ADMACS Local Area Network and Integrated Shipboard Network System that electronically displays position and location of aircraft on the flight and hangar decks, status of aircraft, Aircraft Launch and Recovery Equipment, fuel, weapons types and quantity as well as a wide variety of other aviation related and ship information.

The Milestone Decision Authority (MDA) has approved the ADMACS Block (Blk) II program rebaseline. The ADMACS program experienced an MDA directed rebaseline due to software deficiencies found during final Developmental Testing (DT)/Shipboard testing and the resultant need to defer Initial Operational Test and Evaluation. The rebaselined program will address DT identified software deficiencies as well as address all outstanding Information Assurance (IA) requirements/mandates and will provide for necessary obsolescence upgrades on this largely Commercial-Off-The Shelf system to address long term supportability. The rebaseline targets the Blk I ISNS ships first and then the remaining Blk I ships from an IA requirements perspective.

[Blk I/ISNS Kits - (Full)] Note also applies to cost elements 1.2.1 and 2.2.1. ADMACS Installation Modification Item 1 of 1: Installation costs include the advance planning costs (i.e. ship-check) for ADMACS which are funded and occur in the year prior to actual system installation. ADMACS installation information - Installation Cost: ADMACS Block II Upgrade is the common configuration planned for all CVNs. Depending on the system (Block I, Block I/ISNS or Block II) currently fielded, there is wide variance in the procurement and/or installation costs depending upon whether a full, completion, or upgrade Block II kit is procured or installed; current Blk I CVNs (68/72/73/74/76) and Blk I/ISNS CVNs (70/77) generally require a full Blk II kit and a full installation; current Blk II CVNs (69/71/75) require an upgrade kit only. Specifically, CVN77 and the Trainer require a completion kit.

The 3 Block II upgrade kits procured in FY14 are shown under BLI 4216 Budget. They are part of the Oct 2013 Milestone Decision Authority approved re-baseline, which are Block II upgrade kits for currently fielded Block II systems. The kits procured in FY14 are planned to be installed as follows: 2 in FY16 (Blk II upgrade to CVN 71 and 75) and 1 in FY17 (Blk II upgrade to CVN69). The funding increase from \$ 9.1M in FY15 to \$44.3M in FY16 does not present any execution challenges; FY16 funding execution is not dependent on the previous year's funding level. The FY15 funding in the budget is for obsolescence and Cybersecurity ECPs; no kit procurements, and no installs. The FY16 funding is for 3 kits, 3 ship installs, pre-planning for 2 FY17 installs, as well as continuing the obsolescence and Cybersecurity ECP efforts. In FY16, \$16.5M was added to ADMACS by Task Force Cyber

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Exhibit P-3a, Individual Modification: PB 2017 Navy	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3	P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment
Awakening, as directed by the Chief of Naval Operations (CNO) in order to meet cyber security compliance. The additional funding was vetted, approved, and deemed a priority by CNO in order to pull installs for CVN74 and CVN76 into FY16 and FY18 from FY20 and FY23, respectively. The time from procurement to installation varies due to: 1) constantly shifting CVN availabilities, and 2) the need to bundle procurements of several kits and do 2-year rolling obsolescence upgrade ECPs for each bundle. The 3 kits procured in FY16 are full kits, while the kit procured in FY17 is in support of a trainer with considerably reduced installation cost occurring in FY18. Installation cost for trainers is less because the install occurs in a lab based facility. The 2 kits procured in FY19 and the kits procured in FY20 and FY21 are Block II upgrade kits.	
FY14 and prior funded under Aircraft Support Equipment (BLI 4216)	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment							Modification Number / Title: 2 / ALRE - ADMACS Block Upgrade (SJ302)		
Models of Systems Affected: ADMACS Block 2			Modification Type: Increase Capability				Related RDT&E PEs: 0604512N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 2: Block I and Block I/ISNS												
B Kits												
Recurring												
1.1.1) Blk I/ISNS Kits - (Full) - NonOrganic	- / -	- / -	3 / 11.799	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.799
1.1.2) Hardware Obsolescence ECPs - Organic ⁽²³⁾	- / -	- / 1.181	- / 3.253	- / 1.845	- / -	- / 1.845	- / 1.982	- / -	- / -	- / -	- / -	- / 8.261
1.1.3) Cybersecurity - Organic	- / -	- / 0.879	- / 4.536	- / 3.147	- / -	- / 3.147	- / 1.711	- / -	- / -	- / -	- / -	- / 10.273
1.1.4) Systems Integration & Installation - Organic	- / -	- / 1.430	- / 2.880	- / 3.103	- / -	- / 3.103	- / 2.072	- / -	- / -	- / -	- / -	- / 9.485
Subtotal: Recurring	- / 0.000	- / 3.490	- / 22.468	- / 8.095	- / -	- / 8.095	- / 5.765	- / -	- / -	- / -	- / -	- / 39.818
Non-Recurring												
1.2.1) Completion Kits - NonOrganic ⁽²⁴⁾	- / -	- / -	- / -	1 / 1.810	- / -	1 / 1.810	- / -	- / -	- / -	- / -	- / -	1 / 1.810
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / 1.810	- / -	- / 1.810	- / -	- / -	- / -	- / -	- / -	- / 1.810
Subtotal: Block I and Block I/ISNS	- / -	- / 3.490	3 / 22.468	1 / 9.905	- / -	1 / 9.905	- / 5.765	- / -	- / -	- / -	- / -	4 / 41.628
Modification Item 2 of 2: Block II												
B Kits												
Recurring												
2.1.2) Hardware Obsolescence ECPs - Organic ⁽²⁵⁾	- / -	- / 0.850	- / 1.947	- / 2.370	- / -	- / 2.370	- / 1.693	- / 4.738	- / 3.103	- / 3.659	Continuing	Continuing
2.1.3) Cyber Security - Organic ⁽²⁶⁾	- / -	- / 0.510	- / 2.687	- / 4.854	- / -	- / 4.854	- / 3.134	- / 4.391	- / 3.565	- / 3.661	Continuing	Continuing
2.1.4) Systems Integration and Installation - Organic ⁽²⁷⁾	- / -	- / 0.600	- / 2.114	- / 3.068	- / -	- / 3.068	- / 1.943	- / 4.489	- / 2.175	- / 2.748	Continuing	Continuing
Subtotal: Recurring	- / 0.000	- / 1.960	- / 6.748	- / 10.292	- / -	- / 10.292	- / 6.770	- / 13.618	- / 8.843	- / 10.068	Continuing	Continuing
Non-Recurring												
2.2.1) Block II Upgrade Kits - NonOrganic ⁽²⁸⁾	3 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.566	1 / 1.287	1 / 1.287	Continuing	Continuing
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.566	- / 1.287	- / 1.287	Continuing	Continuing
Subtotal: Block II	3 / 0.000	- / 1.960	- / 6.748	- / 10.292	- / -	- / 10.292	- / 6.770	2 / 16.184	1 / 10.130	1 / 11.355	Continuing	Continuing
Subtotal: Procurement, All Modification Items	- / 0.000	- / 5.450	- / 29.216	- / 20.197	- / -	- / 20.197	- / 12.535	- / 16.184	- / 10.130	- / 11.355	Continuing	Continuing
Support (All Modification Items)												
3.1) ILS ⁽²⁹⁾	- / -	- / 0.525	- / 2.100	- / 1.906	- / -	- / 1.906	- / 1.490	- / 1.438	- / 1.263	- / 1.247	Continuing	Continuing
3.2) PE	- / -	- / 3.104	- / 3.806	- / 4.464	- / -	- / 4.464	- / 3.167	- / 3.257	- / 2.017	- / 2.334	Continuing	Continuing
Subtotal: Support	- / 0.000	- / 3.629	- / 5.906	- / 6.370	- / -	- / 6.370	- / 4.657	- / 4.695	- / 3.280	- / 3.581	Continuing	Continuing
Installation												

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment							Modification Number / Title: 2 / ALRE - ADMACS Block Upgrade (SJ302)		
Models of Systems Affected: ADMACS Block 2			Modification Type: Increase Capability				Related RDT&E PEs: 0604512N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Modification Item 1 of 2:</i> Block I and Block I/ISNS	- / 0.000	- / -	- / 4.213	- / 5.044	- / -	- / 5.044	- / 4.229	- / -	- / -	- / -	- / -	- / 13.486
<i>Modification Item 2 of 2:</i> Block II	- / 0.000	- / -	- / 4.978	- / 2.326	- / -	- / 2.326	- / -	- / 1.627	- / 6.490	- / 4.377	- / 4.377	- / 24.175
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / 9.191	- / 7.370	- / -	- / 7.370	- / 4.229	- / 1.627	- / 6.490	- / 4.377	- / 4.377	- / 37.661
Total												
Total Cost (Procurement + Support + Installation)	0.000	9.079	44.313	33.937	-	33.937	21.421	22.506	19.900	19.313	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2017 Navy													Date: February 2016																			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment									Modification Number / Title: 2 / ALRE - ADMACS Block Upgrade (SJ302)																			
Modification Item 1 of 2: Block I and Block I/ISNS																																
Manufacturer Information																																
Manufacturer Name: Chugaach Alaska Corp. - Blk I/ISNS Kits - (Full) ⁽³⁰⁾													Manufacturer Location: Chesapeake, VA																			
Administrative Leadtime (in Months): 1													Production Leadtime (in Months): 11																			
Dates	FY 2015		FY 2016		FY 2017		FY 2018		FY 2019		FY 2020		FY 2021																			
Contract Dates			Oct 2015																													
Delivery Dates			Sep 2016																													
Manufacturer Name: Chugaach Alaska Corp. - Completion Kits													Manufacturer Location: Chesapeake, VA																			
Administrative Leadtime (in Months): 1													Production Leadtime (in Months): 11																			
Dates	FY 2015		FY 2016		FY 2017		FY 2018		FY 2019		FY 2020		FY 2021																			
Contract Dates			Oct 2016																													
Delivery Dates			Sep 2017																													
Installation Information																																
Method of Implementation: AIT:: Installation Name: Blk I/ISNS Kits - (Full)																																
Installation Cost			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total																		
			Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)															
Prior Years			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																
FY 2015			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																
FY 2016			- / -	- / -	1 / 4.213	1 / 5.044	- / -	1 / 5.044	1 / 4.024	- / -	- / -	- / -	- / -	- / -	- / -	3 / 13.281																
FY 2017			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																
FY 2018			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																
FY 2019			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																
FY 2020			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																
FY 2021			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																
To Complete			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																
Total			- / -	- / -	1 / 4.213	1 / 5.044	- / -	1 / 5.044	1 / 4.024	- / -	- / -	- / -	- / -	- / -	- / -	3 / 13.281																
Installation Schedule																																
PYS	FY 2015			FY 2016			FY 2017			FY 2018			FY 2019			FY 2020			FY 2021			TC	Tot									
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4												
In	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	3											
Out	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	3											

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Exhibit P-3a, Individual Modification: PB 2017 Navy													Date: February 2016																		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment									Modification Number / Title: 2 / ALRE - ADMACS Block Upgrade (SJ302)																		
<i>Modification Item 1 of 2: Block I and Block I/ISNS</i>																															
Installation Information																															
Method of Implementation: AIT:: Installation Name: Completion Kits																															
Installation Cost			Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total		FY 2018		FY 2019		FY 2020		FY 2021		To Complete	Total							
			Qty (Each) / Total Cost (\$ M)	Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)									
Prior Years			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
FY 2015			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
FY 2016			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
FY 2017			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.205	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.205											
FY 2018			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
FY 2019			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
FY 2020			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
FY 2021			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
To Complete			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
Total			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.205	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.205											
Installation Schedule																															
PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4							
In	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1						
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1						

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Exhibit P-3a, Individual Modification: PB 2017 Navy														Date: February 2016										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3														Modification Number / Title: 2 / ALRE - ADMACS Block Upgrade (SJ302)										
Modification Item 2 of 2: Block II																								
Manufacturer Information																								
Manufacturer Name: Chugaach Alaska Corp. - Block II Upgrade Kits ⁽³¹⁾												Manufacturer Location: Chesapeake, Va												
Administrative Leadtime (in Months): 1												Production Leadtime (in Months): 11												
Dates	FY 2015	FY 2016		FY 2017		FY 2018		FY 2019		FY 2020		FY 2021												
Contract Dates										Oct 2018				Oct 2019		Oct 2020								
Delivery Dates										Sep 2019				Sep 2020		Sep 2021								
Installation Information																								
Method of Implementation: AIT:: Installation Name: Block II Upgrade Kits																								
Installation Cost			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total										
			Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																
Prior Years			- / -	- / -	2 / 4.978	1 / 2.326	- / 0.000	1 / 2.326	- / -	- / -	- / -	- / -	- / -	- / 0.000	3 / 7.304									
FY 2015			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -							
FY 2016			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -							
FY 2017			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -							
FY 2018			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -							
FY 2019			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 8.117								
FY 2020			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.377	1 / 4.377							
FY 2021			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.377	1 / 4.377							
To Complete			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -							
Total			- / -	- / -	2 / 4.978	1 / 2.326	- / -	1 / 2.326	- / -	- / -	- / 1.627	2 / 6.490	- / -	1 / 4.377	1 / 4.377	7 / 24.175								
Installation Schedule																								
PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2020							
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot						
In	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	2	-	-	-	-	1	1	7
Out	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	2	-	-	-	-	2	7	
Footnotes:																								
(23) CE 1.1.2 - 1.1.4 - Slight variation between costs from PB16 due to a more accurate accounting of Engineering Change Proposals (ECPs) and Cybersecurity requirements and cost estimates.																								
(24) FY 2017 completion kit is in support of a trainer with considerably reduced installation cost occurring in FY 2018. Installation cost for trainers is less because the install occurs in a lab based facility.																								
(25) Hardware obsolescence represents the organic work required to identify replacement components (and associated software) that have gone obsolete. Funding represents efforts to manage obsolescence in support of the procurement of ship sets. The identification, selection, and testing of the components is a two year process that recurs every two years to support the kit procurements. Also includes funding																								

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3	P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment	Modification Number / Title: 2 / ALRE - ADMACS Block Upgrade (SJ302)
for the organic work to support the ECPs that will upgrade the fielded Block II ships to the rebaselined configuration. CE 2.1.2 - 2.1.4 - Costs increased from PB16 due to growing obsolescence essentials and cybersecurity mandates. By 2019 all Block I and Block I/ISNS systems will be upgraded to Block II systems. Funding increases are in direct support of Block II system obsolescence and cybersecurity requirements due to the increased number of Block II systems that must be supported; systems increased from 3 in FY14 to 11 in FY19.		
(26) Broadened CyberSecurity requirements drive increased efforts to remain compliant with Software CyberSecurity directives and Information Assurance mandates. Maintaining compliance is critical to retaining an Authority to Operate within the Fleet.		
(27) System Integration and Installation captures the organic support for maintaining and operating the Fleet Representative test lab. The cost element includes the procurement of any assets to update the lab and procure replacement components for equipment failures, as well as annual licenses and agreements necessary to keep the lab current and operating.		
(28) The 3 Block II upgrade kits procured in FY14 are shown under BLI 4216 Budget. They are part of the Oct 2013 Milestone Decision Authority approved re-baseline, which are Block II upgrade kits for currently fielded Block II systems. The kits procured in FY14 are planned to be installed as follows: 2 in FY16 (Blk II upgrade to CVN 71 and 75) and 1 in FY17 (Blk II upgrade to CVN69). Kit Installation schedule is based on ship availability.		
(29) Increase in ILS in FY16 due to the one time development of the NTSP (Navy Training Systems Plan) and implementation of the formalized schoolhouse training.		
(30) Chugaach Alaska Corporation is the manufacturer for the three kit types. The time from procurement to installation varies due to: 1) constantly shifting CVN availabilities, and 2) the need to bundle procurements of several kits and do 2-year rolling obsolescence upgrade ECPs for each bundle.		
(31) Installation costs include advanced planning costs for follow-on year installations as follows: Block I and Block I/ISNS (Full Kits) in FY16 and FY17; Block II (Upgrade Kits) in FY16, FY19 (planning costs only \$1.627M), FY20 and FY21.		

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment						Modification Number / Title: 3 / ALRE - Electromagnetic Aircraft Launch System (EMALS) (SJ306)			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	-	1.057	-	1.057	5.337	7.471	9.343	6.040	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	-	-	1.057	-	1.057	5.337	7.471	9.343	6.040	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	-	1.057	-	1.057	5.337	7.471	9.343	6.040	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	
Description: The Electromagnetic Aircraft Launch System (EMALS) is replacing the C13 Steam Catapult System aboard Ford class carriers and is an advanced technology aircraft launch system which provides better control of applied forces, improved reliability and maintainability, reduced manning workload and increased operational availability.												
EMALS is a new start in FY17.												
The Electromagnetic Aircraft Launch System (EMALS) program and associated costs have been realigned from the ALRE P5 to the P3a exhibit.												

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment						Modification Number / Title: 3 / ALRE - Electromagnetic Aircraft Launch System (EMALS) (SJ306)			
Models of Systems Affected: C13-2 Steam Catapult			Modification Type: Reliability and Maintainability				Related RDT&E PEs: 0604512N					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1: ALRE - Electromagnetic Aircraft Launch System (EMALS) (SJ306)</i>												
B Kits												
Recurring												
1.1.1) Software / Cybersecurity - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.630	Continuing	Continuing
1.1.2) ESS Motor/Generator Bearing - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.435	- / -	- / -
1.1.3) PPIS Transformer Rectifier - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.444	- / -	- / -
1.1.4) Ground Fault Detection - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.476	- / -	- / -
1.1.5) Position Sensor - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.460	- / -	- / -
1.1.6) Hardware Obsolescence - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.870	- / -	- / -
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.300	- / 3.920	- / 5.435
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.630	Continuing	Continuing
Non-Recurring												
1.2.1) Non-Recurring Engineering - Organic (32)	- / -	- / -	- / -	- / 0.349	- / -	- / 0.349	- / 2.596	- / 2.477	- / 2.450	- / 1.900	Continuing	Continuing
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / -	- / 0.349	- / -	- / 0.349	- / 2.596	- / 2.477	- / 2.450	- / 1.900	Continuing	Continuing
<i>Subtotal: ALRE - Electromagnetic Aircraft Launch System (EMALS) (SJ306)</i>	- / -	- / -	- / -	- / 0.349	- / -	- / 0.349	2 / 3.926	2 / 6.397	1 / 7.885	1 / 4.530	Continuing	Continuing
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / 0.349	- / -	- / 0.349	- / 3.926	- / 6.397	- / 7.885	- / 4.530	Continuing	Continuing
Support (All Modification Items)												
2.1) PE	- / -	- / -	- / -	- / 0.602	- / -	- / 0.602	- / 0.630	- / 0.858	- / 0.901	- / 0.426	Continuing	Continuing
2.2) ILS	- / -	- / -	- / -	- / 0.106	- / -	- / 0.106	- / 0.111	- / 0.216	- / 0.227	- / 0.126	Continuing	Continuing
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 0.708	- / -	- / 0.708	- / 0.741	- / 1.074	- / 1.128	- / 0.552	Continuing	Continuing
Installation												
<i>Modification Item 1 of 1: ALRE - Electromagnetic Aircraft Launch System (EMALS) (SJ306)</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.670	- / -	- / 0.330	- / 0.958	- / 0.370	- / 2.328
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.670	- / -	- / 0.330	- / 0.958	- / 0.370	- / 2.328
Total												
Total Cost (Procurement + Support + Installation)	0.000	-	-	1.057	-	1.057	5.337	7.471	9.343	6.040	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2017 Navy														Date: February 2016																			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3														Modification Number / Title: 3 / ALRE - Electromagnetic Aircraft Launch System (EMALS) (SJ306)																			
Modification Item 1 of 1: ALRE - Electromagnetic Aircraft Launch System (EMALS) (SJ306)																																	
Manufacturer Information																																	
Manufacturer Name: General Atomics ⁽³³⁾												Manufacturer Location: San Diego, CA																					
Administrative Leadtime (<i>in Months</i>): 3												Production Leadtime (<i>in Months</i>): 12																					
Dates	FY 2015		FY 2016		FY 2017		FY 2018		FY 2019		FY 2020		FY 2021																				
Contract Dates							Dec 2017		Dec 2018		Dec 2019		Dec 2020																				
Delivery Dates							Jun 2018		Dec 2019		Dec 2020		Dec 2021																				
Installation Information																																	
Method of Implementation: Method:: Installation Name: EMALS Installation Kits																																	
Installation Cost			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total																			
			Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																										
Prior Years			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2015			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2016			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2017			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2018			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.670																	
FY 2019			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.330																	
FY 2020			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.958																	
FY 2021			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.370																	
To Complete			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
Total			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.328																	
Installation Schedule																																	
PYS		FY 2015			FY 2016			FY 2017			FY 2018			FY 2019			FY 2020			FY 2021													
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	1	-	1	6							
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	1	1	6						
Footnotes:																																	
(32) CE 1.2.1 - Non-Recurring Engineering addresses engineering changes, obsolescence of hardware, correction of deficiencies found during integration test and development test evaluation, and to maintain cyber security compliance and field critical software updates.																																	
(33) In FY18 cost elements 1.1.5 and 1.1.6 will be procured and installed in the same year. Production Leadtime dates vary.																																	

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment						Modification Number / Title: 4 / LAMPS MK III - SRQ(KU)-4 (S1010)				
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	0.000	13.972	19.959	18.910	-	18.910	24.890	25.422	25.981	26.509	Continuing	Continuing	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	0.000	13.972	19.959	18.910	-	18.910	24.890	25.422	25.981	26.509	Continuing	Continuing	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	0.000	13.972	19.959	18.910	-	18.910	24.890	25.422	25.981	26.509	Continuing	Continuing	
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-	

Description:

LAMPS MK III is a over the horizon information dominance system with a high speed, air-to-ground, digital data link that transmits reconnaissance and other data from MH-60 helicopters to surface ships (cruisers and destroyers) to enable data, imagery, electronic support measures, communications and radar information via the Ku-band link.

Program provides for non-recurring engineering, procurement and associated installation and support of AN/SRQ-4(Ku) field install kits. This system encompasses hardware and software to transmit sensor data from the Light Airborne Multi-Purpose System (LAMPS) MK III MH-60R aircraft to the host ship classes.

The FY 2017 request funds the procurement of 5 AN/SRQ-4(Ku) field install kits and associated support and installation costs to meet the MH-60R deployment schedule.

Objective Inventory is 100 kits. (68 DDGs, 22 CGs, & 10 Shore sites). Forty kits were procured and 22 kits installed in line item 4255. Fifty-five kits will be procured and 78 kits will be installed in line item 4213. Five kits were procured with APN funding in prior years to support integration testing requirements. These kits are now available for ship install and will be installed in this line item in FY 2018.

Recurring Cost Element 1.1.1 FY 2017 increase in unit cost is due to a competitive procurement of AN/SRQ-4's as well as an increase in the unit cost due to losing the benefit from economic order quantities gained with simultaneous production buys of ARQ's via MH60R APN-1. ARQ Production buys complete in FY 2016. Since the SRQ's and ARQ's share a production line, fixed costs traditionally shared between the two program will be paid solely under the SRQ budget starting in FY 2017.

Notes for installation schedule:

1. Kits procured in Budget Line Item 4255 (FY 2014 and Prior) are being installed in this Budget Line Item commencing in FY 2015.
2. Five additional units added to prior year quantity procurement. These five kits were procured with APN funding in prior years to support integration testing requirements. These kits are now available for ship install and will be installed in this line item in FY 2018.
3. Installations are subject to changes with ship availability schedules.
4. Installation unit costs have been updated to reflect estimates based on actual install costs.
5. The year-to-year unit installation cost varies significantly exceeding the projected yearly inflation rate. The varying unit cost is due to the hardware installation cost being dependent on quantity, location (i.e., Japan, Norfolk, San Diego, etc.), ship class (i.e., DDG or CG), Shipyard (i.e. Bath or Ingalls), ship baseline configuration (i.e., Navigation System installed, A-Kit pre-install), and ship availability period overlaps.
6. Production lead time includes pre-installation checkouts, kitting with other installation hardware and drawings, and time to ship the hardware to the installation site.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment							Modification Number / Title: 4 / LAMPS MK III - SRQ(KU)-4 (S1010)			
Models of Systems Affected: LAMPS MK III			Modification Type: Non-Organic					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: LAMPS MK III - SRQ(KU)-4 (S1010)</i>													
B Kits													
Recurring													
1.1.1) SRQ(KU)-4 - NonOrganic ⁽³⁴⁾	23 / 0.000	4 / 5.039	7 / 9.977	5 / 10.166	- / -	5 / 10.166	6 / 11.847	7 / 12.554	7 / 12.793	7 / 13.036	12 / 25.014	78 / 100.426	
<i>Subtotal: Recurring</i>	- / 0.000	- / 5.039	- / 9.977	- / 10.166	- / -	- / 10.166	- / 11.847	- / 12.554	- / 12.793	- / 13.036	- / 25.014	- / 100.426	
Non-Recurring													
1.2.1) NRE - Organic ⁽³⁵⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.774	- / 1.575	- / 1.820	- / 5.720	- / 10.889	
<i>Subtotal: Non-Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.774	- / 1.575	- / 1.820	- / 5.720	- / 10.889	
<i>Subtotal: LAMPS MK III - SRQ(KU)-4 (S1010)</i>	23 / 0.000	4 / 5.039	7 / 9.977	5 / 10.166	- / -	5 / 10.166	6 / 11.847	7 / 14.328	7 / 14.368	7 / 14.856	12 / 30.734	78 / 111.315	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 5.039	- / 9.977	- / 10.166	- / -	- / 10.166	- / 11.847	- / 14.328	- / 14.368	- / 14.856	- / 30.734	- / 111.315	
Support (All Modification Items)													
2.1) Data ⁽³⁶⁾	- / -	- / 0.462	- / 0.471	- / 0.492	- / -	- / 0.492	- / 0.543	- / 0.588	- / 0.507	- / 0.480	Continuing	Continuing	
2.2) Support Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.092	- / 1.113	- / 1.133	- / 1.156	Continuing	Continuing	
2.3) ILS	- / -	- / 1.188	- / 1.411	- / 1.311	- / -	- / 1.311	- / 1.314	- / 1.334	- / 1.382	- / 1.405	Continuing	Continuing	
2.4) Production Engineering	- / -	- / 0.948	- / 0.967	- / 0.899	- / -	- / 0.899	- / 1.502	- / 1.589	- / 1.874	- / 1.907	Continuing	Continuing	
2.5) Acceptance Test & Evaluation	- / -	- / 0.062	- / 0.060	- / 0.055	- / -	- / 0.055	- / 0.056	- / 0.114	- / 0.196	- / 0.199	Continuing	Continuing	
2.6) GFE	- / -	- / 0.462	- / 0.269	- / 0.261	- / -	- / 0.261	- / 0.280	- / 0.286	- / 0.291	- / 0.296	Continuing	Continuing	
2.7) Training Equipment ⁽³⁷⁾	- / -	- / -	- / 0.849	- / -	- / -	- / -	- / 0.674	- / 0.238	- / -	- / -	- / -	- / 1.761	
<i>Subtotal: Support</i>	- / 0.000	- / 3.122	- / 4.027	- / 3.018	- / -	- / 3.018	- / 5.461	- / 5.262	- / 5.383	- / 5.443	Continuing	Continuing	
Installation													
<i>Modification Item 1 of 1: LAMPS MK III - SRQ(KU)-4 (S1010)</i>	- / 0.000	- / 5.811	- / 5.955	- / 5.726	- / -	- / 5.726	- / 7.582	- / 5.832	- / 6.230	- / 6.210	- / 24.317	- / 67.663	
<i>Subtotal: Installation</i>	- / 0.000	- / 5.811	- / 5.955	- / 5.726	- / -	- / 5.726	- / 7.582	- / 5.832	- / 6.230	- / 6.210	- / 24.317	- / 67.663	
Total													
Total Cost (Procurement + Support + Installation)	0.000	13.972	19.959	18.910	-	18.910	24.890	25.422	25.981	26.509	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2017 Navy												Date: February 2016																		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment								Modification Number / Title: 4 / LAMPS MK III - SRQ(KU)-4 (S1010)																		
Modification Item 1 of 1: LAMPS MK III - SRQ(KU)-4 (S1010)																														
Manufacturer Information																														
Manufacturer Name: L3								Manufacturer Location: Salt Lake City, UT																						
Administrative Leadtime (in Months): 8								Production Leadtime (in Months): 21																						
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021																							
Contract Dates	Jun 2015	Jun 2016																												
Delivery Dates	Mar 2017	Mar 2018																												
Manufacturer Name: TBD (Competitive Procurement) (38)								Manufacturer Location: TBD (Competitive Procurement)																						
Administrative Leadtime (in Months): 5								Production Leadtime (in Months): 25																						
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021																							
Contract Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021																							
Delivery Dates			Apr 2019	Apr 2020	Apr 2021	Apr 2022	Apr 2023																							
Installation Information																														
Method of Implementation: NAWCAD St. Inigoes Installation Team:: Installation Name: AN/SRQ-4 Installations																														
Installation Cost			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total																
			Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)															
Prior Years			- / -	7 / 5.811	8 / 5.955	3 / 2.454	- / 0.000	3 / 2.454	5 / 3.791	- / -	- / -	- / -	- / 0.000	23 / 18.011																
FY 2015			- / -	- / -	- / -	4 / 3.272	- / -	4 / 3.272	- / -	- / -	- / -	- / -	- / -	4 / 3.272																
FY 2016			- / -	- / -	- / -	- / -	- / -	- / -	5 / 3.791	2 / 2.333	- / -	- / -	- / -	7 / 6.124																
FY 2017			- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.499	2 / 2.492	- / -	- / -	5 / 5.991																
FY 2018			- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.738	3 / 3.105	- / -	- / -	6 / 6.843																
FY 2019			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.105	4 / 3.242	4 / 3.242	7 / 6.347																
FY 2020			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 5.674																
FY 2021			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 5.674																
To Complete			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 9.727																
Total			- / -	7 / 5.811	8 / 5.955	7 / 5.726	- / -	7 / 5.726	10 / 7.582	5 / 5.832	5 / 6.230	6 / 6.210	30 / 24.317	78 / 67.663																
Installation Schedule																														
PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				TC	Tot
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	-	-	3	-	4	-	3	2	3	1	2	2	2	3	2	1	1	1	2	2	-	1	2	3	-	1	2	30	78	
Out	-	-	3	-	4	-	3	2	3	1	2	2	2	3	2	1	1	1	2	2	-	1	2	3	-	1	2	30	78	

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Exhibit P-3a, Individual Modification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3	P-1 Line Item Number / Title: 4213 / Aircraft Support Equipment	Modification Number / Title: 4 / LAMPS MK III - SRQ(KU)-4 (S1010)
Footnotes:		
(34) Recurring Cost Element 1.1.1 FY 2017 increase in unit cost is due to a competitive procurement of AN/SRQ-4's as well as an increase in the unit cost due to losing the benefit from economic order quantities gained with simultaneous production buys of ARQ's via MH60R APN-1. Production buys completed in FY 2016. Since the SRQ's and ARQ's shared a production line, fixed costs traditionally shared between the two programs will be paid solely under the SRQ budget starting in FY 2017. FY 2016 quantity decrease of one unit due to an increase of four installs scheduled for FY 2016 due to ship availability.		
(35) Cost Element 1.2.1, NRE funding supports individual Engineering Change Proposals to correct expected obsolescence issues.		
(36) Cost Element 2.1, Data funding, supports ship installation documentation and Ship Change Proposals on multiple CG and DDG class ships scheduled for ship check and modernization changes as part of the fielding plan. Cost Element 2.1 increased from FY 2016 to FY 2017 due to the change of the Cruiser (CG) / Destroyer (DDG) mix of installs. The data line item provides the funds to procure the data packages a year prior to the ship installations. Data packages are significantly more expensive in CGs as compared to DDGs due to the age and individuality of the CGs.		
(37) FY16 training funding is for modifying the curriculum to incorporate ECPs and installing hardware to support the standup of an AN/SRQ-4 trainer.		
(38) FY 2017 production lead time increased due to the risk associated with the possibility of a new contractor.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy										Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment					P-1 Line Item Number / Title: 4226 / Meteorological 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		Item MDAP/MAIS Code(s): N/A													
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total			
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	81.879	12.825	15.090	29.253	-	29.253	27.020	22.605	18.837	19.802	-	227.311			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	81.879	12.825	15.090	29.253	-	29.253	27.020	22.605	18.837	19.802	-	227.311			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	81.879	12.825	15.090	29.253	-	29.253	27.020	22.605	18.837	19.802	-	227.311			
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>															
Initial Spares (\$ in Millions)	-	2.006	0.267	0.169	-	0.169	0.240	0.266	0.218	0.223	Continuing	Continuing			
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-			
Description:															
The increase from the FY 2016 to the FY 2017 budget is for the Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV) Program's upgrades/backfits and Glider replacement units; the continuation of upgrades to the environmental satellite data receivers/processers; and the Meteorological and Oceanographic Surface-based Atmospheric Sensing Capability (METOC SASC) family of systems. The increase in funding is for the procurement of submarine launched LBS-AUV vehicles and shipsets.															
Decrease in Meteorological Equipment by \$0.47M as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.															
This item provides new and replacement meteorological equipment for Navy and Marine Corps Air Stations, Navy ships, USMC Operational Forces units and other activities required to provide weather observations and provide safety of flight capabilities. It also provides new Intelligence Preparation of the Operational Environment (IPOE) equipment for submarines. The procurement has been coordinated with other DOD and civilian agencies. Equipment is funded under the following programs:															
[P40A / SP051 Satellite Receiver Upgrades (Space)]: Environmental satellite receivers used to receive and process remotely sensed data from the Defense Meteorological Satellite Program (DMSP) satellites, the National Oceanic and Atmospheric Administration (NOAA) satellites, the Joint Polar-orbiting Satellite System (JPSS) formerly National Polar-orbiting Operational Environmental Satellite System (NPOESS) satellites, the Geostationary Operational Environmental Satellites (GEOSAT), the GEOSAT Follow-On satellite, and the Geostationary Satellite Families (GOES-R). The evolutionary upgrades will enhance weather service capabilities to receive and pre-process additional environmental satellite data, comply with open systems architecture standards, and provide for antenna and processor replacement. Specifically, in the remote sensing efforts, integration of next generation of polar and geostationary orbiting satellite families and new sensors of opportunity are incorporated in hardware design and software development into existing systems.															
[P40A / SP400 METOC Satellite Data Exploitation Readiness]: Readiness for planned next-generation polar-orbiting and geostationary satellites will require the procurement and installation of software and hardware products necessary to accommodate the significantly increased data stream from advanced instruments as compared with the previous Defense Meteorological Satellite Program, Polar-orbiting Operational Environmental Satellite, and geostationary satellites. The Navy Production Centers at Fleet Numerical Meteorology and Oceanography Center (FLENUMMETOCEN), Monterey, CA, and the Naval Oceanographic Office (NAVOCEANO), Stennis Space Center, MS, require upgrades of their Storage Area Networks (SAN) and increased data processing capability for their assimilation, analysis and forecasting systems. Procurements concluded in FY16.															

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment		P-1 Line Item Number / Title: 4226 / Meteorological 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	Item MDAP/MAIS Code(s): N/A	
[P40A / SP550 METOC SASC Upgrades]: Procurement of Government Off-The-Shelf/Commercial Off-The-Shelf hardware, and associated software upgrades for the 67 fielded Automated Surface Observing Systems (ASOS) and the 9 fielded Supplemental Weather Radars (SWR). Both atmospheric sensing systems are essential for aviation safety, Naval Aviation operations and resource protection. ASOS procurements under this project will provide required system upgrades as required by the National Weather Service Interagency Agreement.		
[P40A / SP600 Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV)]: [P40A / SP600 Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV)]: Procures Unmanned Undersea Vehicle ocean sensor systems. These include electrical powered, short duration (~days) Autonomous Undersea Vehicles (AUV) and long duration (~months) buoyancy driven ocean Gliders which carry sensors that characterize the ocean bottom (bathymetry, imagery, etc.) and sense ocean volume parameters (conductivity, temperature, depth, optical clarity, currents, etc.). The AUV submarine variant (AUV(S)) will provide IPOE payload capabilities for submarine launched missions. The AUVs are preprogrammed with mission profiles and once launched are totally autonomous. The Ocean Gliders are controlled remotely from the Naval Oceanographic Office (NAVOCEANO), Stennis Space Center, MS from the Glider Operations Center (GOC).		
[P40A / SP190 TESS/NITES]: Tactical Environmental Support System/Naval Integrated Tactical Environmental System (TESS/NITES), procurement of Mobile Tactical Systems technology refresh and rapidly deploy highly specialized Government Owned Tactical Software to USN and USMC forward deployed units around the globe. TESS/NITES systems provide support to aviation flight safety, operations strike missions, shipboard safety of navigation, USMC ground forces, special operations, and multi-spectral asymmetric warfare.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy							Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment				P-1 Line Item Number / Title: 4226 / Meteorological 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		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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	Meteorological Equipment	P-5a		- / 81.879	- / 12.825	- / 15.090	- / 29.253	- / -	- / 29.253
P-40	Total Gross/Weapon System Cost			- / 81.879	- / 12.825	- / 15.090	- / 29.253	- / -	- / 29.253

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. 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 primary focus of the FY 2017 request is the Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV) Program's upgrades/backfits and Glider replacement units; the continuation of upgrades to the environmental satellite data receivers/processers; and the Meteorological and Oceanographic Surface-based Atmospheric Sensing Capability (METOC SASC) family of systems. The increase in funding is for the procurement of submarine launched LBS-AUV vehicles and shipsets.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy														Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3					P-1 Line Item Number / Title: 4226 / Meteorological Equipment									Aggregated Items Title: Meteorological Equipment						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 (\$ K)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
1) SP051 Satellite Receiver Upgrades (Space) ⁽¹⁾																				
1.1) AN/FMQ-17 Satellite Receiver Upgrade Kit ^(†)	A		69.000	11	0.759	72.000	7	0.504	73.333	3	0.220	74.833	6	0.449	-	-	-	74.833	6	0.449
1.2) AN/SMQ-11 Satellite Receiver Upgrade Kit ^(†)	A		50.636	22	1.114	53.000	1	0.053	-	-	-	54.100	9	0.487	-	-	-	54.100	9	0.487
1.3) AN/FMQ-17 Antenna Positioner Upgrade Kit ^(†)	A		-	-	-	-	-	-	245.000	1	0.245	-	-	-	-	-	-	-	-	-
1.4) AN/SMQ-11 Antenna Pedestal Upgrade Kit ^(†)	A		171.292	24	4.111	189.667	3	0.569	193.500	4	0.774	197.333	6	1.184	-	-	-	197.333	6	1.184
Subtotal: 1) SP051 Satellite Receiver Upgrades (Space)			-	-	5.984	-	-	1.126	-	-	1.239	-	-	2.120	-	-	-	-	-	2.120
2) SP200 Hazardous Weather Detection & Display Capability (HWDDC)																				
2.1) SPS-48E/G Variant	A		230.000	10	2.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) SP200 Hazardous Weather Detection & Display Capability (HWDDC)			-	-	2.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3) SP400 METOC Satellite Data Exploitation Readiness ⁽²⁾																				
3.1) FNMOC Upgrades ^(†)	A		1,117.750	4	4.471	2,113.000	1	2.113	1,114.000	1	1.114	-	-	-	-	-	-	-	-	
3.2) NAVOCEANO Upgrades ^(†)	A		589.250	4	2.357	1,382.000	1	1.382	902.000	1	0.902	-	-	-	-	-	-	-	-	
Subtotal: 3) SP400 METOC Satellite Data Exploitation Readiness			-	-	6.828	-	-	3.495	-	-	2.016	-	-	-	-	-	-	-	-	
4) SP550 METOC SASC Upgrades																				
4.1) ASOS Upgrades ^{(3)(†)}	A		44.124	193	8.516	34.037	82	2.791	55.880	50	2.794	48.771	48	2.341	-	-	-	48.771	48	2.341
4.2) SWR Upgrades ^{(4)(†)}	A		35.674	46	1.641	60.647	17	1.031	51.000	16	0.816	58.533	15	0.878	-	-	-	58.533	15	0.878
Subtotal: 4) SP550 METOC SASC Upgrades			-	-	10.157	-	-	3.822	-	-	3.610	-	-	3.219	-	-	-	-	-	3.219
5) SP600 Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV) ⁽⁵⁾																				
5.1) Littoral Battlespace Sensors - Gliders (LBS-G) ^(†)	A		165.493	142	23.500	-	-	-	198.000	23	4.554	200.000	20	4.000	-	-	-	200.000	20	4.000
5.2) Littoral Battlespace Sensors - Autonomous	A		3,071.250	4	12.285	2,600.000	1	2.600	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy														Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3					P-1 Line Item Number / Title: 4226 / Meteorological Equipment									Aggregated Items Title: Meteorological Equipment						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Undersea Vehicles (LBS-AUV) ^(†)																				
5.3) Autonomous Undersea Vehicles (Submarine) AUV(S) ^(†)	A		-	-	-	-	-	-	-	-	-	2,060.000	4	8.240	-	-	-	2,060.000	4	8.240
5.4) Littoral Battlespace Sensors - (LBS-AUV) Shipset	A		1,950.000	2	3.900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.5) Autonomous Undersea Vehicles (Submarine) - AUV(S) Shipset v1 ^(†)	A		-	-	-	-	-	-	-	-	-	3,030.000	3	9.090	-	-	-	3,030.000	3	9.090
5.8) UUV Upgrades/ Backfits	A		-	-	1.015	-	-	0.810	-	-	0.300	-	-	0.350	-	-	-	-	-	0.350
<i>Subtotal: 5) SP600 Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV)</i>			-	-	40.700	-	-	3.410	-	-	4.854	-	-	21.680	-	-	-	-	-	21.680
6) METMF (R) NEXGEN																				
6.1) METMF (R) NEXGEN/Subsystems	A		1,542.857	7	10.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 6) METMF (R) NEXGEN</i>			-	-	10.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7) SP555 Production Support																				
7.1) TESS/NITES	A		-	-	-	-	-	-	-	-	-	0.121	-	-	-	-	-	-	-	-
7.2) Satellite Receiver Upgrades	A		-	-	0.271	-	-	0.089	-	-	0.083	-	-	0.082	-	-	-	-	-	0.082
7.3) LBS-UUV	A		-	-	2.142	-	-	0.250	-	-	0.208	-	-	0.766	-	-	-	-	-	0.766
<i>Subtotal: 7) SP555 Production Support</i>			-	-	2.413	-	-	0.339	-	-	0.412	-	-	0.848	-	-	-	-	-	0.848
8) SP776 Non-FMP																				
8.1) Satellite Receiver Upgrades	A		-	-	0.822	-	-	0.416	-	-	0.329	-	-	0.611	-	-	-	-	-	0.611
<i>Subtotal: 8) SP776 Non-FMP</i>			-	-	0.822	-	-	0.416	-	-	0.329	-	-	0.611	-	-	-	-	-	0.611
9) SP777 FMP																				
9.1) Satellite Receiver Upgrades	A		-	-	1.875	-	-	0.217	-	-	0.251	-	-	0.775	-	-	-	-	-	0.775
<i>Subtotal: 9) SP777 FMP</i>			-	-	1.875	-	-	0.217	-	-	0.251	-	-	0.775	-	-	-	-	-	0.775
10) SP190 TESS/NITES⁽⁶⁾																				
10.1) Mobile Tactical System ^(†)	A		-	-	-	-	-	-	-	-	4.867	457	2.224	-	-	-	-	-	-	-
10.2) Hardware Components ^(†)	A		-	-	-	-	-	-	-	-	1.007	154	0.155	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy													Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3					P-1 Line Item Number / Title: 4226 / Meteorological Equipment								Aggregated Items Title: Meteorological Equipment						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO				
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)		
<i>Subtotal: 10) SP190 TESS/NITES</i>			-	-	0.000	-	-	-	-	-	2.379	-	-	-	-	-	-		
Total			-	-	81.879	-	-	12.825	-	-	15.090	-	-	29.253	-	-	29.253		
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) FY17-FY21 Satellite Receiver Upgrade quantities represent the number of sites/platforms upgraded annually.																			
(2) Quantities and unit costs represent upgrades to the super computers at the two METOC Production Centers: the Fleet Numerical Meteorology and Oceanography Center (FLENUMMETOCEN) and the Naval Oceanographic Office (NAVOCEANO). Upgrades consist of data processing and communications hardware and vary annually depending on the launch of various Navy, joint, interagency, and international METOC satellite systems. Unit costs represent the average unit cost of each planned Hardware/Software procurement or refresh procured from various vendors which varies based on subsystem, site or platform. NAVOCEANO and FLENUMMETOCEN procure computer system hardware through SPAWAR 2.0 via 8a vendor contracts.																			
(3) Quantities represent the number of sites upgraded annually for ASOS and SWR Upgrades; multiple upgrades may occur at a single site in a given year. Upgrades are GOTS/COTS hardware and associated software for installed Automated Surface Observing System (ASOS). Unit costs represent the average unit cost of each planned Hardware/Software procurement or refresh which varies based on subsystem, site or platform. ASOS Upgrades - FY 2017 quantities represent 48 ACU Phase 1 (hardware and software) upgrades.																			
(4) Quantities represent the number of sites upgraded annually for ASOS and SWR Upgrades; multiple upgrades may occur at a single site in a given year. Upgrades are GOTS/COTS hardware and associated software for installed Automated Surface Observing System (ASOS). Unit costs represent the average unit cost of each planned Hardware/Software procurement or refresh which varies based on subsystem, site or platform. SWR Upgrades - FY 2017 quantities represent 5 RCU Replacements and 10 Digital Stalo upgrades.																			
(5) Littoral Battlespace Sensors - Autonomous Undersea Vehicles (LBS-AUV) are broken out between AUV units and AUV Shipsets. Shipsets consist of the operation van, maintenance van, and launch & recovery system. AUV (Submarine) launched variants include both AUV(Submarine) units and AUV(Submarine) shipsets. AUV(S) shipsets consist of operational and maintenance equipment including launch, mooring and submarine modification kits. Littoral Battlespace Sensors - Gliders (LBS-G) FY16 - FY21 quantities represent replacement units. LBS-UUV Upgrades/Backfits represent AUV and Glider system improvements and via back-fits and forward-fits.																			
(6) TESS/NITES Mobile Tactical Systems and hardware components are loaded and configured with specialized GOTS METOC Tactical Decision Aid software and forward deployed with USN and USMC forward operating units afloat and ashore.																			

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4226 / Meteorological Equipment					Aggregated Items: Meteorological 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) SP051 Satellite Receiver Upgrades (Space)												
1.1) AN/FMQ-17 Satellite Receiver Upgrade Kit		2015	Raytheon / Indianapolis	C / CPFF	SPAWAR	Feb 2015	Jun 2015	7	72.000	Y		Jun 2011
1.1) AN/FMQ-17 Satellite Receiver Upgrade Kit		2016	Raytheon / Indianapolis	C / CPFF	SPAWAR	Feb 2016	Jun 2016	3	73.333	Y		Jun 2011
1.1) AN/FMQ-17 Satellite Receiver Upgrade Kit		2017	Raytheon / Indianapolis	C / CPFF	SPAWAR	Feb 2017	Jun 2017	6	74.833	Y		Jun 2011
1.2) AN/SMQ-11 Satellite Receiver Upgrade Kit		2015	Raytheon / Indianapolis.	C / CPFF	SPAWAR	Feb 2015	Jun 2015	1	53.000	Y		Jun 2011
1.2) AN/SMQ-11 Satellite Receiver Upgrade Kit		2017	Raytheon / Indianapolis.	C / CPFF	SPAWAR	Feb 2017	Jun 2017	9	54.100	Y		Jun 2011
1.3) AN/FMQ-17 Antenna Positioner Upgrade Kit		2016	Raytheon / Indianapolis	C / CPFF	SPAWAR	Feb 2016	Jun 2016	1	245.000	Y		Jun 2011
1.4) AN/SMQ-11 Antenna Pedestal Upgrade Kit		2015	Raytheon / Indianapolis.	C / CPFF	SPAWAR	Feb 2015	Jun 2015	3	189.667	Y		Jun 2011
1.4) AN/SMQ-11 Antenna Pedestal Upgrade Kit		2016	Raytheon / Indianapolis	C / CPFF	SPAWAR	Feb 2016	Jun 2016	4	193.500	Y		Jun 2011
1.4) AN/SMQ-11 Antenna Pedestal Upgrade Kit		2017	Raytheon / Indianapolis	C / CPFF	SPAWAR	Feb 2017	Jun 2017	6	197.333	Y		Jun 2011
3) SP400 METOC Satellite Data Exploitation Readiness												
3.1) FNMO Upgrades		2015	VARIOUS / VARIOUS	C / FFP	SPAWAR	Apr 2015	May 2015	1	2,113.000	Y		
3.1) FNMO Upgrades		2016 ⁽⁷⁾	UNKNOWN / UNKNOWN	C / FFP	SPAWAR	May 2016	Jun 2016	1	1,114.000	Y		
3.2) NAVOCEANO Upgrades		2015	VARIOUS / VARIOUS	C / FFP	SPAWAR	Apr 2015	Jun 2015	1	1,382.000	Y		
3.2) NAVOCEANO Upgrades		2016 ⁽⁸⁾	UNKNOWN / UNKNOWN	C / FFP	SPAWAR	May 2016	Jun 2016	1	902.000	Y		
4) SP550 METOC SASC Upgrades												
4.1) ASOS Upgrades ⁽³⁾		2015	National Weather Service (NWS) / MD	MIPR	NWS	Dec 2014	Apr 2015	82	34.037	Y		
4.1) ASOS Upgrades ⁽³⁾		2016	National Weather Service (NWS) / MD	MIPR	NWS	Dec 2015	Apr 2016	50	55.880	Y		
4.1) ASOS Upgrades ⁽³⁾		2017	National Weather Service (NWS) / MD	MIPR	NWS	Dec 2016	Apr 2017	48	48.771	Y		
4.2) SWR Upgrades ⁽⁴⁾		2015	Enterprise Electronics Corp. / AL	C / FP	SSC LANT	Dec 2014	May 2015	17	60.647	Y		Nov 2010
4.2) SWR Upgrades ⁽⁴⁾		2016	Enterprise Electronics Corp. / AL	C / FP	SSC LANT	Dec 2015	May 2016	16	51.000	Y		Nov 2010
4.2) SWR Upgrades ⁽⁴⁾		2017	Enterprise Electronics Corp. / AL	C / FP	SSC LANT	Dec 2016	May 2017	15	58.533	Y		Nov 2010
5) SP600 Littoral Battlespace Sensors - Unmanned Undersea Vehicles (LBS-UUV)												
5.1) Littoral Battlespace Sensors - Gliders (LBS-G)		2016	Teledyne Brown Eng / AL	C / CPIF	SPAWAR	Mar 2016	Feb 2017	23	198.000	Y		Apr 2008

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4226 / Meteorological Equipment					Aggregated Items: Meteorological 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
5.1) Littoral Battlespace Sensors - Gliders (LBS-G)		2017	Teledyne Brown Eng / AL	C / CPIF	SPAWAR	Mar 2017	Feb 2018	20	200.000	Y		Apr 2008
5.2) Littoral Battlespace Sensors - Autonomous Undersea Vehicles (LBS-AUV)		2015	Hydroid, Inc. / MA.	C / FFP	SPAWAR	Feb 2015	Jan 2016	1	2,600.000	Y		Oct 2009
5.3) Autonomous Undersea Vehicles (Submarine) AUV(S)		2017 ⁽⁹⁾	Hydroid, Inc / MA	C / FFP	SPAWAR	Jan 2017	Jul 2018	4	2,060.000	N	Jan 2017	
5.5) Autonomous Undersea Vehicles (Submarine) - AUV(S) Shipset v1		2017	Hydroid, Inc. / MA	C / CPFF	SPAWAR	Jan 2017	Jul 2018	3	3,030.000	N	Jan 2017	
10) SP190 TESS/NITES												
10.1) Mobile Tactical System		2016	UNKNOWN / UNKNOWN	C / FP	SSC PAC	Mar 2016	Jul 2016	457	4.867	Y		Dec 2015
10.2) Hardware Components		2016	Unkown / Unknown	C / FP	SSC PAC	Mar 2016	Jul 2016	154	1.007	N	Mar 2016	Dec 2015

Footnotes:

(7) The vendors for equipment and software for FNMOC super computer systems include Dell, McAfee, Mellanox, NetApp, Red Hat ESI, IBM ESI.

(8) The vendors for equipment and software for NAVOCEANO super computer systems include Panasas, Cisco 8a, Dell 8a, Red Hat ESI, Oracle ESI.

(9) LBS AUV(S) delivery of first unit will have an 18 month lead time from date of award.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment					P-1 Line Item Number / Title: 4242 / DCRS/DPL								
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		Item MDAP/MAIS Code(s): N/A											
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	95.735	1.415	0.638	0.632	-	0.632	0.656	0.668	0.689	0.705	Continuing	Continuing	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	95.735	1.415	0.638	0.632	-	0.632	0.656	0.668	0.689	0.705	Continuing	Continuing	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	95.735	1.415	0.638	0.632	-	0.632	0.656	0.668	0.689	0.705	Continuing	Continuing	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>													
Initial Spares (\$ in Millions)	-	0.126	0.142	0.155	-	0.155	0.083	0.044	-	-	-	0.550	
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-	
Description:													
Digital Camera Receiving Station/Afloat Multi-Media Production System (DCRS/AMMPS) The Naval Air Systems Command is tasked to support digital imagery shipboard photographic requirements (Chief of Naval Operations (CNO) Memo Ser 09B/2U2501983 of 23 Oct 92 applies). In FY 2013, AMMPS transitioned to the Naval Sea Systems Command and FY 2015 was the last year of funding for AMMPS in this budget.													
The DCRS is a combat system located in the Carrier Intelligence Center that processes classified Bomb Hit Assessment and target imagery. DCRS supports near real-time over-the-horizon imagery transfer, as well as post-mission playback of imagery obtained from aircraft sensors. DCRS is a one rack system with a multiple PC workstations for video editing and playback, media receptacles for aircraft data transfer devices, and communications equipment to support Fast Tactical Imagery. Equipment and software are updated through field change/tech refresh installations scheduled every three years for each Carrier Vessel/Carrier Vessel Nuclear (CV/CVN).													
Afloat Multimedia Production System (AMMPS) - is an afloat multimedia production capability for surface forces. It is an unclassified system used to ensure National Command Authority, DoD, Joint and Navy commanders, the Carrier Strike Group (CSG), Expeditionary Strike Group (ESG), and Amphibious Ready Group (ARG) are provided with mission essential media products. The system processes information for incidents and accidents at sea, shipboard investigations, medical records, combat camera, safety, training, and Public Affairs Office functions and produces media of real world events (e.g. drug interdiction programs, humanitarian relief efforts, shipboard and flight operations) viewed by the CNO, Secretary of the Navy, Joint Chiefs of Staff, National Military Command Center, and the White House. Digital imagery can be quickly disseminated via shipboard communication systems to support decision makers at all levels. It comprises seven public affairs production subsystems providing media services to the crew, their families and external customers.													

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy							Date: February 2016																																							
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment				P-1 Line Item Number / Title: 4242 / DCRS/DPL																																										
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		Item MDAP/MAIS Code(s): N/A																																												
<table border="1"> <thead> <tr> <th colspan="3">Exhibits Schedule</th> <th colspan="2">Prior Years</th> <th>FY 2015</th> <th>FY 2016</th> <th>FY 2017 Base</th> <th>FY 2017 OCO</th> <th>FY 2017 Total</th> </tr> <tr> <th>Exhibit Type</th> <th>Title*</th> <th>Subexhibits</th> <th>ID CD</th> <th>Quantity / Total Cost (Each) / (\$ M)</th> </tr> </thead> <tbody> <tr> <td>P-40a</td> <td>DCRS/AMMPS</td> <td></td> <td></td> <td>- / 95.735</td> <td>- / 1.415</td> <td>- / 0.638</td> <td>- / 0.632</td> <td>- / -</td> <td>- / 0.632</td> </tr> <tr> <td>P-40</td> <td>Total Gross/Weapon System Cost</td> <td></td> <td></td> <td>- / 95.735</td> <td>- / 1.415</td> <td>- / 0.638</td> <td>- / 0.632</td> <td>- / -</td> <td>- / 0.632</td> </tr> </tbody> </table>							Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Exhibit Type	Title*	Subexhibits	ID CD	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	DCRS/AMMPS			- / 95.735	- / 1.415	- / 0.638	- / 0.632	- / -	- / 0.632	P-40	Total Gross/Weapon System Cost			- / 95.735	- / 1.415	- / 0.638	- / 0.632	- / -	- / 0.632
Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total																																					
Exhibit Type	Title*	Subexhibits	ID CD	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	DCRS/AMMPS			- / 95.735	- / 1.415	- / 0.638	- / 0.632	- / -	- / 0.632																																					
P-40	Total Gross/Weapon System Cost			- / 95.735	- / 1.415	- / 0.638	- / 0.632	- / -	- / 0.632																																					
<p>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>																																														

Justification:

The FY 2017 funding request was reduced by \$25 thousand as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

FY 2017 funds the baseline program for DCRS. DCRS supports near real-time over-the-horizon imagery transfer, as well as post-mission playback of imagery obtained from aircraft sensors.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy													Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3					P-1 Line Item Number / Title: 4242 / DCRS/DPL								Aggregated Items Title: DCRS/AMMPS							
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)			
1) DCRS/DPL																				
1.1) SX020 Afloat Multi-Media Production System Workcenter ⁽¹⁾	A		141,157.89	76	10.728	133,000.00	3	0.399	-	-	-	-	-	-	-	-	-	-		
1.2) SX021 Digital SLR Color Camera	A		16,347.31	167	2.730	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.3) SX100 Digital Camera Receiving Station ⁽²⁾	A		164,231.88	69	11.332	155,333.33	3	0.466	158,333.33	3	0.475	153,666.67	3	0.461	-	-	153,666.67	3	0.461	
1.4) AMMPS Other Costs	A		-	-	31.894	-	-	0.250	-	-	-	-	-	-	-	-	-	-		
1.5) DCRS Other Costs	A		-	-	39.051	-	-	0.300	-	-	0.163	-	-	0.171	-	-	-	0.171		
Subtotal: 1) DCRS/DPL			-	-	95.735	-	-	1.415	-	-	0.638	-	-	0.632	-	-	-	0.632		
Total			-	-	95.735	-	-	1.415	-	-	0.638	-	-	0.632	-	-	-	0.632		

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

Footnotes:

(1) AMMPS was formerly known as Digital Photo Lab (DPL) and FY 2015 was the last year of funding.

(2) The DCRS unit cost increases in FY18 and out are due to procuring two unique configurations; one rack assembly (Nimitz class) and two rack assembly (Ford class).

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment										P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures			
ID Code (A=Service Ready, B=Not Service Ready): A										Program Elements for Code B Items: N/A			
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A											
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		412.217	23.152	14.098	29.097	-	29.097	24.491	8.362	5.004	5.104	0.003	521.528
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		412.217	23.152	14.098	29.097	-	29.097	24.491	8.362	5.004	5.104	0.003	521.528
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		412.217	23.152	14.098	29.097	-	29.097	24.491	8.362	5.004	5.104	0.003	521.528
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>													
Initial Spares (\$ in Millions)		-	8.142	1.368	0.486	-	0.486	0.500	0.247	-	-	-	10.743
Flyaway Unit Cost (\$ in Dollars)		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)		-	-	-	-	-	-	-	-	-	-	-	-
Description:													
Airborne Mine Countermeasures (AMCM) Equipment is currently deployed on MH-53E helicopters to counter the threat of sea mines. The MH-60S helicopter will be adapted for the AMCM mission in support of the development of an Organic Fleet AMCM program. The equipment is divided into three categories -- minesweeping, minehunting and mine neutralization. (1) Minesweeping is performed by mechanical or influence sweeps. In mechanical sweeping, the mine mooring is severed by the sweep gear allowing the mine to float to the surface where it is destroyed. In influence sweeping, a magnetic or acoustic field which simulates the magnetic/acoustic signature of a ship is introduced into the water. This field causes the mine mechanism to actuate. (2) In minehunting, the object is to actually locate and classify mine-like objects (usually by means of high resolution sonar). (3) Then neutralize mines using explosive devices. AMCM squadrons currently have mechanical, magnetic, and acoustic sweeping capabilities, and mine surveillance and marking capabilities. Their mission is to locate, classify, identify and neutralize moored, surface and bottom mines.													
Current world mining threats have resulted in increased operational demand of systems to perform AMCM missions. Fleet requires increased AMCM capability to address warfighting gaps and the reliability, maintainability, and availability of critical systems to perform world-wide operations. Program provides systems to address a global threat and serve to deter placement of mines to allow ships to transit freely. Lack of AMCM capability will result in loss of the Fleet's ability to conduct freedom of maneuver, increasing risk to ships while operating in mine threat areas.													
Modifications: Funds will support the modification and product improvements of Airborne Mine Countermeasures (AMCM) systems to accommodate replacement of subsystems/components because of safety, maintainability, reliability and obsolescence issues. Engineering Change Proposals (ECPs) are analyzed, prioritized and screened to accommodate replacement of subsystems/components. Funding for this effort is designated in all fiscal years.													
AN/AQS-24 sonar is an in-service mine detection system that detects, classifies, localizes, and identifies sea mines. The sonar sensor is deployed from the MH-53E helicopter and is used against moored and bottom mines. AN/AQS-24B provides High Speed Synthetic Aperture Sonar (SAS). AN/AQS-24C provides Volume Search Capability.													
AN/ASQ-235 - Airborne Mine Neutralization System (AMNS) is a mine neutralization system that provides a remotely controlled expendable neutralizer vehicle deployed from the MH-60S and MH-53E helicopter platform to reacquire, identify, and neutralize moored or proud bottom sea mines. Note: LCS Mission Modules are procured under BLI 1601.													
AN/AES-1 Airborne Laser Mine Detection System (ALMDS) is a mine detection system that provides a light detection and ranging (LIDAR) system for rapid detection, classification, and localization of near surface sea mines. It is deployed on the MH-60S helicopter as part of the Organic Airborne Mine Countermeasures (OAMCM) suite of systems.													

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy							Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment				P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A					
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	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 / MODIFICATIONS			- / 71.622	- / 3.628	- / 3.227	- / 4.843	- / -	- / 4.843
P-5	2 / AN/AQS-24 Sonar	P-5a, P-21		- / 42.500	- / 19.524	- / 1.771	- / 18.819	- / -	- / 18.819
P-5	3 / MK-105	P-5a, P-21		- / 20.000	- / -	- / -	- / -	- / -	- / -
P-5	4 / AMNS	P-5a, P-21		- / 56.582	- / -	- / 6.800	- / 5.435	- / -	- / 5.435
P-5	5 / ALMDS [ALMDS]	P-5a, P-21		- / 106.419	- / -	- / 2.300	- / -	- / -	- / -
P-5	6 / OAMCM [OAMCM]	P-5a, P-21		- / 115.094	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 412.217	- / 23.152	- / 14.098	- / 29.097	- / -	- / 29.097

*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.

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

Justification:

The FY 2017 funding request was reduced by \$1.3 million as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

FY 2017 funding supports the baseline program which will procure eight AN/AQS-24 C upgrade kits and hardware and software upgrades for the Airborne Mine Neutralization System (AMNS) and the Airborne Laser Mine Detection System (ALMDS). Airborne Mine Countermeasures program will be fielding in FY 2017. This capability will be deployed around the world to meet the current operational mine warfare mission demand for these systems.

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures								Item Number / Title [DODIC]: 1 / MODIFICATIONS						
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				71.622		3.628		3.227		4.843		-		4.843				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				71.622		3.628		3.227		4.843		-		4.843				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				71.622		3.628		3.227		4.843		-		4.843				
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Hardware - S0020 MODIFICATIONS Cost																		
Recurring Cost																		
1.1.1) S0020 - MODIFICATION	-	-	71.622	-	-	3.628	-	-	3.227	-	-	4.843	-	-	-	-	-	4.843
<i>Subtotal: Recurring Cost</i>	-	-	71.622	-	-	3.628	-	-	3.227	-	-	4.843	-	-	-	-	-	4.843
<i>Subtotal: Hardware - S0020 MODIFICATIONS Cost</i>	-	-	71.622	-	-	3.628	-	-	3.227	-	-	4.843	-	-	-	-	-	4.843
Gross/Weapon System Cost	-	-	71.622	-	-	3.628	-	-	3.227	-	-	4.843	-	-	-	-	-	4.843

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures									Item Number / Title [DODIC]: 2 / AN/AQS-24 Sonar						
ID Code (A=Service Ready, B=Not Service Ready) :													MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total					
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				42.500		19.524		1.771		18.819		-		18.819					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				42.500		19.524		1.771		18.819		-		18.819					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				42.500		19.524		1.771		18.819		-		18.819					
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)	
Hardware - S0024 AN/AQS-24 Sonar Cost																			
Recurring Cost																			
1.1.2) AN/AQS-24B - upgrade kit ^(†)	2,115K	20	42.300	2,157K	7	15.100	-	-	-	-	-	-	-	-	-	-	-		
1.1.3) AN/AQS-24C - Upgrade kit ^(†)	-	-	0.000	-	-	-	-	-	-	2,352K	8	18.819	-	-	-	2,352K	8	18.819	
1.1.4) Training Equipment ^(†)	-	-	0.200	4,424K	1	4.424	-	-	1.296	-	-	-	-	-	-	-	-		
1.1.5) ILS/Tech Pubs	-	-	0.000	-	-	-	-	-	0.475	-	-	-	-	-	-	-	-		
<i>Subtotal: Recurring Cost</i>	-	-	<i>42.500</i>	-	-	<i>19.524</i>	-	-	<i>1.771</i>	-	-	<i>18.819</i>	-	-	-	-	<i>18.819</i>		
<i>Subtotal: Hardware - S0024 AN/AQS-24 Sonar Cost</i>	-	-	<i>42.500</i>	-	-	<i>19.524</i>	-	-	<i>1.771</i>	-	-	<i>18.819</i>	-	-	-	-	<i>18.819</i>		
Gross/Weapon System Cost	-	-	<i>42.500</i>	-	-	<i>19.524</i>	-	-	<i>1.771</i>	-	-	<i>18.819</i>	-	-	-	-	<i>18.819</i>		

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures					Item Number / Title [DODIC]: 2 / AN/AQS-24 Sonar				
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
1.1.2) AN/AQS-24B - upgrade kit ^(†)		2014	Northrop Grumman (Annapolis, MD) / Annapolis	SS / FFP	NSWC PC	Jun 2014	Jun 2015	20	2,115K	Y		
1.1.2) AN/AQS-24B - upgrade kit ^(†)		2015	Northrop Grumman (Annapolis, MD) / Annapolis	SS / FFP	NSWC PC	Jun 2015	Jun 2016	7	2,157K	Y		
1.1.3) AN/AQS-24C - Upgrade kit ^(†)		2017	Northrop Grumman (Annapolis, MD) / Annapolis	C / FFP	NAVSEA	Mar 2017	Mar 2018	8	2,352K	Y		
1.1.4) Training Equipment ^(†)		2015	Northrop Grumman (Annapolis, MD) / Annapolis	SS / FFP	NSWC PC	Jun 2015	Jun 2016	1	4,424K	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy																					Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures										Item Number / Title [DODIC]: 2 / AN/AQS-24 Sonar																	
Cost Elements (Units in Each)							Fiscal Year 2014												Fiscal Year 2015																		
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	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	B A L A N C E							
1.1.2) AN/AQS-24B - upgrade kit							1	2014	NAVY	20	-	20																			2	2	2	2	12		
1.1.3) AN/AQS-24C - Upgrade kit							1	2015	NAVY	7	-	7																						7			
1.1.4) Training Equipment							2	2017	NAVY	8	-	8																						8			
							3	2015	NAVY	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	1

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Exhibit P-21, Production Schedule: PB 2017 Navy																					Date: February 2016																			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures										Item Number / Title [DODIC]: 2 / AN/AQS-24 Sonar																				
Cost Elements (Units in Each)							Fiscal Year 2016												Fiscal Year 2017																					
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	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	B A L A N C E										
1.1.2) AN/AQS-24B - upgrade kit							1	2014	NAVY	20	8	12	2	2	2	2	2	2																-						
1							1	2015	NAVY	7	-	7	-	-	-	-	-	-	-	2	2	2	2	1									-							
1.1.3) AN/AQS-24C - Upgrade kit							2	2017	NAVY	8	-	8																					8							
1.1.4) Training Equipment							3	2015	NAVY	1	-	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 2017 Navy																					Date: February 2016																				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures										Item Number / Title [DODIC]: 2 / AN/AQS-24 Sonar																					
Cost Elements (Units in Each)							Fiscal Year 2018												Fiscal Year 2019																						
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	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	B A L A N C E											
1.1.2) AN/AQS-24B - upgrade kit							Calendar Year 2018												Calendar Year 2019																						
1	2014	NAVY	20	20	-																										-										
1	2015	NAVY	7	7	-																																				
1.1.3) AN/AQS-24C - Upgrade kit							2	2017	NAVY	8	-	8	-	-	-	-	1	2	2	2	1													-							
1.1.4) Training Equipment							3	2015	NAVY	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 2017 Navy										Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures					Item Number / Title [DODIC]: 2 / AN/AQS-24 Sonar						
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)										
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	Northrop Grumman (Annapolis, MD) - Annapolis	-	-	-	-	-	12	12	-	-	12	12			
2	Northrop Grumman (Annapolis, MD) - Annapolis	3	5	18	-	-	12	12	-	-	12	12			
3	Northrop Grumman (Annapolis, MD) - Annapolis	-	-	-	-	-	12	12	-	-	-	-			

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures								Item Number / Title [DODIC]: 3 / MK-105						
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				20.000		-		-		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				20.000		-		-		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				20.000		-		-		-		-		-				
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Hardware - S0061 - MK-105 MOD 4 Cost																		
Recurring Cost																		
1.1.1) MK-105 MOD 4(t)	16,600K	1	16.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.2) Production Line Set-Up	-	-	3.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Recurring Cost</i>	-	-	20.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Hardware - S0061 - MK-105 MOD 4 Cost</i>	-	-	20.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	-	-	20.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures					Item Number / Title [DODIC]: 3 / MK-105				
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
1.1.1) MK-105 MOD 4 ^(†)		2012	ITT / Panama City, Florida	C / FFP	NSWC PC	Mar 2013	Sep 2014	1	16,600K	Y		Jul 2011

(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy																					Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3																					Item Number / Title [DODIC]: 3 / MK-105													
Cost Elements (Units in Each)										Fiscal Year 2013											Fiscal Year 2014													
O C R O #	M F #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	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	B A L A N C E			
1.1.1) MK-105 MOD 4																					Calendar Year 2013													
1	2012	NAVY	1	-	1		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-				
										O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures					Item Number / Title [DODIC]: 3 / MK-105				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	ITT - Panama City, Florida	1	3	6	-	-	18	18	-	-	18	18

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures								Item Number / Title [DODIC]: 4 / AMNS						
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				56.582		-		6.800		5.435		-		5.435				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				56.582		-		6.800		5.435		-		5.435				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				56.582		-		6.800		5.435		-		5.435				
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Hardware - S0065 - AMNS Cost																		
Recurring Cost																		
1.1.1) AMNS ^(†)	2,116K	17	35.965	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.2) AMNS (MH-53E)	-	-	3.860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.4) PRODUCTION ENGINEERING	-	-	2.587	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.5) TRAINING EQUIPMENT	-	-	4.967	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.6) ILS/PUBS/TECH DATA	-	-	2.089	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.7) SUPPORT EQUIPMENT	-	-	7.114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.8) ECP (HW/SW) and Upgrades	-	-	0.000	-	-	-	-	-	6.800	-	-	5.435	-	-	-	-	5.435	
<i>Subtotal: Recurring Cost</i>	-	-	56.582	-	-	-	-	-	6.800	-	-	5.435	-	-	-	-	5.435	
<i>Subtotal: Hardware - S0065 - AMNS Cost</i>	-	-	56.582	-	-	-	-	-	6.800	-	-	5.435	-	-	-	-	5.435	
Gross/Weapon System Cost	-	-	56.582	-	-	-	-	-	6.800	-	-	5.435	-	-	-	-	5.435	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures					Item Number / Title [DODIC]: 4 / AMNS				
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
1.1.1) AMNS ^(†)		2009	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	Sep 2010	Feb 2012	4	2,225K	Y		
1.1.1) AMNS ^(†)		2010	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	Jan 2011	Jun 2012	2	2,250K	Y		Apr 2010
1.1.1) AMNS ^(†)		2011	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	Jun 2011	Nov 2012	4	2,243K	Y		
1.1.1) AMNS ^(†)		2012	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	Jun 2012	Nov 2013	1	2,261K	Y		
1.1.1) AMNS ^(†)		2013	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	Mar 2014	Aug 2015	1	2,256K	Y		
1.1.1) AMNS ^(†)		2014	Raytheon / Portsmouth, RI	SS / FFP	NAVSEA	May 2014	Oct 2015	2	2,241K	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy																				Date: February 2016																													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures										Item Number / Title [DODIC]: 4 / AMNS																													
Cost Elements (Units in Each)					Fiscal Year 2010															Fiscal Year 2011																													
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2009	BAL DUE AS OF 1 OCT	Calendar Year 2010										Calendar Year 2011										B A L A N C E																							
1	2009	NAVY	4	-	4											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4														
1	2010	NAVY	2	-	2											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2															
1	2011	NAVY	4	-	4																					A -	-	-	-	-	-	-	-	-	4														
1	2012	NAVY	1	-	1																															1													
1	2013	NAVY	1	-	1																															1													
1	2014	NAVY	2	-	2																															2													
																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 2017 Navy																			Date: February 2016																																																																																																																																																																																																																																																		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3																			Item Number / Title [DODIC]: 4 / AMNS																																																																																																																																																																																																																																																		
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Exhibit P-21, Production Schedule: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures					Item Number / Title [DODIC]: 4 / AMNS				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Raytheon - Portsmouth, RI	1	8	24	-	-	17	17	-	-	17	17

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures								Item Number / Title [DODIC]: 5 / ALMDS [ALMDS]						
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				106.419		-		2,300		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				106.419		-		2,300		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				106.419		-		2,300		-		-		-				
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Hardware - S0075 - ALMDS Cost																		
Recurring Cost																		
1.1.1) ALMDS ^(†)	7,354K	12	88.247	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.2) PRODUCTION ENGINEERING	-	-	8.776	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.3) PRODUCTION ECP (HW/SW)	-	-	5.235	-	-	-	-	-	2,300	-	-	-	-	-	-	-	-	
1.1.4) TRAINING EQUIPMENT	-	-	0.976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.5) ILS/PUBS/TECH DATA	-	-	2.429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.6) SUPPORT EQUIPMENT	-	-	0.756	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Recurring Cost</i>	-	-	106.419	-	-	-	-	-	2,300	-	-	-	-	-	-	-	-	
<i>Subtotal: Hardware - S0075 - ALMDS Cost</i>	-	-	106.419	-	-	-	-	-	2,300	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	-	-	106.419	-	-	-	-	-	2,300	-	-	-	-	-	-	-	-	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures					Item Number / Title [DODIC]: 5 / ALMDS [ALMDS]				
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
1.1.1) ALMDS ^(†)		2010	Northrop Grumman / Melborn, FL	SS / FFP	NSWC PC	Sep 2010	Mar 2012	3	7,159K	Y		Dec 2008
1.1.1) ALMDS ^(†)		2011	Northrop Grumman / Melborn, FL	SS / FFP	NSWC PC	Mar 2012	Sep 2013	2	7,100K	Y		Oct 2011
1.1.1) ALMDS ^(†)		2013	Northrop Grumman / Melborn, FL	C / FFP	NAVSEA	Jun 2013	Feb 2015	4	7,338K	Y		Mar 2012
1.1.1) ALMDS ^(†)		2014	Northrop Grumman / Melborn, FL	C / FFP	NAVSEA	Dec 2014	Aug 2016	1	7,900K	Y		Mar 2013

(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy																				Date: February 2016																				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures										Item Number / Title [DODIC]: 5 / ALMDS [ALMDS]																				
Cost Elements (Units in Each)							Fiscal Year 2010												Fiscal Year 2011																					
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2009	BAL DUE AS OF 1 OCT	OCT T	NOV V	DEC C	JAN A N	FEB E B	MAR A R	APR A R	MAY M A Y	JUN J U N	JUL J U L	AUG A U G	SEP S E P	OCT O C T	NOV N O V	DEC D E C	JAN J A N	FEB F E B	MAR M A R	APR A P R	MAY M A Y	JUN J U N	JUL J U L	AUG A U G	SEP S E P	B A L A N C E										
1.1.1) ALMDS																																								
Prior Years Deliveries: 2																																								
1	2010	NAVY	3	-	3																																	3		
1	2011	NAVY	2	-	2																																	2		
1	2013	NAVY	4	-	4																																	4		
1	2014	NAVY	1	-	1																																	1		
							OCT T	NOV V	DEC C	JAN A N	FEB E B	MAR A R	APR A R	MAY M A Y	JUN J U N	JUL J U L	AUG A U G	SEP S E P	OCT O C T	NOV N O V	DEC D E C	JAN J A N	FEB F E B	MAR M A R	APR A P R	MAY M A Y	JUN J U N	JUL J U L	AUG A U G	SEP S E P										

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Exhibit P-21, Production Schedule: PB 2017 Navy																			Date: February 2016																		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures										Item Number / Title [DODIC]: 5 / ALMDS [ALMDS]																	
Cost Elements (Units in Each)							Fiscal Year 2012												Fiscal Year 2013																		
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	FY	Calendar Year 2012												Calendar Year 2013																		
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	B A L A N C E													
1.1.1) ALMDS																																					
Prior Years Deliveries: 2																																					
1	2010	NAVY	3	-	3	-	-	-	-	1	-	1	-	1															-								
1	2011	NAVY	2	-	2					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1								
1	2013	NAVY	4	-	4																								A -	-	-	4					
1	2014	NAVY	1	-	1																											1					

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Exhibit P-21, Production Schedule: PB 2017 Navy																				Date: February 2016																				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures										Item Number / Title [DODIC]: 5 / ALMDS [ALMDS]																				
Cost Elements (Units in Each)							Fiscal Year 2014												Fiscal Year 2015																					
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	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	B A L A N C E										
1.1.1) ALMDS																																								
Prior Years Deliveries: 2																																								
1	2010	NAVY	3	3	-																																		-	
1	2011	NAVY	2	1	1	-	1																																-	
1	2013	NAVY	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
1	2014	NAVY	1	-	1																																			1

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Exhibit P-21, Production Schedule: PB 2017 Navy																			Date: February 2016																						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3																			P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures																						
Cost Elements (Units in Each)																			Fiscal Year 2016																						
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016																			Fiscal 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																			Calendar Year 2017																						
1.1.1) ALMDS																																									
Prior Years Deliveries: 2																																									
1	2010	NAVY	3	3	-																																				
1	2011	NAVY	2	2	-																																				
1	2013	NAVY	4	4	-																																				
1	2014	NAVY	1	-	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																			BALANCE																						

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Exhibit P-21, Production Schedule: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures					Item Number / Title [DODIC]: 5 / ALMDS [ALMDS]				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	Northrop Grumman - Melborn, FL	1	12	24	-	-	20	20	-	-	18	18

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures												Item Number / Title [DODIC]: 6 / OAMCM [OAMCM]			
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:						
Resource Summary				Prior Years			FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Procurement Quantity (<i>Units in Each</i>)				-			-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				115.094			-		-		-		-		-			
Less PY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				115.094			-		-		-		-		-			
Plus CY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				115.094			-		-		-		-		-			
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Hardware - S0090 - OAMCM Support Equipment Cost																		
Recurring Cost																		
1.1.1) OPMA ^(†)	111,200.00	15	1,668	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.2) SNIUTT	-	-	1,380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.3) ORCA	3,098K	2	6,195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.1.4) Tow Cables ^(†)	125,000.00	20	2,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Recurring Cost</i>	-	-	11.743	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Hardware - S0090 - OAMCM Support Equipment Cost</i>	-	-	11.743	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardware - Prior Years Cost																		
Recurring Cost																		
2.1.1) Prior Years Cumulative Funding	-	-	103.351	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Recurring Cost</i>	-	-	103.351	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Hardware - Prior Years Cost</i>	-	-	103.351	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	-	-	115.094	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures					Item Number / Title [DODIC]: 6 / OAMCM [OAMCM]				
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
1.1.1) OPMA ^(†)		2014	Unknown / Unknown	C / FFP	NAVSEA	Mar 2014	Mar 2015	9	100,000.00	N	Mar 2013	Mar 2013
1.1.4) Tow Cables ^(†)		2012	Cogent, UK / UNKNOWN	C / FFP	NSWC, PC	May 2012	May 2013	10	100,000.00	Y		May 2011
1.1.4) Tow Cables ^(†)		2013	Cogent, UK / UNKNOWN	C / FFP	NSWC, PC	May 2013	May 2014	10	150,000.00	Y		May 2012

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Navy																					Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures										Item Number / Title [DODIC]: 6 / OAMCM [OAMCM]															
Cost Elements (Units in Each)							Fiscal Year 2012												Fiscal Year 2013																
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	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	B A L A N C E					
1.1.1) OPMA							Fiscal Year 2012												Fiscal Year 2013																
Prior Years Deliveries: 6							1	2014	NAVY	9	-	9																					9		
1.1.4) Tow Cables							2	2012	NAVY	10	-	10																						-	
							2	2013	NAVY	10	-	10																							10
							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 2017 Navy																					Date: February 2016										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3																					Item Number / Title [DODIC]: 6 / OAMCM [OAMCM]										
Cost Elements (Units in Each)																					Fiscal Year 2014										
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	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	Fiscal Year 2015	
1.1.1) OPMA																					Calendar Year 2014										
Prior Years Deliveries: 6																					Calendar Year 2015										
1	2014	NAVY	9	-	9																										
2	2012	NAVY	10	10	-																										
2	2013	NAVY	10	-	10	-	-	-	-	-	-	-	-	4	3	3															
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 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4248 / Aviation Mine Countermeasures					Item Number / Title [DODIC]: 6 / OAMCM [OAMCM]				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	Unknown - Unknown	3	10	20	-	-	12	12	-	-	12	12
2	Cogent, UK - UNKNOWN	-	-	-	-	-	12	12	-	-	12	12

"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 2017 Navy										Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment					P-1 Line Item Number / Title: 4268 / Aviation Support Equipment										
ID Code (A=Service Ready, B=Not Service Ready): B			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A							
Line Item MDAP/MAIS Code: N/A			Item MDAP/MAIS Code(s): N/A												
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total			
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	0.000	47.105	49.773	39.099	-	39.099	35.574	40.367	60.537	60.928	Continuing	Continuing			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	0.000	47.105	49.773	39.099	-	39.099	35.574	40.367	60.537	60.928	Continuing	Continuing			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	0.000	47.105	49.773	39.099	-	39.099	35.574	40.367	60.537	60.928	Continuing	Continuing			
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>															
Initial Spares (\$ in Millions)	-	1.636	3.249	1.597	-	1.597	3.035	2.302	1.922	1.961	Continuing	Continuing			
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-			
Description:															
Decision Knowledge Programming for Logistics Analysis and Technical Evaluation (DECKPLATE) (S7039): DECKPLATE is the next generation of Naval Aviation Logistics Data Analysis (NALDA) and will interface with Navy Enterprise Resource Planning (ERP) as the Naval Aviation Business Warehouse. It provides the technological improvements and process streamlining required to enable a cost wise transition from the NALDA program to the capabilities required in Joint Vision 2020 and the Naval Transformation Road Map. DECKPLATE is a Commercial Off the Shelf (COTS) intensive system under which numerous stovepipe legacy systems will migrate to create an integrated data environment through the use of Data Warehouse tools and concepts in support of Naval aviation logistics needs. This is being accomplished by upgrading current Naval Aviation logistics reporting mechanisms through the procurement and installation of a fully-licensed, warranted, secure, standardized, COTS, user-friendly, web-based relational database environment. Funding is required to procure the necessary hardware, networking, systems, applications software, infrastructure, and associated engineering and installation support.															
Naval Aviation Logistics Command Management Information System/NAVAIR Fleet System Array (NALCOMIS/NFSA) (S7041): Funding supports procurement of HW/SW for technical refresh for both shipboard and afloat units. As Optimized Organizational Maintenance Activity (OOMA) and Optimized Intermediate Maintenance Activity (OIMA) approach full implementation, NALCOMIS (also identified as Naval Air Systems Command Fleet Systems Array (NFSA)) is responsible for implementation of Mid Tier Servers at 75+ sites both shipboard and shore based. These Mid Tier Servers replicate data from the Organizational and Intermediate level maintenance activities to the NALDA Upline processing center to provide near-real time data to decision makers at all levels. The Mid Tier also allows data to be pushed from Headquarters activities to the fleet to support maintenance activities.															
Joint Technical Data Integration (JTDI) (S7042): Funding supports procurement of JTDI for installation on all Carrier (CV) and Amphibious Assault (L) class ships and up to 104 Navy/Marine Corps aviation activities. JTDI is a digital technical data access, delivery and local O&I level library management toolset and telemaintenance collaboration process enabler. It improves accuracy and timeliness of technical manual and other technical data delivery and minimizes the Fleet's library management burden. JTDI reduces maintenance manhours with savings Return on Investment (ROI) of 2.5:1 and savings/avoidance ROI of 9.5:1. It facilitates the transition of the Joint Distance Support and Response (JDSR) Advanced Concept Technology Demonstration (ACTD) for telemaintenance and provides for process efficiencies to support ongoing Aviation Fleet Technical Representative reductions.															
The Marine Aviation Logistics Enterprise Information Technology (MAL-EIT) (S7046): The MAL-EIT program is one of four programs contained within the Marine Aviation Logistics Support Program (MALSP) modernization program known as MALSP II. Legacy MALSP is nearly 25 years old and grossly inadequate in IT capability to meet the informational, planning, and C2 needs of a dynamic, geographically distributed nodal Aviation Logistics (AVLOG) system. MAL-EIT is an Abbreviated Acquisition Program (AAP) that will develop and deliver the required IT capability necessary to eliminate the IT related gaps existing in the legacy MALSP. MAL-EIT is a family of IT solutions to be developed and delivered in three increments; the first of which is the Expeditionary Pack-Up Kit (EPUK). EPUK provides Expeditionary Supply Operations such as Business Administration, Inventory and Customer Service Operations.															

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment		P-1 Line Item Number / Title: 4268 / Aviation Support Equipment
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
Funding is required to procure the hardware, hand-held peripherals, satellite communication units, and associated engineering and hardware support necessary to facilitate the planning and execution of geographically distributed, expeditionary AVLOG chains in support of deployed USMC Air Combat Element (ACE) operations.		
Automated Data Capture System (ADCS) (S7047): ADCS is a user friendly, interactive mobile computing system currently in use at depot-level Fleet Readiness Centers to document and analyze aircraft discrepancies discovered during scheduled maintenance events. Inspectors use menu driven checklists plus digital aircraft and engine drawings during inspection and evaluation to create immediate discrepancy records and produce real time reports that fulfill customer and specification requirements. Requested funding will provide hardware and software for a lead-the-Fleet effort that will enable the organizational maintenance level to utilize ADCS to better document vital corrosion and wiring related discrepancy information. Once captured, this information will be analyzed by organizational level maintenance department personnel and depot level engineers to develop targeted mitigation strategies aimed at reducing or removing corrosion in identified areas. The results of the analysis made possible by using ADCS will greatly improve our understanding of where and how corrosion is affecting our aircraft, resulting in the formulation of statistically targeted area identification and sound attack strategies.		
Condition Based Maintenance Plus (CBM+) (S7048): The CBM+ solution is an initiative which provides Naval Aviation Enterprise with common enabling capabilities which deliver timely data-driven decisional information to optimize aircraft availability and materiel readiness by incorporating health and usage leading indicators into the failure mode mitigation process, enabling the Warfighter to more efficiently meet mission requirements through automated analysis and decision making processes. The CBM+ Initiative increases readiness by streamlining maintenance processes, provide the sustainment base with timely, actionable logistics data not previously available, and enable engineers and acquisition professionals to support system improvements based on CBM+ acquired data results. CBM+ provides the enabling solutions needed to extend the life of current and new acquisition aircraft, realizing savings from reductions in field (organizational and intermediate) maintenance actions, reduced functional check flight hours, mishap mitigation, and reduced parts usage.		
[P5 / CSEL - SY060]: COMBAT SURVIVOR EVADER LOCATOR - SY060 (Baseline) CSEL has been designated as an ACAT III Joint Service Program with the USAF as lead service. The CSEL Radio system provides U.S. combat forces with secure, encrypted, low probability of exploitation, two-way, over the horizon, near real time databurst communications with integral precise geopositioning; and non-secure, unencrypted line-of-sight voice and beacon capability to support survival, evasion, and personnel recovery operations. The user segment of the CSEL system is composed of a battery operated Hand Held Radio (HHR) (AN/PRQ-7), a Radio Set Adapter (J-6431/PRQ-7), a Global Positioning System (GPS) antenna and coupler, and a laptop Central Processing Unit with software for loading the HHR CSEL Planning Computer. Fielding of CSEL radios will provide 100% coverage of radios to Aviation personnel that currently lack military GPS enabled radios today.		
[P5 / LEP- SY080]: LASER EYE PROTECTION (LEP) - SY080 (Baseline) The LEP program is a family of eye protection solutions that will provide Fixed, Rotary Wing and Patrol pilots and aircrew with multiple wavelength fixed threat and hazard protection during day and night unaided and Night Vision Goggle aided missions. LEP will consist of a suite of products to include spectacles, goggles, and visors. The LEP (visor, spectacle or goggle format) is being developed for compatibility with all required USN/USMC Aviation Life Support Equipment as well as cockpit displays, night vision, and fire control systems.		
[P5 / JHMCS Night Vision - SY215]: JOINT HELMET MOUNTED CUEING SYSTEM NIGHT VISION (JHMCS) - SY215 (Baseline) This system provides aircraft equipped with the JHMCS the ability to cue and display weapons and sensors at night using a Night Vision Cueing and Display device that integrates the JHMCS cueing and display symbology. The system is compatible with the current JHMCS helmet and will use the power and data provided by the JHMCS Universal Connector on the helmet. The System includes a high resolution image intensifier assembly, a camera to record the pilot's visual scene and display. The system is fully adjustable by the operator and is detachable from the helmet.		
[P5 / FDC - SY505]: FLIGHT DECK CRANIAL AND HEARING PROTECTION - SY505 (Baseline) The Flight Deck Cranial Program has been divided into three increments by the Milestone Decision Authority. Increment 1 is the Flight Deck Double Hearing Protection (DHP) program and is providing improved hearing protection for aircrew, maintainers, and flight deck personnel, which can be integrated into current legacy helmet and cranial assemblies. Communications versions interface with existing flight deck communications system and F/A-18 Inter-aircraft Communication System. Increment 1 Milestone C (MS C) was successfully completed on 27 April 2011. Increment 2 is the Triple Hearing Protection (THP) program and will provide hearing protection and speech intelligibility for aircrew, maintainers and flight deck personnel in the most extreme noise environments. Communications versions will interface with the shipboard Sound-Powered Phone, existing flight deck communications systems and multiple aircraft communications systems. Increment 3 will provide lightweight head protection devices/helmets with advancements in head impact protection, and Night Vision Device, Chemical Biological and Radiological clothing, and eye protection compatibility. These products will greatly improve the level of head and hearing protection available to aircrew, maintainers, and flight deck personnel.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment		P-1 Line Item Number / Title: 4268 / Aviation Support Equipment
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
[P5 / EKB - SY450]: ELECTRONIC KNEE BOARD (EKB) - SY450 (Baseline) The EKB is an aircrew mounted tablet device system. Currently, printed Gridded Reference Graphics (GRG) charts are used to provide aircrew with required information to complete their missions. Evolving flight operations show the need for aircrew to be re-tasked to any part of a large area of operations resulting in the need to carry many more GRG charts in the aircraft. Physical space constraints in the cockpit for printed GRG's and insufficient aircraft memory to store electronic GRG files are adversely affecting the Fleets' ability to perform their mission. The EKB provides a digital means to store and display all required GRG information, which will increase mission flexibility, situational awareness, and overall mission effectiveness. In addition, the EKB will also store and display other information that is currently printed, to include, but not limited to, NATOPS procedures, flight information publications and related mission planning products.		
[P5 / EVA - SY217]: ENHANCED VISUAL ACUITY (EVA) - SY217 (Baseline) EVA provides a digital night vision capability to address critical capability gaps in low and no light illumination levels (night vision) and higher visibility in a degraded visual environment. The digital architecture of the system provides the ability to field capabilities incrementally. Increment 1 will include capabilities to address the low and no light illumination issues. The increment 1 capability will also provide a sharper image at all light levels by reducing scintillation and will reduce halo/blooming when operating in urban environments. Increment 2 will build on the Increment 1 performance by adding capability to address the need for higher visibility in degraded visual environments, digital interoperability and future sensor integration.		
[P5 / AE - SY125]: AIRCREW ENDURANCE (AE) - SY125 (Baseline) AE is an Abbreviated Acquisition Program. The program is comprised of many components designed to improve endurance in flights of longer duration. Systems include survival vests and body armor design, sizing, compatibility, durability and color improvements; hydration systems; mission extender devices to address physical waste needs; and improved universal camouflage to the Marine Corps coyote color schemes. These improvements will address issues associated with heat stress, physical fatigue, safety and loss of mobility on long duration missions. Changes in the FY15 Budget request reflect reaching the Inventory Objective of 9118 AE Vests in FY13.		
[P5 - 2 / S6001 Portable Electronic Maintenance Aids (PEMAs)]: Portable Electronic Maintenance Aids (PEMAs) are Aviation Support Equipment end items used by fleet technicians to assist in performing maintenance and diagnostics of aircraft. Funding is required to procure the necessary hardware, software applications, initial stand up, and production support. PEMAs are a portable display device used in the Automated Maintenance Environment (AME) to read digital maintenance publications and Integrated Electronic Technical Manuals (IETMs). PEMAs with IETMs applications interpret aircraft Binary Digit (BIT) Data to diagnose the aircraft systems and direct maintenance actions.		
[P3A / ALIS - Program Support]: Autonomic Logistics Information System (ALIS) Ship Integration - CVN, LHD, LHA: ALIS controls all aspects of F-35 mission planning, maintenance, logistics, and supply functions. Funding for ALIS Ship Integration efforts (Programmatic Support, Engineering Support Services, Material, and Installation efforts) will enable shipboard (CVN, LHD, LHA) modification, classified/ unclassified network integration, the installation of ALIS-related shipboard equipment, ALIS security accreditation, and verification of ALIS operation and functionality to include the integration of ALIS with shipboard Command, Control, Communications and Computers & Intelligence (C4I) Networks and the Prognostic Health Management (PHM) downlink. At the completion of each installation, the respective ship's ALIS will enable the F-35 system to provide, at the appropriate security levels via Navy Local Area Networks (LANs)/Wide Area Networks (WANs), the ability to transfer time-sensitive data for logistics support, mission planning, mission execution, and mission debriefing.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy								Date: February 2016	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment				P-1 Line Item Number / Title: 4268 / Aviation Support Equipment					
ID Code (A=Service Ready, B=Not Service Ready): B				Program Elements for Code B Items: N/A					
Line Item MDAP/MAIS Code: N/A			Item MDAP/MAIS Code(s): N/A						
Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Other Aviation Support Equipment	P-5a		- / 0.000	- / 3.841	- / 7.532	- / 7.230	- / -	- / 7.230
P-5	1 / Aviation Life Support	P-5a, P-21		- / 0.000	- / 28.602	- / 30.586	- / 22.528	- / -	- / 22.528
P-5	2 / Portable Electronic Maintenance Aids	P-5a, P-21		- / 0.000	- / 9.146	- / 7.762	- / 7.280	- / -	- / 7.280
P-3a	1 / ALIS SHIP INSTALLATION (Add Capability)			- / 0.000	- / 5.516	- / 3.893	- / 2.061	- / -	- / 2.061
P-40	Total Gross/Weapon System Cost			- / 0.000	- / 47.105	- / 49.773	- / 39.099	- / -	- / 39.099
Exhibits Schedule			FY 2018		FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Other Aviation Support Equipment	P-5a		- / -	- / -	- / -	- / -	- / -	- / -
P-5	1 / Aviation Life Support	P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / -
P-5	2 / Portable Electronic Maintenance Aids	P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / ALIS SHIP INSTALLATION (Add Capability)			- / 3.855	- / 3.727	- / 3.821	- / 3.895	- / 2.865	- / 29.633
P-40	Total Gross/Weapon System Cost			- / 35.574	- / 40.367	- / 60.537	- / 60.928	Continuing	Continuing

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. 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:

Beginning in FY2015, funding is transferred from BLIs: 4265 (Other Aviation Support Equipment), 4244 (Aviation Life Support), 4264 (Portable Electronic Maintenance Aids - PEMA), and 4267 (Autonomic Logistics Info Systems - ALIS).

The FY2017 Budget Request includes funding for the following:

Other Aviation Support Equipment - the procurement of hardware and associated support costs for JTDS (S7042), MAL-EIT/EPUK (S7046), and CBM+ (S7048).

Other Aviation Support Equipment - Naval Aviation Logistics Command Management Information System/Naval Air Systems Command Fleet System Array (NALCOMIS/NFSA)(S7041) consists of the purchase of multiple components, which includes servers, peripheral hardware and software rack mounted into one server suite. Funds are required to manage obsolescence and comply with CYBER WARFARE/XP Migration and fleet data replication and analysis processes used to monitor safety and readiness of the Fleet as well as the ability to comply with mandatory Information Security (IA) mandates, which would lead to IT system shutdown without adherence.

Naval Aviation Logistics Data Analysis Decision Knowledge Programming for Logistics Analysis and Technical Evaluation (DECKPLATE)(S7039)consists of the purchase of multiple components, which includes servers, peripheral hardware and software rack mounted into one server suite. Funds are required to manage obsolescence and comply with CYBER WARFARE/XP Migration and fleet data replication and analysis processes used to monitor safety and readiness of the Fleet as well as the ability to comply with mandatory Information Security (IA) mandates, which would lead to IT system shutdown without adherence.

Aviation Life Support - the procurement of hardware and associated support costs for 50 JHMCS Night Vision Cueing and Display devices, 1,200 Aircrew/Flight Deck Maintainer Triple Hearing Protection/Headset assemblies.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 03: Aviation Support Equipment / BSA 3: Aircraft Support Equipment		P-1 Line Item Number / Title: 4268 / Aviation Support Equipment
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
<p>Portable Electronic Maintenance Aids (PEMA) - the procurement of hardware and associated support costs for 1,449 PEMA units.</p> <p>Autonomic Logistics Info Systems (ALIS) - supports Design Support Activities (DSA) to include material purchases for the installation of two (2) ALIS in FY2018.</p>		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy														Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3							P-1 Line Item Number / Title: 4268 / Aviation Support Equipment							Aggregated Items Title: Other Aviation Support Equipment ⁽¹⁾						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 Aviation Logistics Data Analysis Decision Knowledge Programming for Logistics Analys																				
1.1) S7039 - Aviation Data Warehouse Environment ^{(2)(t)}	A		-	-	-	409,507.00	1	0.410	2,887K	1	2.887	1,405K	1	1.405	-	-	-	1,405K	1	1.405
<i>Subtotal: 1) Naval Aviation Logistics Data Analysis Decision Knowledge Programming for Logistics Analys</i>			-	-	0.000	-	-	0.410	-	-	2.887	-	-	1.405	-	-	-	-	1.405	
2) Naval Aviation Logistics Command Management Information System/Naval Air Systems Command F																				
2.1) S7041 - NFSR HW/SW ^{(3)(t)}	A		-	-	-	853,296.00	1	0.853	2,376K	1	2.376	2,093K	1	2.093	-	-	-	2,093K	1	2.093
<i>Subtotal: 2) Naval Aviation Logistics Command Management Information System/Naval Air Systems Command F</i>			-	-	0.000	-	-	0.853	-	-	2.376	-	-	2.093	-	-	-	-	2.093	
3) Joint Technical Data Integration (JTDI)																				
3.1) S7042 - JTDI HW/SW ^(t)	A		-	-	-	844,000.00	1	0.844	510,000.00	1	0.510	562,653.00	1	0.563	-	-	-	562,653.00	1	0.563
<i>Subtotal: 3) Joint Technical Data Integration (JTDI)</i>			-	-	0.000	-	-	0.844	-	-	0.510	-	-	0.563	-	-	-	-	0.563	
4) Marine Aviation Logistics Enterprise Information Technology (MAL-EIT)/Expeditionary Pack U																				
4.1) S7046 - EPUK HW/SW ^{(4)(t)}	B		-	-	-	374,000.00	1	0.374	192,767.00	1	0.193	1,914K	1	1.914	-	-	-	1,914K	1	1.914
<i>Subtotal: 4) Marine Aviation Logistics Enterprise Information Technology (MAL-EIT)/Expeditionary Pack U</i>			-	-	0.000	-	-	0.374	-	-	0.193	-	-	1.914	-	-	-	-	1.914	
5) Automated Data Capture System (ADCS)																				
5.1) S7047 - ADCS HW/SW ^(t)	B		-	-	-	207,000.00	1	0.207	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: 5) Automated Data Capture System (ADCS)</i>			-	-	0.000	-	-	0.207	-	-	-	-	-	-	-	-	-	-		
6) Condition Based Maintenance Plus (CBM+)																				
6.1) S7048 - CBM+ HW/SW ^{(5)(t)}	A		-	-	-	-	-	-	168,000.00	1	0.168	154,437.00	1	0.154	-	-	-	154,437.00	1	0.154
<i>Subtotal: 6) Condition Based Maintenance Plus (CBM+)</i>			-	-	0.000	-	-	-	-	-	0.168	-	-	0.154	-	-	-	-	0.154	
7) Production Engineering Support (AIR6.8)																				
7.1) S7833 - Marine Aviation Logistics Enterprise Information Technology	A		-	-	-	-	-	-	-	-	0.020	-	-	0.020	-	-	-	-	0.020	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Navy														Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3						P-1 Line Item Number / Title: 4268 / Aviation Support Equipment								Aggregated Items Title: Other Aviation Support Equipment ⁽¹⁾						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
7.2) S7833 - Aviation Data Warehouse Environment ⁽⁶⁾	A		-	-	-	-	-	0.326	-	-	0.438	-	-	0.389	-	-	-	-	-	0.389
7.3) S7833 - Naval Air Systems Command Fleet System Arrays ⁽⁷⁾	A		-	-	-	-	-	0.354	-	-	0.537	-	-	0.427	-	-	-	-	-	0.427
7.4) S7833 - Joint Technical Data Integration	A		-	-	-	-	-	0.349	-	-	0.349	-	-	0.221	-	-	-	-	-	0.221
7.5) S7833 - Automated Data Capture System	A		-	-	-	-	-	0.124	-	-	-	-	-	-	-	-	-	-	-	-
7.6) S7833 - Condition Based Maintenance Plus	A		-	-	-	-	-	-	-	-	0.054	-	-	0.044	-	-	-	-	-	0.044
Subtotal: 7) Production Engineering Support (AIR6.8)			-	-	0.000	-	-	1.153	-	-	1.398	-	-	1.101	-	-	-	-	-	1.101
Total			-	-	0.000	-	-	3.841	-	-	7.532	-	-	7.230	-	-	-	-	-	7.230
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⁾ Program provides for the acquisition, upgrade, and production support of aviation life support systems required for the personal safety and protection of aircrew against the hazards encountered in the aircraft operating environment and for safe recovery of downed aircrew. Note: Elements of Cost that are not currently funded in the FYDP are no longer included in the "Prior Year" column.

⁽²⁾ Naval Aviation Logistics Data Analysis Decision Knowledge Programming for Logistics Analysis and Technical Evaluation (DECKPLATE)(S7039) - The unit cost reflects the total of all suites being procured in each fiscal year. In FY17 the total cost reflects the procurement of 10 suites and additional peripheral hardware items (i.e., power supplies, hard drives, etc.)which allows for the installation/re-engineering/consolidation of hardware servers and software within the Naval Air Systems Command/Naval Air Warfare Center, Aircraft Division 7.2 Data Center.

⁽³⁾ Naval Aviation Logistics Command Management Information System/Naval Air Systems Command Fleet System Array (NALCOMIS/NFSA) (S7041): The unit cost reflects the total of all suites being procured in each fiscal year. In FY17 the total cost reflects the procurement of 10 suites and additional peripheral hardware items (i.e., power supplies, hard drives, etc.)which represents the budget requirement to manage obsolescence and comply with CYBER WARFARE/XP Migration and fleet data replication and analysis processes used to monitor safety and readiness of the Fleet and the ability to comply with mandatory Information Security (IA) mandates.

⁽⁴⁾ Marine Aviation Logistics Enterprise Information Technology (MAL-EIT)/Expeditionary Pack Up Kits (EPUK) (S7046) Increase in unit cost for EPUK between FY16 and FY17 is to perform a complete technology refresh for all of the existing suites located at the Marine Aviation Logistics (MALS), as well as the Marine Reserves and Marine School Houses. This will also provide additional functionality to the EPUK which will enable sustainment of operations in austere environments.

⁽⁵⁾ Funding for Condition Based Maintenance (CBM+) was previously executed under DECKPLATE.

⁽⁶⁾ Decrease in production engineering support between FY16 and FY17 is due to an decrease in technical refresh requirements.

⁽⁷⁾ Decrease in production engineering support between FY16 and FY17 is due to an decrease in technical refresh requirements.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4268 / Aviation Support Equipment					Aggregated Items: Other Aviation Support Equipment ⁽¹⁾				
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 Aviation Logistics Data Analysis Decision Knowledge Programming for Logistics Analysis												
1.1) S7039 - Aviation Data Warehouse Environment ⁽²⁾		2015	Teradata Government Systems / Germantown MD	C / FFP	NAVSUP	Dec 2014	Dec 2015	1	409,507.00	Y		Nov 2014
1.1) S7039 - Aviation Data Warehouse Environment ⁽²⁾		2016	Teradata Government Systems / Germantown MD	C / FFP	NAVAIR	Dec 2015	Dec 2016	1	2,887K	Y		Nov 2015
1.1) S7039 - Aviation Data Warehouse Environment ⁽²⁾		2017	Teradata Government Systems / Germantown MD	C / FFP	NAVAIR	Dec 2016	Dec 2017	1	1,405K	Y		Nov 2016
2) Naval Aviation Logistics Command Management Information System/Naval Air Systems Command F												
2.1) S7041 - NFSA HW/SW ⁽³⁾		2015 ⁽⁸⁾	VARIOUS / VARIOUS	C / FFP	NAVAIR	Aug 2015	Dec 2015	1	853,296.00	Y		Jan 2015
2.1) S7041 - NFSA HW/SW ⁽³⁾		2016	VARIOUS / VARIOUS	C / FFP	NAVAIR	May 2016	Sep 2016	1	2,376K	Y		Jan 2016
2.1) S7041 - NFSA HW/SW ⁽³⁾		2017	VARIOUS / VARIOUS	C / FFP	NAVAIR	May 2017	Sep 2017	1	2,093K	Y		Jan 2017
3) Joint Technical Data Integration (JTDI)												
3.1) S7042 - JTDI HW/SW		2015	DMI / DMI	C / CPFF	DTIC	Jul 2015	Oct 2015	1	844,000.00	Y		May 2015
3.1) S7042 - JTDI HW/SW		2016	DMI / DMI	C / CPFF	DTIC	Jul 2016	Oct 2016	1	510,000.00	Y		May 2016
3.1) S7042 - JTDI HW/SW		2017	DMI / DMI	C / TBD	DTIC	Jul 2017	Oct 2017	1	562,653.00	Y		May 2017
4) Marine Aviation Logistics Enterprise Information Technology (MAL-EIT)/Expeditionary Pack U												
4.1) S7046 - EPUK HW/SW ⁽⁴⁾		2015	VARIOUS / VARIOUS	C / FFP	NAVAIR	May 2015	Aug 2015	1	374,000.00	Y		Apr 2015
4.1) S7046 - EPUK HW/SW ⁽⁴⁾		2016	VARIOUS / VARIOUS	C / FFP	NAVAIR	May 2016	Aug 2016	1	192,767.00	Y		Apr 2016
4.1) S7046 - EPUK HW/SW ⁽⁴⁾		2017	VARIOUS / VARIOUS	C / FFP	NAVAIR	May 2017	Aug 2017	1	1,914K	Y		Apr 2017
5) Automated Data Capture System (ADCS)												
5.1) S7047 - ADCS HW/SW		2015	CACI / CACI	C / FFP	ARMY	Feb 2015	Mar 2015	1	207,000.00	Y		Jan 2015
6) Condition Based Maintenance Plus (CBM+)												
6.1) S7048 - CBM+ HW/SW ⁽⁵⁾		2016	VARIOIUS / VARIOUS	Various	NAVAIR	Feb 2016	Apr 2016	1	168,000.00	Y		Nov 2015
6.1) S7048 - CBM+ HW/SW ⁽⁵⁾		2017	VARIOIUS / VARIOUS	Various	NAVAIR	Feb 2017	Apr 2017	1	154,437.00	Y		Nov 2016

Footnotes:

(8) Award date moved from May to August due to changes in technology and thus a requirement to request new quotes from the original equipment manufacturer.

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4268 / Aviation Support Equipment										Item Number / Title [DODIC]: 1 / Aviation Life Support							
ID Code (A=Service Ready, B=Not Service Ready) :													MDAP/MAIS Code:							
Resource Summary			Prior Years			FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total						
Procurement Quantity (<i>Units in Each</i>)						-		-		-		-		-						
Gross/Weapon System Cost (\$ in Millions)						0.000		28.602		30.586		22.528		-			22.528			
Less PY Advance Procurement (\$ in Millions)						-		-		-		-		-			-			
Net Procurement (P-1) (\$ in Millions)						0.000		28.602		30.586		22.528		-			22.528			
Plus CY Advance Procurement (\$ in Millions)						-		-		-		-		-			-			
Total Obligation Authority (\$ in Millions)						0.000		28.602		30.586		22.528					22.528			
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total				
	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$)	Qty (<i>Each</i>)	Total Cost (\$ M)		
Hardware - Survival Electronics Cost																				
Recurring Cost																				
1.1.1) CSEL - SY060 ^(†)	-	-	0.000	8,250.00	49	0.404	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.404</i>	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Subtotal: Hardware - Survival Electronics Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.404</i>	-	-	-	-	-	-	-	-	-	-	-	-		
Hardware - Helmets, Hearing and Display Cost																				
Recurring Cost																				
2.1.2) JHMCS Night Vision - SY215 ^{(†)(9)}	-	-	0.000	168,000.00	120	20.160	163,600.00	85	13.906	190,140.00	50	9.507	-	-	-	190,140.00	50	9.507		
2.1.3) FDC - SY505 ^{(†)(10)}	-	-	0.000	15,000.00	100	1.500	7,255.05	1,039	7.538	7,064.17	1,200	8.477	-	-	-	7,064.17	1,200	8.477		
2.1.4) EKB - SY450 ^{(†)(11)}	-	-	0.000	-	-	-	1,905.52	1,736	3.308	-	-	-	-	-	-	-	-	-		
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>21.660</i>	-	-	<i>24.752</i>	-	-	<i>17.984</i>	-	-	-	-	-	<i>17.984</i>		
<i>Subtotal: Hardware - Helmets, Hearing and Display Cost</i>	-	-	<i>0.000</i>	-	-	<i>21.660</i>	-	-	<i>24.752</i>	-	-	<i>17.984</i>	-	-	-	-	-	<i>17.984</i>		
Support - Production Support Cost																				
4.1) Survival Electronics - SY830	-	-	0.000	-	-	0.258	-	-	-	-	-	-	-	-	-	-	-	-		
4.2) Helmets, Hearing and Displays - SY830 ⁽¹²⁾	-	-	0.000	-	-	6.280	-	-	5.834	-	-	4.544	-	-	-	-	-	4.544		

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Exhibit P-5, Cost Analysis: PB 2017 Navy												Date: February 2016											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4268 / Aviation Support Equipment								Item Number / Title [DODIC]: 1 / Aviation Life Support											
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)					
<i>Subtotal: Support - Production Support Cost</i>	-	-	0.000	-	-	6.538	-	-	5.834	-	-	4.544	-	-	-	-	-	4.544					
Gross/Weapon System Cost	-	-	0.000	-	-	28.602	-	-	30.586	-	-	22.528	-	-	-	-	-	22.528					

(†) indicates the presence of a P-5a

Footnotes:

(9) SY215 JHMCS: Quantity and unit prices in FY15-FYDP adjusted to reflect revised negotiated contract pricing. Unit costs and quantities vary due to quantity based step-ladder pricing.

(10) SY505 FDC: Unit cost and quantities vary depending on mix of AHP, THP and improved head protection devices being procured.

(11) SY450 EKB: EKB hardware costs realigned to BLI 2876 starting in FY17.

(12) SY830 Production Support: Cost decrease from FY16-FY17 is secondary to the EKB program and associated Production Support costs being realigned to BLI 2876.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4268 / Aviation Support Equipment					Item Number / Title [DODIC]: 1 / Aviation Life Support				
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
1.1.1) CSEL - SY060		2015	Boeing / Huntington Beach, CA	SS / FFP	NAVAIR	Jul 2015	Nov 2015	49	8,250.00	Y		Oct 2011
2.1.2) JHMCS Night Vision - SY215 ^(t)		2015 ⁽¹³⁾	Rockwell Collins - ESA Vision Systems / Dallas Ft. Worth, Texas	SS / FFP	NAVAIR	Mar 2016	Mar 2017	120	168,000.00	Y		Dec 2014
2.1.2) JHMCS Night Vision - SY215 ^(t)		2016	Rockwell Collins - ESA Vision Systems / Dallas Ft. Worth, Texas	SS / FFP	NAVAIR	Mar 2016	Mar 2017	85	163,600.00	Y		Dec 2014
2.1.2) JHMCS Night Vision - SY215 ^(t)		2017	Rockwell Collins - ESA Vision Systems / Dallas Ft. Worth, Texas	SS / FFP	NAVAIR	Mar 2017	Mar 2018	50	190,140.00	Y		Dec 2014
2.1.3) FDC - SY505 ^(t)		2015 ⁽¹⁴⁾	Creare / Hanover, NH	SS / FFP	NAWCADLKE	Jan 2016	Mar 2016	100	15,000.00	Y		Oct 2014
2.1.3) FDC - SY505 ^(t)		2016	Creare / Hanover, NH	SS / FFP	NAWCADLKE	Mar 2016	May 2016	1,039	7,255.05	Y		Oct 2015
2.1.3) FDC - SY505 ^(t)		2017	Creare / Hanover, NH	SS / FFP	NAWCADLKE	Mar 2017	May 2017	1,200	7,064.17	Y		Oct 2015
2.1.4) EKB - SY450		2016	TBD / TBD	C / TBD	NAWCAD	Apr 2016	May 2016	1,736	1,905.52	Y		Oct 2015

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

Footnotes:

⁽¹³⁾ Contract award delayed until March 2016 pending JHMCS/NVCD FRP1 decision review.

⁽¹⁴⁾ Contract award moved from Jan 2015 to Jan 2016 due to continued delays to the novation effort.

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Exhibit P-21, Production Schedule: PB 2017 Navy																				Date: February 2016																																															
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4268 / Aviation Support Equipment										Item Number / Title [DODIC]: 1 / Aviation Life Support																																															
Cost Elements (Units in Each)							Fiscal Year 2015												Fiscal Year 2016											B A L A N C E																																					
O C R O #	M F R	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	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																																					
2.1.2) JHMCS Night Vision - SY215 ⁽⁹⁾																				A -		-		-		-		-		-		120																																			
1	2015	NAVY		120	-	120															A -	-	-	-	-	-	-	-	-	-	-	120																																			
1	2016	NAVY		85	-	85															A -	-	-	-	-	-	-	-	-	-	-	85																																			
1	2017	NAVY		50	-	50																												50																																	
2.1.3) FDC - SY505 ⁽¹⁰⁾																				A -		-		100								-																																			
2	2015	NAVY		100	-	100															A -	-	87	87	87	87	87	87	87	87	87	87	604																																		
2	2016	NAVY		1,039	-	1,039															A -	-	87	87	87	87	87	87	87	87	87	87	1,200																																		
																				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 2017 Navy																					Date: February 2016																		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4268 / Aviation Support Equipment										Item Number / Title [DODIC]: 1 / Aviation Life Support																			
Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018																				
O C R O #	M F R	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018											B A L A N C E									
O C R O #	M F R	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	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									
2.1.2) JHMCS Night Vision - SY215 ⁽⁹⁾																																							
1	2015	NAVY	120	-	120	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10										
1	2016	NAVY	85	-	85	-	-	-	-	-	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7									
1	2017	NAVY	50	-	50						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	4	4	4						
2.1.3) FDC - SY505 ⁽¹⁰⁾																																							
2	2015	NAVY	100	100	-																																		
2	2016	NAVY	1,039	435	604	87	87	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86								
2	2017	NAVY	1,200	-	1,200						A -	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100								
O C R O #	M F R	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	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 2017 Navy																				Date: February 2016																			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4268 / Aviation Support Equipment										Item Number / Title [DODIC]: 1 / Aviation Life Support																			
Cost Elements (Units in Each)							Fiscal Year 2019												Fiscal Year 2020																				
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	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	B A L A N C E									
2.1.2) JHMCS Night Vision - SY215 ⁽⁹⁾																														-									
1	2015	NAVY	120	120	-																								-										
1	2016	NAVY	85	85	-																								-										
1	2017	NAVY	50	30	20	4	4	4	4	4											-																		
2.1.3) FDC - SY505 ⁽¹⁰⁾																														-									
2	2015	NAVY	100	100	-																								-										
2	2016	NAVY	1,039	1,039	-																								-										
2	2017	NAVY	1,200	1,200	-																								-										
							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 2017 Navy										Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4268 / Aviation Support Equipment						Item Number / Title [DODIC]: 1 / Aviation Life Support							
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)												
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	Rockwell Collins - ESA Vision Systems - Dallas Ft. Worth, Texas	4	120	240	-	-	-	-	-	6	12		18				
2	Creare - Hanover, NH	50	900	3,500	11	3	2	5	-	4	2		6				

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Navy													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4268 / Aviation Support Equipment										Item Number / Title [DODIC]: 2 / Portable Electronic Maintenance Aids					
ID Code (A=Service Ready, B=Not Service Ready) :													MDAP/MAIS Code:					
Resource Summary				Prior Years			FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total			
Procurement Quantity (<i>Units in Each</i>)				-			-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				0.000			9.146		7.762		7.280		-		7.280			
Less PY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				0.000			9.146		7.762		7.280		-		7.280			
Plus CY Advance Procurement (\$ in Millions)				-			-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				0.000			9.146		7.762		7.280		-		7.280			
(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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Hardware - Hardware PEMA Cost																		
Recurring Cost																		
1.1.1) S6001 Portable Electronic Maintenance Aids (PEMAs) ^(†)	-	-	0.000	3,552.63	1,672	5.940	3,792.18	1,612	6.113	3,835.96	1,449	5.558	-	-	-	3,835.96	1,449	5.558
1.1.2) S6002 CH/MH-53 PEMAs ^{(†) (15)}	-	-	0.000	3,750.74	337	1.264	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>7.204</i>	-	-	<i>6.113</i>	-	-	<i>5.558</i>	-	-	-	-	-	<i>5.558</i>
<i>Subtotal: Hardware - Hardware PEMA Cost</i>	-	-	<i>0.000</i>	-	-	<i>7.204</i>	-	-	<i>6.113</i>	-	-	<i>5.558</i>	-	-	-	-	-	<i>5.558</i>
Support - Production Cost																		
2.1) S6820 Portable Electronic Maintenance Aids (PEMAs) Support	-	-	0.000	-	-	1.806	-	-	1.649	-	-	1.722	-	-	-	-	-	1.722
2.2) S6830 CH/MH-53 PEMAs Support	-	-	0.000	-	-	0.136	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Cost</i>	-	-	<i>0.000</i>	-	-	<i>1.942</i>	-	-	<i>1.649</i>	-	-	<i>1.722</i>	-	-	-	-	-	<i>1.722</i>
Gross/Weapon System Cost	-	-	0.000	-	-	9.146	-	-	7.762	-	-	7.280	-	-	-	-	-	7.280
Remarks:																		
[Hardware] Quantities of PEMAs are derived from actual current inventory, as reported by the fleet in the mandated asset tracking system Support Equipment Management System (SEMS). This program is a replenishment of these fielded systems on a one for one basis as required.																		

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Exhibit P-5, Cost Analysis: PB 2017 Navy		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3	P-1 Line Item Number / Title: 4268 / Aviation Support Equipment	Item Number / Title [DODIC]: 2 / Portable Electronic Maintenance Aids
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

(†) indicates the presence of a P-5a

Footnotes:

(15) Omnibus Reprogramming of FY15 \$1.4M to procure 337 PEMAs for initial outfitting of CH/MH-53 helicopter program.

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Exhibit P-5a, Procurement History and Planning: PB 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4268 / Aviation Support Equipment					Item Number / Title [DODIC]: 2 / Portable Electronic Maintenance Aids				
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
1.1.1) S6001 Portable Electronic Maintenance Aids (PEMAs) ^(†)		2015 ⁽¹⁶⁾	Panasonic of North America / Secaucus, NJ	C / IDIQ	NAWCAD LKE	Dec 2014	Feb 2015	1,672	3,552.63	Y		Dec 2014
1.1.1) S6001 Portable Electronic Maintenance Aids (PEMAs) ^(†)		2016	Panasonic of North America / Secaucus, NJ	C / IDIQ	NAWCAD LKE	Dec 2015	Feb 2016	1,612	3,792.18	Y		Dec 2015
1.1.1) S6001 Portable Electronic Maintenance Aids (PEMAs) ^(†)		2017	Panasonic of North America / Secaucus, NJ	C / IDIQ	NAWCAD LKE	Dec 2016	Feb 2017	1,449	3,835.96	Y		Dec 2016
1.1.2) S6002 CH/MH-53 PEMAs ^(†)		2015 ⁽¹⁷⁾	Panasonic of North America / Secaucus, NJ	C / IDIQ	NAWCAD LKE	Jan 2016	Mar 2016	337	3,750.74	Y		Dec 2015

^(†) indicates the presence of a P-21

Footnotes:

⁽¹⁶⁾ Market research and analysis testing is conducted to determine who will serve as the distributor for Panasonic on each FY IDIQ contract.

⁽¹⁷⁾ Omnibus Reprogramming of FY15 \$1.4M to procure 337 PEMAs for initial outfitting of CH/MH-53 helicopter program.

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Exhibit P-21, Production Schedule: PB 2017 Navy																					Date: February 2016																						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4268 / Aviation Support Equipment										Item Number / Title [DODIC]: 2 / Portable Electronic Maintenance Aids																							
Cost Elements (Units in Each)						Fiscal Year 2015														Fiscal Year 2016																							
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016														B A L A N C E									
OCT T						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														
1.1.1) S6001 Portable Electronic Maintenance Aids (PEMAs)						1	2015	NAVY	1,672	-	1,672		A -	-	140	140	140	140	140	140	140	140	140	140	140	140	140	132									-						
1.1.2) S6002 CH/MH-53 PEMAs ⁽¹⁵⁾						1	2016	NAVY	1,612	-	1,612																										532						
1.1.3) S6003 CH/MH-53 PEMAs ⁽¹⁵⁾						1	2017	NAVY	1,449	-	1,449																										1,449						
1.1.4) S6004 CH/MH-53 PEMAs ⁽¹⁵⁾						2	2015	NAVY	337	-	337																											140					
1.1.5) S6005 CH/MH-53 PEMAs ⁽¹⁵⁾						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 2017 Navy																									Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3										P-1 Line Item Number / Title: 4268 / Aviation Support Equipment															Item Number / Title [DODIC]: 2 / Portable Electronic Maintenance Aids									
Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018															
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	FY	Calendar Year 2017												Calendar Year 2018										B A L A N C E					
1.1.1) S6001 Portable Electronic Maintenance Aids (PEMAs)	1	2015	NAVY	1,672	1,672	-																							-					
	1	2016	NAVY	1,612	1,080	532	135	135	135	127													-											
	1	2017	NAVY	1,449	-	1,449	A -	-	121	121	121	121	121	121	121	121	121	121	121	121	121	121	118	-										
1.1.2) S6002 CH/MH-53 PEMAs ⁽¹⁵⁾	2	2015	NAVY	337	197	140	28	28	28	28																							-	
							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 2017 Navy								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4268 / Aviation Support Equipment					Item Number / Title [DODIC]: 2 / Portable Electronic Maintenance Aids				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	Panasonic of North America - Secaucus, NJ	500	2,000	5,000	-	-	-	-	-	3	2	5
2	Panasonic of North America - Secaucus, NJ	500	2,000	5,000	-	-	-	-	-	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-3a, Individual Modification: PB 2017 Navy									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4268 / Aviation Support Equipment						Modification Number / Title: 1 / ALIS SHIP INSTALLATION			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	5.516	3.893	2.061	-	2.061	3.855	3.727	3.821	3.895	2.865	29.633
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	5.516	3.893	2.061	-	2.061	3.855	3.727	3.821	3.895	2.865	29.633
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	5.516	3.893	2.061	-	2.061	3.855	3.727	3.821	3.895	2.865	29.633
(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)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

[ALIS - Program Support] Autonomic Logistics Information System (ALIS) Ship Integration - CVN, LHD, LHA: ALIS controls all aspects of F-35 mission planning, maintenance, logistics, and supply functions. Funding for ALIS Ship Integration efforts (Programmatic Support, Engineering Support Services, Material, and Installation efforts) will enable shipboard (CVN, LHD, LHA) modification, classified/unclassified network integration, the installation of ALIS-related shipboard equipment, ALIS security accreditation, and verification of ALIS operation and functionality to include the integration of ALIS with shipboard Command, Control, Communications and Computers & Intelligence (C4I) Networks and the Prognostic Health Management (PHM) downlink. At the completion of each installation, the respective ship's ALIS will enable the F-35 system to provide, at the appropriate security levels via Navy Local Area Networks (LANs)/Wide Area Networks (WANs), the ability to transfer time-sensitive data for logistics support, mission planning, mission execution, and mission debriefing.

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Exhibit P-3a, Individual Modification: PB 2017 Navy										Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3			P-1 Line Item Number / Title: 4268 / Aviation Support Equipment						Modification Number / Title: 1 / ALIS SHIP INSTALLATION								
Models of Systems Affected: CVN, LHD, & LHA			Modification Type: Add Capability						Related RDT&E PEs:								
		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total				
Financial Plan		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)				
Procurement																	
<i>Modification Item 1 of 1: ALIS SHIP INSTALLATION</i>																	
B Kits																	
Recurring																	
1.1.1) Installation Material - NonOrganic ⁽¹⁸⁾		- / -	4 / 0.160	2 / 0.080	- / -	- / -	- / -	2 / 0.080	2 / 0.080	2 / 0.080	1 / 0.040	- / -	13 / 0.520				
<i>Subtotal: Recurring</i>		- / 0.000	- / 0.160	- / 0.080	- / -	- / -	- / -	- / 0.080	- / 0.080	- / 0.080	- / 0.040	- / -	- / 0.520				
<i>Subtotal: ALIS SHIP INSTALLATION</i>		- / -	4 / 0.160	2 / 0.080	- / -	- / -	- / -	2 / 0.080	2 / 0.080	2 / 0.080	1 / 0.040	- / -	13 / 0.520				
<i>Subtotal: Procurement, All Modification Items</i>		- / 0.000	- / 0.160	- / 0.080	- / -	- / -	- / -	- / 0.080	- / 0.080	- / 0.080	- / 0.040	- / -	- / 0.520				
Support (All Modification Items)																	
2.1) ALIS - Program Support ⁽¹⁹⁾		- / 0.000	- / 0.830	- / 0.865	- / 0.787	- / -	- / 0.787	- / 0.800	- / 0.803	- / 0.760	- / 0.828	- / 1.166	- / 6.839				
2.2) ALIS - Production Engineering Support ⁽²⁰⁾		- / 0.000	- / 0.549	- / 1.024	- / 0.945	- / -	- / 0.945	- / 0.951	- / 0.954	- / 1.048	- / 1.055	- / 1.699	- / 8.225				
<i>Subtotal: Support</i>		- / 0.000	- / 1.379	- / 1.889	- / 1.732	- / -	- / 1.732	- / 1.751	- / 1.757	- / 1.808	- / 1.883	- / 2.865	- / 15.064				
Installation																	
<i>Modification Item 1 of 1: ALIS SHIP INSTALLATION</i>		- / 0.000	- / 3.977	- / 1.924	- / 0.329	- / -	- / 0.329	- / 2.024	- / 1.890	- / 1.933	- / 1.972	- / -	- / 14.049				
<i>Subtotal: Installation</i>		- / 0.000	- / 3.977	- / 1.924	- / 0.329	- / -	- / 0.329	- / 2.024	- / 1.890	- / 1.933	- / 1.972	- / -	- / 14.049				
Total																	
Total Cost (Procurement + Support + Installation)		0.000	5.516	3.893	2.061	-	2.061	3.855	3.727	3.821	3.895	2.865	29.633				

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Exhibit P-3a, Individual Modification: PB 2017 Navy														Date: February 2016																	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 03 / 3				P-1 Line Item Number / Title: 4268 / Aviation Support Equipment										Modification Number / Title: 1 / ALIS SHIP INSTALLATION																	
Modification Item 1 of 1: ALIS SHIP INSTALLATION																															
Manufacturer Information																															
Manufacturer Name: NAWC AD 4.5.10														Manufacturer Location: St. Inigoes, NAS Patuxent River MD																	
Administrative Leadtime (<i>in Months</i>): 2														Production Leadtime (<i>in Months</i>): 4																	
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021																								
Contract Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019	Dec 2020																								
Delivery Dates	Apr 2015	Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021																								
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Installation Material																															
			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total																	
Installation Cost			Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)														
Prior Years			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2015			- / -	4 / 3.977	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 3.977														
FY 2016			- / -	- / -	2 / 1.924	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.924														
FY 2017			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2018			- / -	- / -	- / -	- / 0.329	- / -	- / 0.329	2 / 2.024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.353														
FY 2019			- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.890	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.890														
FY 2020			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.933	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.933														
FY 2021			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.972	- / -	- / -	- / -	- / -	- / -	1 / 1.972														
To Complete			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
Total			- / -	4 / 3.977	2 / 1.924	- / 0.329	- / -	- / 0.329	2 / 2.024	2 / 1.890	2 / 1.933	1 / 1.972	- / -	- / -	- / -	- / -	13 / 14.049														
Installation Schedule																															
			FY 2015		FY 2016		FY 2017		FY 2018		FY 2019		FY 2020		FY 2021																
PYS		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot												
In		-	-	-	4	-	-	1	1	-	-	-	-	2	-	-	2	-	-	1	-	-	13								
Out		-	-	-	-	4	-	-	-	1	1	-	-	2	-	-	2	-	-	1	-	-	13								
Footnotes:																															
(18) FY 2017 requested funding supports Design Support Activities (DSA) to include material purchases for the installation of two (2) ALIS in FY2018.																															
(19) FY 2017 requested funding supports Design Support Activities (DSA) to include Alteration Installation Team support for the installation of two (2) ALIS in FY 2018.																															
(20) FY 2017 requested funding supports Design Support Activities (DSA) to include Ship Installation Drawings and Ship check in support of installation of two (2) ALIS in FY 2018.																															