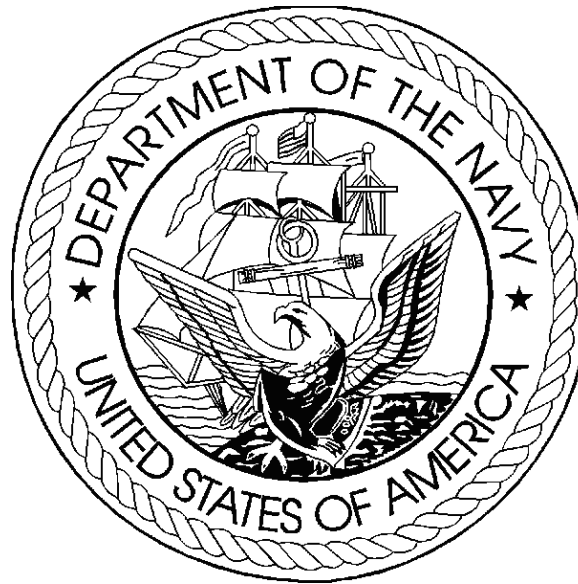


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**Department of Defense
Fiscal Year (FY) 2016 President's Budget Submission**

February 2015



Navy

Justification Book Volume 2 of 5

Other Procurement, Navy

Budget Activity 02

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The estimated total cost for producing the Department of Navy budget justification material is approximately \$1,436,000 for the 2015 fiscal year.
This includes \$74,000 in supplies and \$1,362,000 in labor.

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Navy • President's Budget Submission FY 2016 • Procurement

Volume 2 Table of Contents

Introduction and Explanation of Contents.....Volume 2 - iii

Comptroller Exhibit P-1.....Volume 2 - v

Master Line Item Table of Contents (by Appropriation then Line Number).....Volume 2 - xxxi

Master Line Item Table of Contents (Alphabetically by Line Item Title).....Volume 2 - xliii

Line Item Table of Contents (by Appropriation then Line Number)..... Volume 2 - liii

Line Item Table of Contents (Alphabetically by Line Item Title).....Volume 2 - lvii

Exhibit P-40s..... Volume 2 - 1

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Department of Defense Appropriations Act, 2016

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, \$6,626,901,000, to remain available for obligation until September 30, 2018.

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Department of the Navy
 FY 2016 President's Budget
 Exhibit P-1 FY 2016 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

09 Jan 2015

Appropriation -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
Other Procurement, Navy	5,689,605	5,846,558	123,710	5,970,268
Total Department of the Navy	5,689,605	5,846,558	123,710	5,970,268

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
Other Procurement, Navy	6,614,715	12,186	6,626,901
Total Department of the Navy	6,614,715	12,186	6,626,901

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
01. Ships Support Equipment	1,451,727	1,826,087	8,210	1,834,297
02. Communications & Electronics Equip	2,092,833	2,224,244	5,870	2,230,114
03. Aviation Support Equipment	461,283	369,182		369,182
04. Ordnance Support Equipment	871,905	581,412	103,930	685,342
05. Civil Engineering Support Equip	79,117	53,042	3,300	56,342
06. Supply Support Equipment	55,005	88,200		88,200
07. Personnel & Command Support Equip	432,019	379,307		381,707
08. Spares and Repair Parts	245,716	325,084		325,084
Total Other Procurement, Navy	5,689,605	5,846,558	123,710	5,970,268

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Department of the Navy
 FY 2016 President's Budget
 Exhibit P-1 FY 2016 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

09 Jan 2015

Appropriation: Other Procurement, Navy

Budget Activity -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
01. Ships Support Equipment	1,902,164		1,902,164
02. Communications & Electronics Equip	2,382,342		2,382,342
03. Aviation Support Equipment	419,225		419,225
04. Ordnance Support Equipment	874,442		874,442
05. Civil Engineering Support Equip	54,933	186	55,119
06. Supply Support Equipment	246,708		246,708
07. Personnel & Command Support Equip	406,858		418,858
08. Spares and Repair Parts	328,043		328,043
Total Other Procurement, Navy	6,614,715	12,186	6,626,901

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-
Budget Activity 01: Ships Support Equipment							

Ship Propulsion Equipment							
1	LM-2500 Gas Turbine	A	9,022	7,822		7,822	U
2	Allison 501k Gas Turbine	A	5,536	2,155		2,155	U
3	Hybrid Electric Drive (HED)			12,638		12,638	U
Generators							
4	Surface Combatant HM&E	A	16,129	26,664		26,664	U
Navigation Equipment							
5	Other Navigation Equipment	A	33,386	39,298		39,298	U
Periscopes							
6	Sub Periscopes & Imaging Equip	A	45,704	57,221		57,221	U
Other Shipboard Equipment							
7	DDG Mod	A	285,994	324,219		324,219	U
8	Firefighting Equipment	A	14,389	15,134		15,134	U
9	Command and Control Switchboard	A	2,436	2,219		2,219	U
10	LHA/LHD Midlife	A	6,350	14,048		14,048	U
11	LCC 19/20 Extended Service Life Program	A	37,329	22,025		22,025	U
12	Pollution Control Equipment	B	17,514	10,146		10,146	U
13	Submarine Support Equipment	A	10,074	11,815		11,815	U
14	Virginia Class Support Equipment	A	69,341	70,689		70,689	U
15	LCS Class Support Equipment		47,078	25,742		25,742	U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
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Budget Activity 01: Ships Support Equipment									

Ship Propulsion Equipment									
1	LM-2500 Gas Turbine	A		4,881			4,881		U
2	Allison 501k Gas Turbine	A		5,814			5,814		U
3	Hybrid Electric Drive (HED)			32,906			32,906		U
Generators									
4	Surface Combatant HM&E	A		36,860			36,860		U
Navigation Equipment									
5	Other Navigation Equipment	A		87,481			87,481		U
Periscopes									
6	Sub Periscopes & Imaging Equip	A		63,109			63,109		U
Other Shipboard Equipment									
7	DDG Mod	A		364,157			364,157		U
8	Firefighting Equipment	A		16,089			16,089		U
9	Command and Control Switchboard	A		2,255			2,255		U
10	LHA/LHD Midlife	A		28,571			28,571		U
11	LCC 19/20 Extended Service Life Program	A		12,313			12,313		U
12	Pollution Control Equipment	B		16,609			16,609		U
13	Submarine Support Equipment	A		10,498			10,498		U
14	Virginia Class Support Equipment	A		35,747			35,747		U
15	LCS Class Support Equipment			48,399			48,399		U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Volume 2 - x

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
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16	Submarine Batteries		37,000	36,352		36,352	U
17	LPD Class Support Equipment		20,425	39,519		39,519	U
18	Strategic Platform Support Equip	A	12,986	11,558		11,558	U
19	DSSP Equipment	A	2,455	5,518		5,518	U
20	CG Modernization	A	10,539				U
21	LCAC	A	14,431	7,158		7,158	U
22	Underwater Eod Programs		31,513	50,366	8,210	58,576	U
23	Items Less Than \$5 Million	A	68,590	62,772		62,772	U
24	Chemical Warfare Detectors	A	4,413	2,937		2,937	U
25	Submarine Life Support System	A	8,292	8,385		8,385	U
	Reactor Plant Equipment						
26	Reactor Power Units	A		298,200		298,200	U
27	Reactor Components	A	256,744	288,822		288,822	U
	Ocean Engineering						
28	Diving and Salvage Equipment	A	5,588	10,572		10,572	U
	Small Boats						
29	Standard Boats	A	28,676	126,445		126,445	U
	Training Equipment						
30	Other Ships Training Equipment	A	32,845	17,152		17,152	U
	Production Facilities Equipment						
31	Operating Forces Ipe	A	46,868	39,409		39,409	U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Volume 2 - xi

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
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16	Submarine Batteries			23,072			23,072		U
17	LPD Class Support Equipment			55,283			55,283		U
18	Strategic Platform Support Equip	A		18,563			18,563		U
19	DSSP Equipment	A		7,376			7,376		U
20	CG Modernization	A							U
21	LCAC	A		20,965			20,965		U
22	Underwater Eod Programs			51,652			51,652		U
23	Items Less Than \$5 Million	A		102,498			102,498		U
24	Chemical Warfare Detectors	A		3,027			3,027		U
25	Submarine Life Support System	A		7,399			7,399		U
	Reactor Plant Equipment								
26	Reactor Power Units	A							U
27	Reactor Components	A		296,095			296,095		U
	Ocean Engineering								
28	Diving and Salvage Equipment	A		15,982			15,982		U
	Small Boats								
29	Standard Boats	A		29,982			29,982		U
	Training Equipment								
30	Other Ships Training Equipment	A		66,538			66,538		U
	Production Facilities Equipment								
31	Operating Forces Ipe	A		71,138			71,138		U

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
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Other Ship Support							
32	Nuclear Alterations	A	106,328	118,129		118,129	U
33	LCS Common Mission Modules Equipment		35,966	30,938		30,938	U
34	LCS MCM Mission Modules		34,885	15,270		15,270	U
35	LCS SUW Mission Modules		19,481	14,750		14,750	U
36	Remote Minehunting System (RMS)	A					U
Logistic Support							
37	LSD Midlife		73,420				U
Total Ships Support Equipment			1,451,727	1,826,087	8,210	1,834,297	
Budget Activity 02: Communications & Electronics Equip							

Ship Sonars							
38	SPQ-9B Radar	A	27,934	26,735		26,735	U
39	AN/SQQ-89 Surf ASW Combat System	A	83,231	78,802		78,802	U
40	SSN Acoustics	A	175,852	160,932		160,932	U
41	Undersea Warfare Support Equipment	A	15,869	4,663		4,663	U
42	Sonar Switches and Transducers	A	12,953	11,621		11,621	U
43	Electronic Warfare MILDEC	A	8,958				U
ASW Electronic Equipment							
44	Submarine Acoustic Warfare System	A	20,937	22,721		22,721	U
45	SSTD	A		10,653		10,653	U
46	Fixed Surveillance System	A	94,338	170,831		170,831	U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
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Other Ship Support									
32	Nuclear Alterations	A		132,625			132,625		U
33	LCS Common Mission Modules Equipment			23,500			23,500		U
34	LCS MCM Mission Modules			85,151			85,151		U
35	LCS SUW Mission Modules			35,228			35,228		U
36	Remote Minehunting System (RMS)	A		87,627			87,627		U
Logistic Support									
37	LSD Midlife			2,774			2,774		U
Total Ships Support Equipment				1,902,164			1,902,164		
Budget Activity 02: Communications & Electronics Equip									

Ship Sonars									
38	SPQ-9B Radar	A		20,551			20,551		U
39	AN/SQQ-89 Surf ASW Combat System	A		103,241			103,241		U
40	SSN Acoustics	A		214,835			214,835		U
41	Undersea Warfare Support Equipment	A		7,331			7,331		U
42	Sonar Switches and Transducers	A		11,781			11,781		U
43	Electronic Warfare MILDEC	A							U
ASW Electronic Equipment									
44	Submarine Acoustic Warfare System	A		21,119			21,119		U
45	SSTD	A		8,396			8,396		U
46	Fixed Surveillance System	A		146,968			146,968		U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
47	SURTASS	A	9,545	9,619		9,619	U
48	Maritime Patrol and Reconnaissance Force Electronic Warfare Equipment	A	18,130	14,390		14,390	U
49	AN/SLQ-32 Reconnaissance Equipment	A	150,353	195,082		195,082	U
50	Shipboard IW Exploit	A	100,736	123,362		123,362	U
51	Automated Identification System (AIS) Submarine Surveillance Equipment		896	164		164	U
52	Submarine Support Equipment Prog Other Ship Electronic Equipment	A	44,464	36,938		36,938	U
53	Cooperative Engagement Capability	B	29,592	33,939		33,939	U
54	Trusted Information System (TIS)		396	324		324	U
55	Naval Tactical Command Support System (NTCSS)	A	14,302	18,192		18,192	U
56	ATDLS	A	3,836	16,768		16,768	U
57	Navy Command and Control System (NCCS)		7,201	5,219		5,219	U
58	Minesweeping System Replacement	A	54,900	40,482		40,482	U
59	Shallow Water MCM	B	12,748				U
60	Navstar GPS Receivers (SPACE)	A	11,765	15,232		15,232	U
61	American Forces Radio and TV Service	A	6,483	4,524		4,524	U
62	Strategic Platform Support Equip	A	7,631	6,382		6,382	U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Volume 2 - xv

UNCLASSIFIED

Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
----	-----	-----	-----	-----	-----	-----	-----	-----	-
47	SURTASS	A		12,953			12,953		U
48	Maritime Patrol and Reconnaissance Force Electronic Warfare Equipment	A		13,725			13,725		U
49	AN/SLQ-32 Reconnaissance Equipment	A		324,726			324,726		U
50	Shipboard IW Exploit	A		148,221			148,221		U
51	Automated Identification System (AIS) Submarine Surveillance Equipment			152			152		U
52	Submarine Support Equipment Prog Other Ship Electronic Equipment	A		79,954			79,954		U
53	Cooperative Engagement Capability	B		25,695			25,695		U
54	Trusted Information System (TIS)			284			284		U
55	Naval Tactical Command Support System (NTCSS)	A		14,416			14,416		U
56	ATDLS	A		23,069			23,069		U
57	Navy Command and Control System (NCCS)			4,054			4,054		U
58	Minesweeping System Replacement	A		21,014			21,014		U
59	Shallow Water MCM	B		18,077			18,077		U
60	Navstar GPS Receivers (SPACE)	A		12,359			12,359		U
61	American Forces Radio and TV Service	A		4,240			4,240		U
62	Strategic Platform Support Equip	A		17,440			17,440		U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-
	Training Equipment						
63	Other Training Equipment	A	40,644	42,810		42,810	U
	Aviation Electronic Equipment						
64	Matcals	A	8,953	16,999		16,999	U
65	Shipboard Air Traffic Control	B	8,675	9,366		9,366	U
66	Automatic Carrier Landing System	A	20,758	21,357		21,357	U
67	National Air Space System	B	16,870	26,639		26,639	U
68	Fleet Air Traffic Control Systems	A	8,909	9,214		9,214	U
69	Landing Systems	A	13,486	13,902		13,902	U
70	ID Systems	A	34,818	28,543		28,543	U
71	Naval Mission Planning Systems	A	14,131	13,950		13,950	U
	Other Shore Electronic Equipment						
72	Deployable Joint Command & Control	A	3,249	1,205		1,205	U
73	Maritime Integrated Broadcast System		11,646	3,447		3,447	U
74	Tactical/Mobile C4I Systems	A	22,817	16,766		16,766	U
75	DCGS-N	A	17,350	23,649		23,649	U
76	CANES		325,340	335,989		335,989	U
77	RADIAC	A	9,835	5,153		5,153	U
78	CANES-Intell		55,262	61,215		61,215	U
79	GPETE	A	6,253	6,284		6,284	U
80	MASF						U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-----	-----	-
	Training Equipment								
63	Other Training Equipment	A		41,314			41,314		U
	Aviation Electronic Equipment								
64	Matcals	A		10,011			10,011		U
65	Shipboard Air Traffic Control	B		9,346			9,346		U
66	Automatic Carrier Landing System	A		21,281			21,281		U
67	National Air Space System	B		25,621			25,621		U
68	Fleet Air Traffic Control Systems	A		8,249			8,249		U
69	Landing Systems	A		14,715			14,715		U
70	ID Systems	A		29,676			29,676		U
71	Naval Mission Planning Systems	A		13,737			13,737		U
	Other Shore Electronic Equipment								
72	Deployable Joint Command & Control	A		1,314			1,314		U
73	Maritime Integrated Broadcast System								U
74	Tactical/Mobile C4I Systems	A		13,600			13,600		U
75	DCGS-N	A		31,809			31,809		U
76	CANES			278,991			278,991		U
77	RADIAC	A		8,294			8,294		U
78	CANES-Intell			28,695			28,695		U
79	GPETE	A		6,962			6,962		U
80	MASF			290			290		U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

UNCLASSIFIED

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
81	Integ Combat System Test Facility	A	8,143	4,016		4,016	U
82	EMI Control Instrumentation	A	4,664	4,113		4,113	U
83	Items Less Than \$5 Million	A	64,642	58,365	5,870	64,235	U
	Shipboard Communications						
84	Shipboard Tactical Communications	A		14,410		14,410	U
85	Ship Communications Automation	A	23,877	20,830		20,830	U
86	Communications Items Under \$5M	A	28,941	14,145		14,145	U
	Submarine Communications						
87	Submarine Broadcast Support	A	7,856	11,057		11,057	U
88	Submarine Communication Equipment	A	64,376	64,954		64,954	U
	Satellite Communications						
89	Satellite Communications Systems	A	27,381	11,453		11,453	U
90	Navy Multiband Terminal (NMT)		183,620	247,617		247,617	U
	Shore Communications						
91	JCS Communications Equipment	A	4,463	4,369		4,369	U
92	Electrical Power Systems	A	778	1,402		1,402	U
	Cryptographic Equipment						
93	Info Systems Security Program (ISSP)	A	125,902	108,002		108,002	U
94	MIO Intel Exploitation Team	A	1,000	979		979	U
	Cryptologic Equipment						
95	Cryptologic Communications Equip	A	12,251	11,502		11,502	U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
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81	Integ Combat System Test Facility	A		14,419			14,419		U
82	EMI Control Instrumentation	A		4,175			4,175		U
83	Items Less Than \$5 Million	A		44,176			44,176		U
	Shipboard Communications								
84	Shipboard Tactical Communications	A		8,722			8,722		U
85	Ship Communications Automation	A		108,477			108,477		U
86	Communications Items Under \$5M	A		16,613			16,613		U
	Submarine Communications								
87	Submarine Broadcast Support	A		20,691			20,691		U
88	Submarine Communication Equipment	A		60,945			60,945		U
	Satellite Communications								
89	Satellite Communications Systems	A		30,892			30,892		U
90	Navy Multiband Terminal (NMT)			118,113			118,113		U
	Shore Communications								
91	JCS Communications Equipment	A		4,591			4,591		U
92	Electrical Power Systems	A		1,403			1,403		U
	Cryptographic Equipment								
93	Info Systems Security Program (ISSP)	A		135,687			135,687		U
94	MIO Intel Exploitation Team	A		970			970		U
	Cryptologic Equipment								
95	Cryptologic Communications Equip	A		11,433			11,433		U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

UNCLASSIFIED

Volume 2 - xx

UNCLASSIFIED

Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-
	Other Electronic Support						
96	Coast Guard Equipment	A	2,893	2,967		2,967	U
			-----	-----	-----	-----	
	Total Communications & Electronics Equip		2,092,833	2,224,244	5,870	2,230,114	
	Budget Activity 03: Aviation Support Equipment						

	Sonobuoys						
97	Sonobuoys - All Types	A	177,305	182,946		182,946	U
	Aircraft Support Equipment						
98	Weapons Range Support Equipment	A	50,624	47,944		47,944	U
99	Expeditionary Airfields	A	4,676				U
100	Aircraft Support Equipment	A		55,195		55,195	U
101	Aircraft Rearming Equipment	A	11,263				U
102	Aircraft Launch & Recovery Equipment	A	58,110				U
103	Meteorological Equipment	A	19,118	12,825		12,825	U
104	DCRS/DPL	A	1,425	1,415		1,415	U
105	Aviation Life Support	A	29,588				U
106	Airborne Mine Countermeasures	A	77,114	23,152		23,152	U
107	Lamps MK III Shipboard Equipment	A	18,290				U
108	Portable Electronic Maintenance Aids		7,969				U
109	Other Aviation Support Equipment	A	2,412				U
110	Autonomic Logistics Information System (ALIS)		3,389				U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

UNCLASSIFIED

Volume 2 - xxi

UNCLASSIFIED

Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-----	-----	-
	Other Electronic Support								
96	Coast Guard Equipment	A		2,529			2,529		U
				-----		-----	-----		
	Total Communications & Electronics Equip			2,382,342			2,382,342		
	Budget Activity 03: Aviation Support Equipment								

	Sonobuoys								
97	Sonobuoys - All Types	A		168,763			168,763		U
	Aircraft Support Equipment								
98	Weapons Range Support Equipment	A		46,979			46,979		U
99	Expeditionary Airfields	A							U
100	Aircraft Support Equipment	A		123,884			123,884		U
101	Aircraft Rearming Equipment	A							U
102	Aircraft Launch & Recovery Equipment	A							U
103	Meteorological Equipment	A		15,090			15,090		U
104	DCRS/DPL	A		638			638		U
105	Aviation Life Support	A							U
106	Airborne Mine Countermeasures	A		14,098			14,098		U
107	Lamps MK III Shipboard Equipment	A							U
108	Portable Electronic Maintenance Aids								U
109	Other Aviation Support Equipment	A							U
110	Autonomic Logistics Information System (ALIS)								U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

UNCLASSIFIED

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-
111	Aviation Support Equipment	A		45,705		45,705	U
	Total Aviation Support Equipment		461,283	369,182		369,182	
Budget Activity 04: Ordnance Support Equipment							

Ship Gun System Equipment							
112	Ship Gun Systems Equipment	A		5,572		5,572	U
113	Naval Fires Control System	A	1,188				U
114	Gun Fire Control Equipment	A	4,447				U
Ship Missile Systems Equipment							
115	Ship Missile Support Equipment	A		143,570		143,570	U
116	NATO Seasparrow	A	58,368				U
117	RAM GMLS	A	491				U
118	Ship Self Defense System	B	51,858				U
119	AEGIS Support Equipment	A	59,757				U
120	Tomahawk Support Equipment	A	63,371	60,062		60,062	U
121	Vertical Launch Systems	A	626				U
122	Maritime Integrated Planning System-MIPS	A	2,779				U
FBM Support Equipment							
123	Strategic Missile Systems Equip	A	224,484	201,832		201,832	U
ASW Support Equipment							
124	SSN Combat Control Systems	A	73,078	60,767		60,767	U
125	ASW Support Equipment	A		7,559		7,559	U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
111	Aviation Support Equipment	A		49,773			49,773		U
	Total Aviation Support Equipment			419,225			419,225		
Budget Activity 04: Ordnance Support Equipment									

Ship Gun System Equipment									
112	Ship Gun Systems Equipment	A		5,300			5,300		U
113	Naval Fires Control System	A							U
114	Gun Fire Control Equipment	A							U
Ship Missile Systems Equipment									
115	Ship Missile Support Equipment	A		298,738			298,738		U
116	NATO Seasparrow	A							U
117	RAM GMLS	A							U
118	Ship Self Defense System	B							U
119	AEGIS Support Equipment	A							U
120	Tomahawk Support Equipment	A		71,245			71,245		U
121	Vertical Launch Systems	A							U
122	Maritime Integrated Planning System-MIPS	A							U
FBM Support Equipment									
123	Strategic Missile Systems Equip	A		240,694			240,694		U
ASW Support Equipment									
124	SSN Combat Control Systems	A		96,040			96,040		U
125	ASW Support Equipment	A		30,189			30,189		U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-
126	Submarine ASW Support Equipment	A	3,913				U
127	Surface ASW Support Equipment	A	3,909				U
128	ASW Range Support Equipment	A	28,694				U
	Other Ordnance Support Equipment						
129	Explosive Ordnance Disposal Equip	B	148,516	20,619	103,930	124,549	U
130	Items Less Than \$5 Million	A	14,180	10,759		10,759	U
	Other Expendable Ordnance						
131	Anti-Ship Missile Decoy System	A	62,361				U
132	Surface Training Device Mods	A	43,213				U
133	Submarine Training Device Mods	A	26,672				U
134	Training Device Mods	A		70,672		70,672	U
			-----	-----	-----	-----	
	Total Ordnance Support Equipment		871,905	581,412	103,930	685,342	
Budget Activity 05: Civil Engineering Support Equip							

	Civil Engineering Support Equipment						
135	Passenger Carrying Vehicles	A	4,480	2,282		2,282	U
136	General Purpose Trucks	A	3,817	547		547	U
137	Construction & Maintenance Equip	A	12,651	6,187		6,187	U
138	Fire Fighting Equipment	A	14,748	14,621		14,621	U
139	Tactical Vehicles	B	7,039	957		957	U
140	Amphibious Equipment	A	5,741	8,187		8,187	U
141	Pollution Control Equipment	A	3,852	2,942		2,942	U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

UNCLASSIFIED

Volume 2 - xxv

UNCLASSIFIED

Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
-----	-----	-----	-----	----	-----	----	-----	----	-
126	Submarine ASW Support Equipment	A							U
127	Surface ASW Support Equipment	A							U
128	ASW Range Support Equipment	A							U
	Other Ordnance Support Equipment								
129	Explosive Ordnance Disposal Equip	B		22,623			22,623		U
130	Items Less Than \$5 Million	A		9,906			9,906		U
	Other Expendable Ordnance								
131	Anti-Ship Missile Decoy System	A							U
132	Surface Training Device Mods	A							U
133	Submarine Training Device Mods	A							U
134	Training Device Mods	A		99,707			99,707		U
				-----		-----	-----		
	Total Ordnance Support Equipment			874,442			874,442		
Budget Activity 05: Civil Engineering Support Equip									

	Civil Engineering Support Equipment								
135	Passenger Carrying Vehicles	A		2,252		186	2,438		U
136	General Purpose Trucks	A		2,191			2,191		U
137	Construction & Maintenance Equip	A		2,164			2,164		U
138	Fire Fighting Equipment	A		14,705			14,705		U
139	Tactical Vehicles	B		2,497			2,497		U
140	Amphibious Equipment	A		12,517			12,517		U
141	Pollution Control Equipment	A		3,018			3,018		U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-----
142	Items Under \$5 Million	A	25,607	16,142	3,300	19,442	U
143	Physical Security Vehicles	A	1,182	1,177		1,177	U
			-----	-----	-----	-----	
	Total Civil Engineering Support Equip		79,117	53,042	3,300	56,342	
Budget Activity 06: Supply Support Equipment							

Supply Support Equipment							
144	Materials Handling Equipment	A	6,340	10,937		10,937	U
145	Other Supply Support Equipment	A	7,681	6,674		6,674	U
146	First Destination Transportation	A	6,266	5,668		5,668	U
147	Special Purpose Supply Systems	A	34,718	64,921		64,921	U
			-----	-----	-----	-----	
	Total Supply Support Equipment		55,005	88,200		88,200	
Budget Activity 07: Personnel & Command Support Equip							

Training Devices							
148	Training Support Equipment	A	22,527	22,046		22,046	U
Command Support Equipment							
149	Command Support Equipment	A	60,128	24,208		24,208	U
150	Education Support Equipment	A		874		874	U
151	Medical Support Equipment	A	4,925	2,634		2,634	U
153	Naval MIP Support Equipment	A		3,573		3,573	U
154	Operating Forces Support Equipment	A	11,019				U
155	C4ISR Equipment	A		9,788		9,788	U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
142	Items Under \$5 Million	A		14,403			14,403		U
143	Physical Security Vehicles	A		1,186			1,186		U
				-----		-----	-----		
	Total Civil Engineering Support Equip			54,933		186	55,119		
Budget Activity 06: Supply Support Equipment									

	Supply Support Equipment								
144	Materials Handling Equipment	A		18,805			18,805		U
145	Other Supply Support Equipment	A		10,469			10,469		U
146	First Destination Transportation	A		5,720			5,720		U
147	Special Purpose Supply Systems	A		211,714			211,714		U
				-----		-----	-----		
	Total Supply Support Equipment			246,708			246,708		
Budget Activity 07: Personnel & Command Support Equip									

	Training Devices								
148	Training Support Equipment	A		7,468			7,468		U
	Command Support Equipment								
149	Command Support Equipment	A		36,433			36,433		U
150	Education Support Equipment	A		3,180			3,180		U
151	Medical Support Equipment	A		4,790			4,790		U
153	Naval MIP Support Equipment	A		4,608			4,608		U
154	Operating Forces Support Equipment	A		5,655			5,655		U
155	C4ISR Equipment	A		9,929			9,929		U

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 9, 2015 at 15:31:22

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
156	Environmental Support Equipment	A	18,276	21,001		21,001	U
157	Physical Security Equipment	A	116,577	90,957		90,957	U
159	Enterprise Information Technology	A	186,427	87,214		87,214	U
	Other						
160	Next Generation Enterprise Service	A		106,165		106,165	U
999	Classified Programs		12,140	10,847	2,400	13,247	U
	Total Personnel & Command Support Equip		432,019	379,307		381,707	
	Budget Activity 08: Spares and Repair Parts						
	Spares and Repair Parts						
161	Spares and Repair Parts	A	245,716	325,084		325,084	U
	Total Spares and Repair Parts		245,716	325,084		325,084	
	Total Other Procurement, Navy		5,689,605	5,846,558	123,710	5,970,268	

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Department of the Navy
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

09 Jan 2015

Appropriation: 1810N Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-----	-----	-
156	Environmental Support Equipment	A		26,795			26,795		U
157	Physical Security Equipment	A		88,453			88,453		U
159	Enterprise Information Technology	A		99,094			99,094		U
	Other								
160	Next Generation Enterprise Service	A		99,014			99,014		U
999	Classified Programs			21,439		12,000	33,439		U
				-----		-----	-----		
	Total Personnel & Command Support Equip			406,858			418,858		
	Budget Activity 08: Spares and Repair Parts								

	Spares and Repair Parts								
161	Spares and Repair Parts	A		328,043			328,043		U
				-----		-----	-----		
	Total Spares and Repair Parts			328,043			328,043		
				-----		-----	-----		
	Total Other Procurement, Navy			6,614,715		12,186	6,626,901		

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Navy • President's Budget Submission FY 2016 • Procurement

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

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	01	01	0110	LM-2500 Gas Turbine.....	Volume 1 - 1
2	01	01	0120	Allison 501K Gas Turbine.....	Volume 1 - 15
3	01	01	0140	Hybrid Electric Drive (HED).....	Volume 1 - 27
4	01	02	0200	Surface Combatant HM&E.....	Volume 1 - 33
5	01	06	0670	Other Navigation Equipment.....	Volume 1 - 67
6	01	08	0831	Sub Periscopes & Imaging Equip.....	Volume 1 - 113
7	01	09	0900	DDG Mod.....	Volume 1 - 143
8	01	09	0910	Firefighting Equipment.....	Volume 1 - 199
9	01	09	0925	Command and Control Switchboard.....	Volume 1 - 219
10	01	09	0933	LHA/LHD Midlife.....	Volume 1 - 227
11	01	09	0934	LCC 19/20 Extended Service Life Program.....	Volume 1 - 245
12	01	09	0935	Pollution Control Equipment.....	Volume 1 - 265
13	01	09	0941	Submarine Support Equipment.....	Volume 1 - 277
14	01	09	0942	Virginia Class Support Equipment.....	Volume 1 - 295
15	01	09	0944	LCS Class Support Equipment.....	Volume 1 - 329
16	01	09	0945	Submarine Batteries.....	Volume 1 - 345

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
17	01	09	0946	LPD Class Support Equipment.....	Volume 1 - 363
18	01	09	0950	Strategic Platform Support Equip.....	Volume 1 - 385
19	01	09	0955	Deep Subm Sys Proj (DSSP) Equip.....	Volume 1 - 403
20	01	09	0960	CG Modernization.....	Volume 1 - 409
21	01	09	0970	LCAC.....	Volume 1 - 443
22	01	09	0977	Underwater EOD Programs.....	Volume 1 - 447
23	01	09	0981	Items less than \$5 Million.....	Volume 1 - 461
24	01	09	0989	Chemical Warfare Detectors.....	Volume 1 - 515
25	01	09	0990	Submarine Life Support System.....	Volume 1 - 533
26	01	10	1010	Reactor Power Units.....	Volume 1 - 543
27	01	10	1020	Reactor Components.....	Volume 1 - 547
28	01	11	1130	Diving and Salvage Equipment.....	Volume 1 - 551
29	01	12	1210	Standard Boats.....	Volume 1 - 571
30	01	13	1320	Other Ships Training Equipment.....	Volume 1 - 587
31	01	14	1445	Operating Forces IPE.....	Volume 1 - 591
32	01	15	1480	Nuclear Alterations.....	Volume 1 - 601
33	01	15	1600	LCS Common Mission Modules Equipment.....	Volume 1 - 605
34	01	15	1601	LCS MCM Mission Modules.....	Volume 1 - 621

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
35	01	15	1603	LCS SUW Mission Modules.....	Volume 1 - 633
36	01	15	1605	Remote Minehunting System (RMS).....	Volume 1 - 643
37	01	16	1610	LSD Midlife.....	Volume 1 - 653

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
38	02	02	2026	SPQ-9B Radar.....	Volume 2 - 1
39	02	02	2136	AN/SQQ-89 Surf ASW Cmbt Sys.....	Volume 2 - 13
40	02	02	2147	SSN Acoustics.....	Volume 2 - 39
41	02	02	2176	Undersea Warfare Support Equipment.....	Volume 2 - 79
42	02	02	2181	Sonar Switches and Transducers.....	Volume 2 - 91
43	02	02	2188	Electronic Warfare MILDEC.....	Volume 2 - 101
44	02	03	2210	Submarine Acoustic Warfare System.....	Volume 2 - 109
45	02	03	2213	Surface Ship Torpedo Def (SSTD).....	Volume 2 - 137
46	02	03	2225	Fixed Surveillance System.....	Volume 2 - 159
47	02	03	2237	SURTASS.....	Volume 2 - 163

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
48	02	03	2246	Maritime Patrol and Reconnaissance Force.....	Volume 2 - 189
49	02	04	2312	AN/SLQ-32.....	Volume 2 - 205
50	02	05	2360	Shipboard IW Exploit.....	Volume 2 - 237
51	02	05	2361	Automatic Identification System (AIS).....	Volume 2 - 273
52	02	06	2560	Submarine Supt Equip Prog.....	Volume 2 - 277
53	02	07	2606	Cooperative Engagement Capability.....	Volume 2 - 317
54	02	07	2608	Trusted Information System (TIS).....	Volume 2 - 345
55	02	07	2611	Naval Tact Cmd Supt Sys (NTCSS).....	Volume 2 - 349
56	02	07	2614	Adv Tact Data Link Sys (ATDLS).....	Volume 2 - 359
57	02	07	2618	Navy Command and Control System (NCCS).....	Volume 2 - 373
58	02	07	2622	Minesweeping System Replacement.....	Volume 2 - 383
59	02	07	2624	Shallow Water Mine CM Ship.....	Volume 2 - 397
60	02	07	2657	NAVSTAR GPS Receivers (Space).....	Volume 2 - 407
61	02	07	2666	American Forces Radio and TV Service (AFRTS).....	Volume 2 - 419
62	02	07	2676	Strategic Platform Support Equip.....	Volume 2 - 425
63	02	08	2762	Other Training Equipment.....	Volume 2 - 429
64	02	09	2815	MATCALs.....	Volume 2 - 449
65	02	09	2831	Shipboard Air Traffic Control.....	Volume 2 - 461

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
66	02	09	2832	Automatic Carrier Landing System.....	Volume 2 - 469
67	02	09	2840	National Air Space System.....	Volume 2 - 503
68	02	09	2845	Fleet Air Traffic Control Systems.....	Volume 2 - 529
69	02	09	2846	Landing Systems.....	Volume 2 - 535
70	02	09	2851	ID Systems.....	Volume 2 - 549
71	02	09	2876	Naval Mission Planning Systems.....	Volume 2 - 573
72	02	10	2804	Depl JT Cmd & Control (DJC2).....	Volume 2 - 579
73	02	10	2900	Maritime Integrated Broadcast System.....	Volume 2 - 585
74	02	10	2906	Tactical/Mobile C4I Systems.....	Volume 2 - 599
75	02	10	2914	Distributed Common Ground System-Navy (DCGS-N).....	Volume 2 - 611
76	02	10	2915	CANES.....	Volume 2 - 637
77	02	10	2920	RADIAC.....	Volume 2 - 665
78	02	10	2925	CANES Intell.....	Volume 2 - 677
79	02	10	2940	Gen Purp Elec Test Equip (GPETE).....	Volume 2 - 691
80	02	10	2950	Network Tactical Common Data Link (CDL).....	Volume 2 - 697
81	02	10	2960	Integ Combat System Test Facility.....	Volume 2 - 701
82	02	10	2970	EMI Control Instrumentation.....	Volume 2 - 705
83	02	10	2980	Items less than \$5 Million.....	Volume 2 - 711

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
84	02	11	3010	Shipboard Tactical Comms.....	Volume 2 - 741
85	02	11	3050	Ship Communications Automation.....	Volume 2 - 749
86	02	11	3057	Communications Items under \$5M.....	Volume 2 - 773
87	02	12	3107	Submarine Broadcast Support.....	Volume 2 - 781
88	02	12	3130	Submarine Communication Equipment.....	Volume 2 - 797
89	02	13	3215	Satellite Communications Systems.....	Volume 2 - 835
90	02	13	3216	Navy Multiband Terminal (NMT).....	Volume 2 - 857
91	02	14	3302	JCS Communications Equipment.....	Volume 2 - 871
92	02	14	3303	Electrical Power Systems.....	Volume 2 - 875
93	02	15	3415	Info Systems Security Program (ISSP).....	Volume 2 - 883
94	02	15	3417	MIO Intel Exploitation Team.....	Volume 2 - 919
95	02	16	3501	Cryptologic Communications Equip.....	Volume 2 - 923
96	02	17	3620	Coast Guard Equipment.....	Volume 2 - 933

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
97	03	01	4048	Sonobuoys - All Types.....	Volume 3 - 1
98	03	03	4204	Weapons Range Support Equipment.....	Volume 3 - 11
99	03	03	4208	Expeditionary Airfields.....	Volume 3 - 21
100	03	03	4213	Aircraft Support Equipment.....	Volume 3 - 27
101	03	03	4214	Acft Rearming Equip.....	Volume 3 - 69
102	03	03	4216	Acft Launch & Recovery Equip.....	Volume 3 - 77
103	03	03	4226	Meteorological Equipment.....	Volume 3 - 93
104	03	03	4242	DCRS/DPL.....	Volume 3 - 101
105	03	03	4244	Aviation Life Support.....	Volume 3 - 105
106	03	03	4248	Aviation Mine Countermeasures.....	Volume 3 - 117
107	03	03	4255	LAMPS MK III Shipboard Equipment.....	Volume 3 - 151
108	03	03	4264	Portable Electronic Maintenance Aids.....	Volume 3 - 157
109	03	03	4265	Other Aviation Support Equipment.....	Volume 3 - 163
110	03	03	4267	Autonomic Logistics Infor System (ALIS Ship Alts).....	Volume 3 - 169
111	03	03	4268	Aviation Support Equipment.....	Volume 3 - 175

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
112	04	02	5111	Ship Gun Systems Equipment.....	Volume 4 - 1
113	04	02	5112	Naval Fires Control Sys.....	Volume 4 - 7
114	04	02	5209	Gun Fire Control Equipment.....	Volume 4 - 11
115	04	03	5231	Ship Missile Support Equipment.....	Volume 4 - 15
116	04	03	5237	NATO Seasparrow.....	Volume 4 - 57
117	04	03	5238	RAM GMLS.....	Volume 4 - 69
118	04	03	5239	Ship Self Defense System.....	Volume 4 - 81
119	04	03	5246	AEGIS Support Equipment.....	Volume 4 - 99
120	04	03	5253	Tomahawk Support Equipment.....	Volume 4 - 103
121	04	03	5260	Vertical Launch Systems.....	Volume 4 - 109
122	04	03	5265	Maritime Integrated Planning System - MIPS.....	Volume 4 - 123
123	04	04	5358	Strategic Missile Systems Equip.....	Volume 4 - 135
124	04	05	5420	SSN Combat Control Systems.....	Volume 4 - 155
125	04	05	5429	ASW Support Equipment.....	Volume 4 - 187
126	04	05	5431	Submarine ASW Support Equipment.....	Volume 4 - 199
127	04	05	5449	Surface ASW Support Equipment.....	Volume 4 - 207

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
128	04	05	5455	ASW Range Support Equipment.....	Volume 4 - 213
129	04	06	5509	Explosive Ordnance Disposal Equip.....	Volume 4 - 219
130	04	06	5543	Items Less Than \$5 Million.....	Volume 4 - 235
131	04	07	5530	Anti-ship Missile Decoy System.....	Volume 4 - 241
132	04	07	5660	Surface Training Device Mods.....	Volume 4 - 261
133	04	07	5661	Submarine Training Device Mods.....	Volume 4 - 267
134	04	07	5662	Training Device Mods.....	Volume 4 - 289

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
135	05	01	6003	Passenger Carrying Vehicles.....	Volume 5 - 1
136	05	01	6007	General Purpose Trucks.....	Volume 5 - 11
137	05	01	6024	Construction & Maint Equip.....	Volume 5 - 19
138	05	01	6027	Fire Fighting Equipment.....	Volume 5 - 27
139	05	01	6028	Tactical Vehicles.....	Volume 5 - 33
140	05	01	6033	Amphibious Equipment.....	Volume 5 - 37

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
141	05	01	6058	Pollution Control Equipment.....	Volume 5 - 45
142	05	01	6060	Items under \$5 million.....	Volume 5 - 49
143	05	01	6075	Physical Security Vehicles.....	Volume 5 - 59

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
144	06	01	7015	Materials Handling Equipment.....	Volume 5 - 63
145	06	01	7050	Other Supply Support Equipment.....	Volume 5 - 71
146	06	01	7066	First Destination Transportation.....	Volume 5 - 75
147	06	01	7069	Special Purpose Supply Systems.....	Volume 5 - 79

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
148	07	01	8081	Training Support Equipment.....	Volume 5 - 83

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
149	07	02	8106	Command Support Equipment.....	Volume 5 - 99
150	07	02	8108	Education Support Equipment.....	Volume 5 - 119
151	07	02	8109	Medical Support Equipment.....	Volume 5 - 129
153	07	02	8114	Naval MIP Support Equipment.....	Volume 5 - 137
154	07	02	8118	Operating Forces Supt Equip.....	Volume 5 - 141
155	07	02	8120	C4ISR Equipment.....	Volume 5 - 149
156	07	02	8126	Environmental Support Equipment.....	Volume 5 - 155
157	07	02	8128	Physical Security Equipment.....	Volume 5 - 167
159	07	02	8161	Enterprise Information Technology.....	Volume 5 - 177
160	07	05	8164	Next Generation Enterprise Service.....	Volume 5 - 195

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
161	08	01	9020	Spares and Repair Parts.....	Volume 5 - 199

UNCLASSIFIED

UNCLASSIFIED

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UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Master Line Item Table of Contents (Alphabetically by Line Item Title)

Line Item Title	Line Item Number	Line #	BA	BSA	Page
AEGIS Support Equipment	5246	119	04	03.....	Volume 4 - 99
AN/SLQ-32	2312	49	02	04.....	Volume 2 - 205
AN/SQQ-89 Surf ASW Cmbt Sys	2136	39	02	02.....	Volume 2 - 13
ASW Range Support Equipment	5455	128	04	05.....	Volume 4 - 213
ASW Support Equipment	5429	125	04	05.....	Volume 4 - 187
Acft Launch & Recovery Equip	4216	102	03	03.....	Volume 3 - 77
Acft Rearming Equip	4214	101	03	03.....	Volume 3 - 69
Adv Tact Data Link Sys (ATDLS)	2614	56	02	07.....	Volume 2 - 359
Aircraft Support Equipment	4213	100	03	03.....	Volume 3 - 27
Allison 501K Gas Turbine	0120	2	01	01.....	Volume 1 - 15
American Forces Radio and TV Service (AFRTS)	2666	61	02	07.....	Volume 2 - 419
Amphibious Equipment	6033	140	05	01.....	Volume 5 - 37
Anti-ship Missile Decoy System	5530	131	04	07.....	Volume 4 - 241
Automatic Carrier Landing System	2832	66	02	09.....	Volume 2 - 469
Automatic Identification System (AIS)	2361	51	02	05.....	Volume 2 - 273
Autonomic Logistics Infor System (ALIS Ship Alts)	4267	110	03	03.....	Volume 3 - 169
Aviation Life Support	4244	105	03	03.....	Volume 3 - 105

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Aviation Mine Countermeasures	4248	106	03	03.....	Volume 3 - 117
Aviation Support Equipment	4268	111	03	03.....	Volume 3 - 175
C4ISR Equipment	8120	155	07	02.....	Volume 5 - 149
CANES	2915	76	02	10.....	Volume 2 - 637
CANES Intell	2925	78	02	10.....	Volume 2 - 677
CG Modernization	0960	20	01	09.....	Volume 1 - 409
Chemical Warfare Detectors	0989	24	01	09.....	Volume 1 - 515
Coast Guard Equipment	3620	96	02	17.....	Volume 2 - 933
Command Support Equipment	8106	149	07	02.....	Volume 5 - 99
Command and Control Switchboard	0925	9	01	09.....	Volume 1 - 219
Communications Items under \$5M	3057	86	02	11.....	Volume 2 - 773
Construction & Maint Equip	6024	137	05	01.....	Volume 5 - 19
Cooperative Engagement Capability	2606	53	02	07.....	Volume 2 - 317
Cryptologic Communications Equip	3501	95	02	16.....	Volume 2 - 923
DCRS/DPL	4242	104	03	03.....	Volume 3 - 101
DDG Mod	0900	7	01	09.....	Volume 1 - 143
Deep Subm Sys Proj (DSSP) Equip	0955	19	01	09.....	Volume 1 - 403
Depl JT Cmd & Control (DJC2)	2804	72	02	10.....	Volume 2 - 579
Distributed Common Ground System-Navy (DCGS-N)	2914	75	02	10.....	Volume 2 - 611
Diving and Salvage Equipment	1130	28	01	11.....	Volume 1 - 551

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
EMI Control Instrumentation	2970	82	02	10.....	Volume 2 - 705
Education Support Equipment	8108	150	07	02.....	Volume 5 - 119
Electrical Power Systems	3303	92	02	14.....	Volume 2 - 875
Electronic Warfare MILDEC	2188	43	02	02.....	Volume 2 - 101
Enterprise Information Technology	8161	159	07	02.....	Volume 5 - 177
Environmental Support Equipment	8126	156	07	02.....	Volume 5 - 155
Expeditionary Airfields	4208	99	03	03.....	Volume 3 - 21
Explosive Ordnance Disposal Equip	5509	129	04	06.....	Volume 4 - 219
Fire Fighting Equipment	6027	138	05	01.....	Volume 5 - 27
Firefighting Equipment	0910	8	01	09.....	Volume 1 - 199
First Destination Transportation	7066	146	06	01.....	Volume 5 - 75
Fixed Surveillance System	2225	46	02	03.....	Volume 2 - 159
Fleet Air Traffic Control Systems	2845	68	02	09.....	Volume 2 - 529
Gen Purp Elec Test Equip (GPETE)	2940	79	02	10.....	Volume 2 - 691
General Purpose Trucks	6007	136	05	01.....	Volume 5 - 11
Gun Fire Control Equipment	5209	114	04	02.....	Volume 4 - 11
Hybrid Electric Drive (HED)	0140	3	01	01.....	Volume 1 - 27
ID Systems	2851	70	02	09.....	Volume 2 - 549
Info Systems Security Program (ISSP)	3415	93	02	15.....	Volume 2 - 883
Integ Combat System Test Facility	2960	81	02	10.....	Volume 2 - 701

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Items Less Than \$5 Million	5543	130	04	06.....	Volume 4 - 235
Items less than \$5 Million	0981	23	01	09.....	Volume 1 - 461
Items less than \$5 Million	2980	83	02	10.....	Volume 2 - 711
Items under \$5 million	6060	142	05	01.....	Volume 5 - 49
JCS Communications Equipment	3302	91	02	14.....	Volume 2 - 871
LAMPS MK III Shipboard Equipment	4255	107	03	03.....	Volume 3 - 151
LCAC	0970	21	01	09.....	Volume 1 - 443
LCC 19/20 Extended Service Life Program	0934	11	01	09.....	Volume 1 - 245
LCS Class Support Equipment	0944	15	01	09.....	Volume 1 - 329
LCS Common Mission Modules Equipment	1600	33	01	15.....	Volume 1 - 605
LCS MCM Mission Modules	1601	34	01	15.....	Volume 1 - 621
LCS SUW Mission Modules	1603	35	01	15.....	Volume 1 - 633
LHA/LHD Midlife	0933	10	01	09.....	Volume 1 - 227
LM-2500 Gas Turbine	0110	1	01	01.....	Volume 1 - 1
LPD Class Support Equipment	0946	17	01	09.....	Volume 1 - 363
LSD Midlife	1610	37	01	16.....	Volume 1 - 653
Landing Systems	2846	69	02	09.....	Volume 2 - 535
MATCALS	2815	64	02	09.....	Volume 2 - 449
MIO Intel Exploitation Team	3417	94	02	15.....	Volume 2 - 919
Maritime Integrated Broadcast System	2900	73	02	10.....	Volume 2 - 585

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Maritime Integrated Planning System - MIPS	5265	122	04	03.....	Volume 4 - 123
Maritime Patrol and Reconnaissance Force	2246	48	02	03.....	Volume 2 - 189
Materials Handling Equipment	7015	144	06	01.....	Volume 5 - 63
Medical Support Equipment	8109	151	07	02.....	Volume 5 - 129
Meteorological Equipment	4226	103	03	03.....	Volume 3 - 93
Minesweeping System Replacement	2622	58	02	07.....	Volume 2 - 383
NATO Seasparrow	5237	116	04	03.....	Volume 4 - 57
NAVSTAR GPS Receivers (Space)	2657	60	02	07.....	Volume 2 - 407
National Air Space System	2840	67	02	09.....	Volume 2 - 503
Naval Fires Control Sys	5112	113	04	02.....	Volume 4 - 7
Naval MIP Support Equipment	8114	153	07	02.....	Volume 5 - 137
Naval Mission Planning Systems	2876	71	02	09.....	Volume 2 - 573
Naval Tact Cmd Supt Sys (NTCSS)	2611	55	02	07.....	Volume 2 - 349
Navy Command and Control System (NCCS)	2618	57	02	07.....	Volume 2 - 373
Navy Multiband Terminal (NMT)	3216	90	02	13.....	Volume 2 - 857
Network Tactical Common Data Link (CDL)	2950	80	02	10.....	Volume 2 - 697
Next Generation Enterprise Service	8164	160	07	05.....	Volume 5 - 195
Nuclear Alterations	1480	32	01	15.....	Volume 1 - 601
Operating Forces IPE	1445	31	01	14.....	Volume 1 - 591
Operating Forces Supt Equip	8118	154	07	02.....	Volume 5 - 141

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Other Aviation Support Equipment	4265	109	03	03.....	Volume 3 - 163
Other Navigation Equipment	0670	5	01	06.....	Volume 1 - 67
Other Ships Training Equipment	1320	30	01	13.....	Volume 1 - 587
Other Supply Support Equipment	7050	145	06	01.....	Volume 5 - 71
Other Training Equipment	2762	63	02	08.....	Volume 2 - 429
Passenger Carrying Vehicles	6003	135	05	01.....	Volume 5 - 1
Physical Security Equipment	8128	157	07	02.....	Volume 5 - 167
Physical Security Vehicles	6075	143	05	01.....	Volume 5 - 59
Pollution Control Equipment	0935	12	01	09.....	Volume 1 - 265
Pollution Control Equipment	6058	141	05	01.....	Volume 5 - 45
Portable Electronic Maintenance Aids	4264	108	03	03.....	Volume 3 - 157
RADIAC	2920	77	02	10.....	Volume 2 - 665
RAM GMLS	5238	117	04	03.....	Volume 4 - 69
Reactor Components	1020	27	01	10.....	Volume 1 - 547
Reactor Power Units	1010	26	01	10.....	Volume 1 - 543
Remote Minehunting System (RMS)	1605	36	01	15.....	Volume 1 - 643
SPQ-9B Radar	2026	38	02	02.....	Volume 2 - 1
SSN Acoustics	2147	40	02	02.....	Volume 2 - 39
SSN Combat Control Systems	5420	124	04	05.....	Volume 4 - 155
SURTASS	2237	47	02	03.....	Volume 2 - 163

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Satellite Communications Systems	3215	89	02	13.....	Volume 2 - 835
Shallow Water Mine CM Ship	2624	59	02	07.....	Volume 2 - 397
Ship Communications Automation	3050	85	02	11.....	Volume 2 - 749
Ship Gun Systems Equipment	5111	112	04	02.....	Volume 4 - 1
Ship Missile Support Equipment	5231	115	04	03.....	Volume 4 - 15
Ship Self Defense System	5239	118	04	03.....	Volume 4 - 81
Shipboard Air Traffic Control	2831	65	02	09.....	Volume 2 - 461
Shipboard IW Exploit	2360	50	02	05.....	Volume 2 - 237
Shipboard Tactical Comms	3010	84	02	11.....	Volume 2 - 741
Sonar Switches and Transducers	2181	42	02	02.....	Volume 2 - 91
Sonobuoys - All Types	4048	97	03	01.....	Volume 3 - 1
Spares and Repair Parts	9020	161	08	01.....	Volume 5 - 199
Special Purpose Supply Systems	7069	147	06	01.....	Volume 5 - 79
Standard Boats	1210	29	01	12.....	Volume 1 - 571
Strategic Missile Systems Equip	5358	123	04	04.....	Volume 4 - 135
Strategic Platform Support Equip	0950	18	01	09.....	Volume 1 - 385
Strategic Platform Support Equip	2676	62	02	07.....	Volume 2 - 425
Sub Periscopes & Imaging Equip	0831	6	01	08.....	Volume 1 - 113
Submarine ASW Support Equipment	5431	126	04	05.....	Volume 4 - 199
Submarine Acoustic Warfare System	2210	44	02	03.....	Volume 2 - 109

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Submarine Batteries	0945	16	01	09.....	Volume 1 - 345
Submarine Broadcast Support	3107	87	02	12.....	Volume 2 - 781
Submarine Communication Equipment	3130	88	02	12.....	Volume 2 - 797
Submarine Life Support System	0990	25	01	09.....	Volume 1 - 533
Submarine Support Equipment	0941	13	01	09.....	Volume 1 - 277
Submarine Supt Equip Prog	2560	52	02	06.....	Volume 2 - 277
Submarine Training Device Mods	5661	133	04	07.....	Volume 4 - 267
Surface ASW Support Equipment	5449	127	04	05.....	Volume 4 - 207
Surface Combatant HM&E	0200	4	01	02.....	Volume 1 - 33
Surface Ship Torpedo Def (SSTD)	2213	45	02	03.....	Volume 2 - 137
Surface Training Device Mods	5660	132	04	07.....	Volume 4 - 261
Tactical Vehicles	6028	139	05	01.....	Volume 5 - 33
Tactical/Mobile C4I Systems	2906	74	02	10.....	Volume 2 - 599
Tomahawk Support Equipment	5253	120	04	03.....	Volume 4 - 103
Training Device Mods	5662	134	04	07.....	Volume 4 - 289
Training Support Equipment	8081	148	07	01.....	Volume 5 - 83
Trusted Information System (TIS)	2608	54	02	07.....	Volume 2 - 345
Undersea Warfare Support Equipment	2176	41	02	02.....	Volume 2 - 79
Underwater EOD Programs	0977	22	01	09.....	Volume 1 - 447
Vertical Launch Systems	5260	121	04	03.....	Volume 4 - 109

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Virginia Class Support Equipment	0942	14	01	09.....	Volume 1 - 295
Weapons Range Support Equipment	4204	98	03	03.....	Volume 3 - 11

UNCLASSIFIED

UNCLASSIFIED

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UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

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

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
38	02	02	2026	SPQ-9B Radar.....	Volume 2 - 1
39	02	02	2136	AN/SQQ-89 Surf ASW Cmbt Sys.....	Volume 2 - 13
40	02	02	2147	SSN Acoustics.....	Volume 2 - 39
41	02	02	2176	Undersea Warfare Support Equipment.....	Volume 2 - 79
42	02	02	2181	Sonar Switches and Transducers.....	Volume 2 - 91
43	02	02	2188	Electronic Warfare MILDEC.....	Volume 2 - 101
44	02	03	2210	Submarine Acoustic Warfare System.....	Volume 2 - 109
45	02	03	2213	Surface Ship Torpedo Def (SSTD).....	Volume 2 - 137
46	02	03	2225	Fixed Surveillance System.....	Volume 2 - 159
47	02	03	2237	SURTASS.....	Volume 2 - 163
48	02	03	2246	Maritime Patrol and Reconnaissance Force.....	Volume 2 - 189
49	02	04	2312	AN/SLQ-32.....	Volume 2 - 205
50	02	05	2360	Shipboard IW Exploit.....	Volume 2 - 237
51	02	05	2361	Automatic Identification System (AIS).....	Volume 2 - 273
52	02	06	2560	Submarine Supt Equip Prog.....	Volume 2 - 277
53	02	07	2606	Cooperative Engagement Capability.....	Volume 2 - 317

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
54	02	07	2608	Trusted Information System (TIS).....	Volume 2 - 345
55	02	07	2611	Naval Tact Cmd Supt Sys (NTCSS).....	Volume 2 - 349
56	02	07	2614	Adv Tact Data Link Sys (ATDLS).....	Volume 2 - 359
57	02	07	2618	Navy Command and Control System (NCCS).....	Volume 2 - 373
58	02	07	2622	Minesweeping System Replacement.....	Volume 2 - 383
59	02	07	2624	Shallow Water Mine CM Ship.....	Volume 2 - 397
60	02	07	2657	NAVSTAR GPS Receivers (Space).....	Volume 2 - 407
61	02	07	2666	American Forces Radio and TV Service (AFRTS).....	Volume 2 - 419
62	02	07	2676	Strategic Platform Support Equip.....	Volume 2 - 425
63	02	08	2762	Other Training Equipment.....	Volume 2 - 429
64	02	09	2815	MATCALs.....	Volume 2 - 449
65	02	09	2831	Shipboard Air Traffic Control.....	Volume 2 - 461
66	02	09	2832	Automatic Carrier Landing System.....	Volume 2 - 469
67	02	09	2840	National Air Space System.....	Volume 2 - 503
68	02	09	2845	Fleet Air Traffic Control Systems.....	Volume 2 - 529
69	02	09	2846	Landing Systems.....	Volume 2 - 535
70	02	09	2851	ID Systems.....	Volume 2 - 549
71	02	09	2876	Naval Mission Planning Systems.....	Volume 2 - 573

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
72	02	10	2804	Depl JT Cmd & Control (DJC2).....	Volume 2 - 579
73	02	10	2900	Maritime Integrated Broadcast System.....	Volume 2 - 585
74	02	10	2906	Tactical/Mobile C4I Systems.....	Volume 2 - 599
75	02	10	2914	Distributed Common Ground System-Navy (DCGS-N).....	Volume 2 - 611
76	02	10	2915	CANES.....	Volume 2 - 637
77	02	10	2920	RADIAC.....	Volume 2 - 665
78	02	10	2925	CANES Intell.....	Volume 2 - 677
79	02	10	2940	Gen Purp Elec Test Equip (GPETE).....	Volume 2 - 691
80	02	10	2950	Network Tactical Common Data Link (CDL).....	Volume 2 - 697
81	02	10	2960	Integ Combat System Test Facility.....	Volume 2 - 701
82	02	10	2970	EMI Control Instrumentation.....	Volume 2 - 705
83	02	10	2980	Items less than \$5 Million.....	Volume 2 - 711
84	02	11	3010	Shipboard Tactical Comms.....	Volume 2 - 741
85	02	11	3050	Ship Communications Automation.....	Volume 2 - 749
86	02	11	3057	Communications Items under \$5M.....	Volume 2 - 773
87	02	12	3107	Submarine Broadcast Support.....	Volume 2 - 781
88	02	12	3130	Submarine Communication Equipment.....	Volume 2 - 797
89	02	13	3215	Satellite Communications Systems.....	Volume 2 - 835

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Appropriation 1810N: Other Procurement, Navy

Line #	BA	BSA	Line Item Number	Line Item Title	Page
90	02	13	3216	Navy Multiband Terminal (NMT).....	Volume 2 - 857
91	02	14	3302	JCS Communications Equipment.....	Volume 2 - 871
92	02	14	3303	Electrical Power Systems.....	Volume 2 - 875
93	02	15	3415	Info Systems Security Program (ISSP).....	Volume 2 - 883
94	02	15	3417	MIO Intel Exploitation Team.....	Volume 2 - 919
95	02	16	3501	Cryptologic Communications Equip.....	Volume 2 - 923
96	02	17	3620	Coast Guard Equipment.....	Volume 2 - 933

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Navy • President's Budget Submission FY 2016 • Procurement

Line Item Table of Contents (Alphabetically by Line Item Title)

Line Item Title	Line Item Number	Line #	BA	BSA	Page
AN/SLQ-32	2312	49	02	04.....	Volume 2 - 205
AN/SQQ-89 Surf ASW Cmbt Sys	2136	39	02	02.....	Volume 2 - 13
Adv Tact Data Link Sys (ATDLS)	2614	56	02	07.....	Volume 2 - 359
American Forces Radio and TV Service (AFRTS)	2666	61	02	07.....	Volume 2 - 419
Automatic Carrier Landing System	2832	66	02	09.....	Volume 2 - 469
Automatic Identification System (AIS)	2361	51	02	05.....	Volume 2 - 273
CANES	2915	76	02	10.....	Volume 2 - 637
CANES Intell	2925	78	02	10.....	Volume 2 - 677
Coast Guard Equipment	3620	96	02	17.....	Volume 2 - 933
Communications Items under \$5M	3057	86	02	11.....	Volume 2 - 773
Cooperative Engagement Capability	2606	53	02	07.....	Volume 2 - 317
Cryptologic Communications Equip	3501	95	02	16.....	Volume 2 - 923
Depl JT Cmd & Control (DJC2)	2804	72	02	10.....	Volume 2 - 579
Distributed Common Ground System-Navy (DCGS-N)	2914	75	02	10.....	Volume 2 - 611
EMI Control Instrumentation	2970	82	02	10.....	Volume 2 - 705
Electrical Power Systems	3303	92	02	14.....	Volume 2 - 875
Electronic Warfare MILDEC	2188	43	02	02.....	Volume 2 - 101

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Fixed Surveillance System	2225	46	02	03.....	Volume 2 - 159
Fleet Air Traffic Control Systems	2845	68	02	09.....	Volume 2 - 529
Gen Purp Elec Test Equip (GPETE)	2940	79	02	10.....	Volume 2 - 691
ID Systems	2851	70	02	09.....	Volume 2 - 549
Info Systems Security Program (ISSP)	3415	93	02	15.....	Volume 2 - 883
Integ Combat System Test Facility	2960	81	02	10.....	Volume 2 - 701
Items less than \$5 Million	2980	83	02	10.....	Volume 2 - 711
JCS Communications Equipment	3302	91	02	14.....	Volume 2 - 871
Landing Systems	2846	69	02	09.....	Volume 2 - 535
MATCALs	2815	64	02	09.....	Volume 2 - 449
MIO Intel Exploitation Team	3417	94	02	15.....	Volume 2 - 919
Maritime Integrated Broadcast System	2900	73	02	10.....	Volume 2 - 585
Maritime Patrol and Reconnaissance Force	2246	48	02	03.....	Volume 2 - 189
Minesweeping System Replacement	2622	58	02	07.....	Volume 2 - 383
NAVSTAR GPS Receivers (Space)	2657	60	02	07.....	Volume 2 - 407
National Air Space System	2840	67	02	09.....	Volume 2 - 503
Naval Mission Planning Systems	2876	71	02	09.....	Volume 2 - 573
Naval Tact Cmd Supt Sys (NTCSS)	2611	55	02	07.....	Volume 2 - 349
Navy Command and Control System (NCCS)	2618	57	02	07.....	Volume 2 - 373
Navy Multiband Terminal (NMT)	3216	90	02	13.....	Volume 2 - 857

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Network Tactical Common Data Link (CDL)	2950	80	02	10.....	Volume 2 - 697
Other Training Equipment	2762	63	02	08.....	Volume 2 - 429
RADIAC	2920	77	02	10.....	Volume 2 - 665
SPQ-9B Radar	2026	38	02	02.....	Volume 2 - 1
SSN Acoustics	2147	40	02	02.....	Volume 2 - 39
SURTASS	2237	47	02	03.....	Volume 2 - 163
Satellite Communications Systems	3215	89	02	13.....	Volume 2 - 835
Shallow Water Mine CM Ship	2624	59	02	07.....	Volume 2 - 397
Ship Communications Automation	3050	85	02	11.....	Volume 2 - 749
Shipboard Air Traffic Control	2831	65	02	09.....	Volume 2 - 461
Shipboard IW Exploit	2360	50	02	05.....	Volume 2 - 237
Shipboard Tactical Comms	3010	84	02	11.....	Volume 2 - 741
Sonar Switches and Transducers	2181	42	02	02.....	Volume 2 - 91
Strategic Platform Support Equip	2676	62	02	07.....	Volume 2 - 425
Submarine Acoustic Warfare System	2210	44	02	03.....	Volume 2 - 109
Submarine Broadcast Support	3107	87	02	12.....	Volume 2 - 781
Submarine Communication Equipment	3130	88	02	12.....	Volume 2 - 797
Submarine Supt Equip Prog	2560	52	02	06.....	Volume 2 - 277
Surface Ship Torpedo Def (SSTD)	2213	45	02	03.....	Volume 2 - 137
Tactical/Mobile C4I Systems	2906	74	02	10.....	Volume 2 - 599

UNCLASSIFIED

UNCLASSIFIED

Navy • President's Budget Submission FY 2016 • Procurement

Line Item Title	Line Item Number	Line #	BA	BSA	Page
Trusted Information System (TIS)	2608	54	02	07.....	Volume 2 - 345
Undersea Warfare Support Equipment	2176	41	02	02.....	Volume 2 - 79

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars						P-1 Line Item Number / Title: 2026 / SPQ-9B Radar						
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	122.704	27.934	26.735	20.551	-	20.551	28.603	30.452	29.269	29.911	789.509	1,105.668
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	122.704	27.934	26.735	20.551	-	20.551	28.603	30.452	29.269	29.911	789.509	1,105.668
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	122.704	27.934	26.735	20.551	-	20.551	28.603	30.452	29.269	29.911	789.509	1,105.668
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	0.026	0.120	0.503	-	0.503	0.675	0.208	0.758	0.546	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This program provides for procurement of AN/SPQ-9B Radars whose primary mission is to detect and track low flying Anti-Ship Missile targets in heavy clutter. The mission of the AN/SPQ-9B is currently being expanded to include the capability to detect and classify periscopes with the completion and incorporation of a Periscope Detection and Discrimination (PDD) capability designed to operate concurrently with the Anti-Ship Missile Defense (ASMD) capability. [BR5IN AN/SPQ-9B FMP INSTALLATIONS]: Provides funding to install AN/SPQ-9B Radar systems. AN/SPQ-9B systems are installed using Alteration Installation Teams (AITs) that require Planning Yard Design Services Allocation (DSA) funds one (1) and two (2) years prior to installation. Advance Planning (AP) is required one (1) year prior to installation. [BR6IN AN/SPQ-9B NON FMP INSTALLATIONS]: Provides funding for the installation of equipment for Land Based Test Sites (LBTS). [P40A / BR040 TRANSMITTER UPGRADE FMP]: Funding is provided for installations of AN/SPQ-9B Transmitter Upgrades on LPD-17. [P40A / BR040 TRANSMITTER UPGRADE NON-FMP EQUIPMENT]: Funding provided for Transmitter Upgrade Processor installations at Surface Warfare Engineering Facility (SWEF) and Combat Systems Engineering Development Site (CSEDS) (both non-FMP). [P40A / BR042 AN/SPQ-9B ENGINEERING CHANGE PROPOSALS (ECP)]: Procures product improvements generated by Engineering Change Proposals (ECPs); corrects problems reported by Fleet units; upgrades unreliable components and replaces obsolete components and parts no longer in production for AN/SPQ-9B Radar; and addresses supportability concerns. Purchases and installs ECPs, including Antenna Shock Upgrade Kits, Antenna Radar Components, Digital Signal Processor (DSP) Kits, Periscope Detection and Discrimination (PDD) Kits and engineering change kit hardware components. Antenna Shock Upgrade Kits will be installed during Antenna Restorations. DSP and PDD kits will be installed via Alteration Installation Team (AIT) and can be accomplished outside of a CNO Availability. [P40A / BR830 AN/SPQ-9B PRODUCTION SUPPORT]: Supports the AN/SPQ-9B Radar program In-Service Engineering Agent (ISEA), Software Support Activity (SSA), Integrated Logistics Agent (ILA), Acquisition Engineering Agent (AEA), and Technical Design Agent (TDA). Also includes support for production of hardware and production hardware components related to Engineering Change Proposals (ECPs) and software certification. [P40A / BRCA1 AN/SPQ-9B RADAR COMPONENTS]: Funding is provided via Congressional Plus Up to procure AN/SPQ-9B Radars, Transmitter Upgrades (TUP), Antennas, sub-components, software and modifications.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars		P-1 Line Item Number / Title: 2026 / SPQ-9B Radar
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
[P40A / BRCA2 AN/SPQ-9B RADAR COMPONENTS]: Funding is provided via Congressional Plus Up to procure AN/SPQ-9B Radars, Transmitter Upgrades (TUP), Antennas, sub-components, software and modifications. [P3A / BR040 AN/SPQ-9B RADAR FMP EQUIPMENT]: Procures AN/SPQ-9B Radars to add Anti-Ship Missile Defense (ASMD) capability to Shipboard Combat Systems. Procures radars to support combat systems on the following ship classes: CG, LHA, DDG, CVN, LHD, LPD, U.S. Coast Guard National Security Cutter and a Training Unit. Systems procured for Cruisers/Destroyers (CRUDES) and Amphibious Ships in FY12 and beyond will also include the Periscope Detection and Discrimination (PDD) capability. Procures AN/SPQ-9B Technical Data Package (TDP) using FY14 funding to enable production contract competition.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars				P-1 Line Item Number / Title: 2026 / SPQ-9B Radar			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO
Title*	Exhibits	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)
SPQ-9B Radar	P-40a, P-5a		- / 87.938	- / 12.110	- / 9.988	- / 13.027	- / -
1 / BR040 AN/SPQ-9B RADAR FMP EQUIPMENT ()	P-3a		- / 34.766	- / 15.824	- / 16.747	- / 7.524	- / -
Total Gross/Weapon System Cost			- / 122.704	- / 27.934	- / 26.735	- / 20.551	- / -
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete
Title*	Exhibits	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)
SPQ-9B Radar	P-40a, P-5a		- / -	- / -	- / -	- / -	- / -
1 / BR040 AN/SPQ-9B RADAR FMP EQUIPMENT ()	P-3a		- / 24.823	- / 23.893	- / 21.415	- / 21.128	- / 728.648
Total Gross/Weapon System Cost			- / 28.603	- / 30.452	- / 29.269	- / 29.911	- / 789.509
*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 add due to rounding.							

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2								P-1 Line Item Number / Title: 2026 / SPQ-9B Radar							Aggregated Items Title: SPQ-9B Radar				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) BR040 AN/SPQ-9B RADAR																				
1.1) BR040 ANTENNA	A		2,529K	7	17.701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) BR040 ANTENNA TEST STAND	A		1,025K	1	1.025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.3) BR040 TRANSMITTER UPGRADE FMP	A		-	-	12.961	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.4) BR040 TRANSMITTER UPGRADE NON-FMP EQUIPMENT	A		-	-	2.958	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) BR040 AN/SPQ-9B RADAR			-	-	34.645	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) BR042 AN/SPQ-9B ENGINEERING CHANGE PROPOSALS (ECP)																				
2.1) BR042 MISCELLANEOUS ECPs	A		-	-	6.962	-	-	1.510	-	-	1.426	-	-	0.603	-	-	-	-	0.603	
2.2) BR042 ANTENNA SHOCK UPGRADE KITS ^(†)	A		527,428.57	7	3.692	-	-	-	-	-	-	637,000.00	2	1.274	-	-	-	637,000.00	2	1.274
2.3) BR042 DIGITAL SIGNAL PROCESSOR KITS - PROCUREMENTS ^(†)	A		380,800.00	5	1.904	314,750.00	4	1.259	320,666.67	6	1.924	327,000.00	3	0.981	-	-	-	327,000.00	3	0.981
2.4) BR042 DIGITAL SIGNAL PROCESSOR KITS - INSTALLS	A		140,000.00	2	0.280	142,666.67	3	0.428	145,250.00	4	0.581	148,166.67	6	0.889	-	-	-	148,166.67	6	0.889
2.5) BR042 PDD KITS - PROCUREMENT ^(†)	A		700,555.56	9	6.305	773,875.00	8	6.191	789,000.00	3	2.367	804,000.00	8	6.432	-	-	-	804,000.00	8	6.432
2.6) BR042 PDD KITS - INSTALLS	A		223,000.00	5	1.115	207,750.00	4	0.831	211,625.00	8	1.693	216,000.00	3	0.648	-	-	-	216,000.00	3	0.648
Subtotal: 2) BR042 AN/SPQ-9B ENGINEERING CHANGE PROPOSALS (ECP)			-	-	20.258	-	-	10.219	-	-	7.991	-	-	10.827	-	-	-	-	-	10.827
3) BR830 AN/SPQ-9B PRODUCTION SUPPORT																				
3.1) BR830 AN/SPQ-9B PRODUCTION SUPPORT	A		-	-	11.408	-	-	1.891	-	-	1.997	-	-	2.200	-	-	-	-	-	2.200

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2								P-1 Line Item Number / Title: 2026 / SPQ-9B Radar							Aggregated Items Title: SPQ-9B Radar				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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: 3) BR830 AN/SPQ-9B PRODUCTION SUPPORT			-	-	11.408	-	-	1.891	-	-	1.997	-	-	2.200	-	-	-	-	-	2.200
4) BRCA1 AN/SPQ-9B RADAR COMPONENTS																				
4.1) BRCA1 AN/SPQ-9B RADAR COMPONENTS	A		7,400K	2	14.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 4) BRCA1 AN/SPQ-9B RADAR COMPONENTS			-	-	14.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5) BRCA2 AN/SPQ-9B RADAR COMPONENTS																				
5.1) BRCA2 AN/SPQ-9B RADAR COMPONENTS	A		6,800K	1	6.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 5) BRCA2 AN/SPQ-9B RADAR COMPONENTS			-	-	6.800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6) WAXXX ACQUISITION WORKFORCE FUND																				
6.1) WAXXX ACQUISITION WORKFORCE FUND-2009	A		-	-	0.027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 6) WAXXX ACQUISITION WORKFORCE FUND			-	-	0.027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	87.938	-	-	12.110	-	-	9.988	-	-	13.027	-	-	-	-	13.027	

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost					
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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) BR040 AN/SPQ-9B RADAR																							
1.1) BR040 ANTENNA	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.2) BR040 ANTENNA TEST STAND	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.3) BR040 TRANSMITTER UPGRADE FMP	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.4) BR040 TRANSMITTER UPGRADE NON-FMP EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2						P-1 Line Item Number / Title: 2026 / SPQ-9B Radar									Aggregated Items Title: SPQ-9B Radar					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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: 1) BR040 AN/SPQ-9B RADAR			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) BR042 AN/SPQ-9B ENGINEERING CHANGE PROPOSALS (ECP)																				
2.1) BR042 MISCELLANEOUS ECPs	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) BR042 ANTENNA SHOCK UPGRADE KITS ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.3) BR042 DIGITAL SIGNAL PROCESSOR KITS - PROCUREMENTS ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4) BR042 DIGITAL SIGNAL PROCESSOR KITS - INSTALLS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.5) BR042 PDD KITS - PROCUREMENT ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.6) BR042 PDD KITS - INSTALLS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) BR042 AN/SPQ-9B ENGINEERING CHANGE PROPOSALS (ECP)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) BR830 AN/SPQ-9B PRODUCTION SUPPORT																				
3.1) BR830 AN/SPQ-9B PRODUCTION SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) BR830 AN/SPQ-9B PRODUCTION SUPPORT			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) BRCA1 AN/SPQ-9B RADAR COMPONENTS																				
4.1) BRCA1 AN/SPQ-9B RADAR COMPONENTS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) BRCA1 AN/SPQ-9B RADAR COMPONENTS			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) BRCA2 AN/SPQ-9B RADAR COMPONENTS																				
5.1) BRCA2 AN/SPQ-9B RADAR COMPONENTS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2						P-1 Line Item Number / Title: 2026 / SPQ-9B Radar									Aggregated Items Title: SPQ-9B Radar					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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: 5) BRCA2 AN/SPQ-9B RADAR COMPONENTS			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) WAXXX ACQUISITION WORKFORCE FUND																				
6.1) WAXXX ACQUISITION WORKFORCE FUND-2009	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 6) WAXXX ACQUISITION WORKFORCE FUND			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2			P-1 Line Item Number / Title: 2026 / SPQ-9B Radar					Aggregated Items: SPQ-9B Radar				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2) BR042 AN/SPQ-9B ENGINEERING CHANGE PROPOSALS (ECP)												
2.2) BR042 ANTENNA SHOCK UPGRADE KITS		2016	NORTHROP GRUMMAN / BALTIMORE, MARYLAND	SS / FP	WASHINGTON NAVY YARD	Mar 2016	Mar 2017	2	637,000.00	Y		Nov 2014
2.3) BR042 DIGITAL SIGNAL PROCESSOR KITS - PROCUREMENTS		2014	NORTHROP GRUMMAN / BALTIMORE, MARYLAND	SS / FP	WASHINGTON NAVY YARD	Aug 2015	Aug 2016	4	314,750.00	Y		Nov 2014
2.3) BR042 DIGITAL SIGNAL PROCESSOR KITS - PROCUREMENTS		2015	NORTHROP GRUMMAN / BALTIMORE, MARYLAND	SS / FP	WASHINGTON NAVY YARD	Aug 2015	Aug 2016	6	320,666.67	Y		Nov 2014
2.3) BR042 DIGITAL SIGNAL PROCESSOR KITS - PROCUREMENTS		2016	NORTHROP GRUMMAN / BALTIMORE, MARYLAND	SS / FP	WASHINGTON NAVY YARD	Mar 2016	Mar 2017	3	327,000.00	Y		Nov 2014
2.5) BR042 PDD KITS - PROCUREMENT		2014	NORTHROP GRUMMAN / BALTIMORE, MARYLAND	SS / FP	WASHINGTON NAVY YARD	Aug 2015	Nov 2016	8	773,875.00	Y		Nov 2014
2.5) BR042 PDD KITS - PROCUREMENT		2015	NORTHROP GRUMMAN / BALTIMORE, MARYLAND	SS / FP	WASHINGTON NAVY YARD	Aug 2015	Jul 2017	3	789,000.00	Y		Nov 2014
2.5) BR042 PDD KITS - PROCUREMENT		2016	NORTHROP GRUMMAN / BALTIMORE, MARYLAND	SS / FP	WASHINGTON NAVY YARD	Mar 2016	Jun 2017	8	804,000.00	Y		Nov 2014

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2026 / SPQ-9B Radar					Modification Number / Title: 1 / BR040 AN/SPQ-9B RADAR FMP EQUIPMENT			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	34.766	15.824	16.747	7.524	-	7.524	24.823	23.893	21.415	21.128	728.648	894.768
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	34.766	15.824	16.747	7.524	-	7.524	24.823	23.893	21.415	21.128	728.648	894.768
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	34.766	15.824	16.747	7.524	-	7.524	24.823	23.893	21.415	21.128	728.648	894.768
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: [BR040 AN/SPQ-9B RADAR FMP EQUIPMENT] Procures AN/SPQ-9B Radars to add Anti-Ship Missile Defense (ASMD) capability to Shipboard Combat Systems. Procures radars to support combat systems on the following ship classes: CG, LHA, DDG, CVN, LHD, LPD, U.S. Coast Guard National Security Cutter and a Training Unit. Systems procured for Cruisers/Destroyer(CRUDES) and Amphibious Ships in FY12 and beyond will also include the Periscope Detection and Discrimination (PDD) capability. Procures AN/SPQ-9B Technical Data Package (TDP) using FY14 funding to enable production contract competition.												
Notes: BR040 AN/SPQ-9B RADAR FMP EQUIPMENT:												
1) The follow-on contract, which includes FY14 and FY15 SPQ-9B radar procurements, is planned to award in February 2015. This contract includes a total of twelve (12) FY14 and FY15 SPQ-9B radars being procured across all appropriations (OPN, SCN, FMS). Once the contract is awarded, the first radar will be delivered 18 months after award. All follow-on radars will be delivered at a rate of one every other month.												
2) N96 Letter 4000 Ser N96-00-714 dated 10 APR 2014 redirected the FY13 AN/SPQ-9B procurement for installation at Pacific Missile Range Facility (PMRF) for Air Missile Defense Radar (AMDR) development testing and the utilization of FY14 funding for procurement of the AN/SPQ-9B Technical Data Package (TDP) instead of procurement of an AN/SPQ-9B radar. The resulting surplus of FY14 and FY15 installation funds will be used to forward fund Design Services Allocation (DSA)/Advance Planning (AP) and thus enabled FY16 installation funding to be reduced.												
3) In addition, prior to FY03, five (5) AN/SPQ-9B systems were funded under the Mk 86 program (BLI 5110). When BLI 2026 was established, only the install funding for four (4) out of the five (5) prior procurements under 5110 was transferred to this BLI. Non-FMP systems are not included in this installation schedule. AN/SPQ-9B systems are installed using Alteration Installation Teams (AITs) that require Planning Yard DSA funds one (1) and two (2) years prior to installation, and AP funds are required one (1) year prior to installation (with the exception of the FY15 and FY16 procurements as noted above).												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2026 / SPQ-9B Radar				Modification Number / Title: 1 / BR040 AN/SPQ-9B RADAR FMP EQUIPMENT				
Models of Systems Affected: AN/SPQ-9B RADAR FMP EQUIPMENT				Modification Type:				Related RDT&E PEs: 0604501N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: BR040 AN/SPQ-9B RADAR FMP EQUIPMENT												
B Kits												
Recurring												
1.1.1) BR040 AN/SPQ-9B RADAR FMP EQUIPMENT - NonOrganic ⁽¹⁾	3 / 21.657	1 / 6.611	2 / 13.400	1 / 6.814	- / -	1 / 6.814	3 / 20.718	2 / 15.915	2 / 14.894	2 / 15.218	61 / 505.529	77 / 620.756
1.1.2) BR040 AN/SPQ-9B NON-RECURRING (TDP) - Organic	- / -	- / 6.611	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.611
Subtotal: Recurring	- / 21.657	- / 13.222	- / 13.400	- / 6.814	- / -	- / 6.814	- / 20.718	- / 15.915	- / 14.894	- / 15.218	- / 505.529	- / 627.367
Subtotal: BR040 AN/SPQ-9B RADAR FMP EQUIPMENT	3 / 21.657	1 / 13.222	2 / 13.400	1 / 6.814	- / -	1 / 6.814	3 / 20.718	2 / 15.915	2 / 14.894	2 / 15.218	61 / 505.529	77 / 627.367
Subtotal: Procurement, All Modification Items	- / 21.657	- / 13.222	- / 13.400	- / 6.814	- / -	- / 6.814	- / 20.718	- / 15.915	- / 14.894	- / 15.218	- / 505.529	- / 627.367
Installation												
Modification Item 1 of 1: BR040 AN/SPQ-9B RADAR FMP EQUIPMENT	- / 13.109	- / 2.602	- / 3.347	- / 0.710	- / -	- / 0.710	- / 4.105	- / 7.978	- / 6.521	- / 5.910	- / 223.119	- / 267.401
Subtotal: Installation	- / 13.109	- / 2.602	- / 3.347	- / 0.710	- / -	- / 0.710	- / 4.105	- / 7.978	- / 6.521	- / 5.910	- / 223.119	- / 267.401
Total												
Total Cost (Procurement + Support + Installation)	34.766	15.824	16.747	7.524	-	7.524	24.823	23.893	21.415	21.128	728.648	894.768

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2		P-1 Line Item Number / Title: 2026 / SPQ-9B Radar			Modification Number / Title: 1 / BR040 AN/SPQ-9B RADAR FMP EQUIPMENT		

Modification Item 1 of 1: BR040 AN/SPQ-9B RADAR FMP EQUIPMENT

Manufacturer Information

Manufacturer Name: NORTHROP GRUMMAN				Manufacturer Location: BALTIMORE, MD			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 18			

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Feb 2015	Feb 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020
Delivery Dates	Aug 2016	Feb 2018	Aug 2018	Jun 2019	Feb 2020	Sep 2020	Sep 2021

Installation Information

Method of Implementation: [none specified]:: Installation Name: BR040 AN/SPQ-9B RADAR FMP EQUIPMENT

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 13.109	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 13.109
FY 2014	- / -	- / 0.651	- / 1.300	1 / 0.650	- / -	1 / 0.650	- / -	- / -	- / -	- / -	- / -	1 / 2.601
FY 2015	- / -	- / 1.951	- / 1.353	- / 0.060	- / -	- / 0.060	- / 0.740	2 / 1.365	- / -	- / -	- / -	2 / 5.469
FY 2016	- / -	- / -	- / 0.694	- / -	- / -	- / -	- / 1.400	1 / 0.700	- / -	- / -	- / -	1 / 2.794
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.965	- / 4.491	3 / 2.031	- / -	- / -	3 / 8.487
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.422	- / 3.044	2 / 1.336	- / -	2 / 5.802
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.446	- / 3.100	2 / 1.398	2 / 5.944
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.474	2 / 4.584	2 / 6.058
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	61 / 217.137	61 / 217.137
Total	7 / 13.109	- / 2.602	- / 3.347	1 / 0.710	- / -	1 / 0.710	- / 4.105	3 / 7.978	3 / 6.521	2 / 5.910	65 / 223.119	81 / 267.401

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	1	-	-	2	1	-	1	1	-	65	81
Out	6	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	1	-	-	2	1	-	1	1	65	81

Footnotes:

(1) Note 1: The follow-on contract, which includes FY14 and FY15 SPQ-9B radar procurements, is planned to award in February 2015. This contract includes a total of twelve (12) FY14 and FY15 SPQ-9B radars being procured across all appropriations (OPN, SCN, FMS). Once the contract is awarded, the first radar will be delivered 18 months after award. All follow-on radars will be delivered at a rate of one every other month. Note 2: N96 Letter 4000 Ser N96-00-714 dated 10 APR 2014 redirected the FY13 AN/SPQ-9B procurement for installation at Pacific Missile Range Facility (PMRF) for Air Missile Defense Radar (AMDR) development testing and the utilization of FY14 funding for procurement of the AN/SPQ-9B Technical Data Package (TDP) instead of procurement of an AN/SPQ-9B radar. The resulting surplus of FY14 and FY15 installation funds will be used to forward fund Design Services Allocation (DSA)/Advance Planning (AP) and thus enabled FY16 installation funding to be reduced. Note 3: In addition, prior to FY03, five (5)

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2026 / SPQ-9B Radar	Modification Number / Title: 1 / BR040 AN/SPQ-9B RADAR FMP EQUIPMENT

AN/SPQ-9B systems were funded under the Mk 86 program (BLI 5110). When BLI 2026 was established, only the install funding for four (4) out of the five (5) prior procurements under 5110 was transferred to this BLI. Non-FMP systems are not included in this installation schedule. AN/SPQ-9B systems are installed using Alteration Installation Teams (AITs) that require Planning Yard DSA funds one (1) and two (2) years prior to installation, and AP funds are required one (1) year prior to installation (with the exception of the FY15 and FY16 procurements as noted above).

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars							P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements: 0205620N				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,523.780	83.231	78.802	103.241	-	103.241	98.284	123.474	138.661	135.037	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	1,523.780	83.231	78.802	103.241	-	103.241	98.284	123.474	138.661	135.037	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,523.780	83.231	78.802	103.241	-	103.241	98.284	123.474	138.661	135.037	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	0.982	0.540	2.927	-	2.927	2.514	0.636	0.683	0.570	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Navy's Strategy is to remain the preeminent maritime power, providing the U.S. a global expeditionary force committed to security and prosperity, while defending the Nation's interests. Within this vision, Anti-Submarine Warfare (ASW) remains a Navy core competency in a dynamic and uncertain maritime environment. U.S. adversaries continue to develop asymmetric capabilities and capacities to deter, disrupt, or delay the entry of U.S. and allied naval forces, and pose a constant challenge as we implement the Maritime Strategy. Evolving submarine technologies offer enhanced stealth, speed, endurance, weapons, and operational proficiency, trends foretelling that the adversary submarine of the future will have a significantly larger sphere of influence, while presenting less vulnerability to ASW forces. The effective offensive engagement range of the adversary submarine of the future will continue to match or outrange individual U.S. and multinational platform sensors and weapons in many tactical environments. Submarines are an increasing threat to all Naval and Allied ships, particularly modern diesel subs and faster torpedoes. Not only can the presence of potential hostile submarines delay naval combatant action until they are located and neutralized, submarines can also disrupt all seaborne logistics supply for any ground campaign as well as maritime commerce. ASW forces must be effective in all operating environments, ranging from the deep open ocean to the littorals, and are key to countering adversarial anti-access and area denial strategies. The AN/SQQ-89(V) Surface Ship ASW Combat System provides integrated Undersea Warfare (USW) combat management, fire control, command and control, and on-board training to enable surface combatants to engage USW targets in both open ocean and littoral environments. The AN/SQQ-89(V) is a system comprised of many subsystems, which integrate the helo and its sensors, the ship's own organic sensors, weapons, torpedo detection, and a high fidelity Surface ASW Synthetic Trainer (SAST). The AN/SQQ-89(V) was established as an Acquisition Category (ACAT) I acquisition program in 1983 and re-designated an ACAT IC program in 1990. In 1998, the AN/SQQ-89(V) program was deemed to be 90% complete and removed from the Major Defense Acquisition Program (MDAP) list. Variants of the AN/SQQ-89(V) are currently in operation on practically all in-service CG47, DDG51, and FFG7 Class Surface Combatants. The AN/SQQ-89(V) is also programmed for all in-line, new construction DDG51 Class ships under Shipbuilding and Conversion, Navy (SC,N) Budget Line Item (BLI) 2122, while a separate AN/SQQ-90 version is programmed for all in-line, new construction DDG1000 Class ships under SC,N BLI 2119. AN/SQQ-89A(V)15 Surface Ship USW Combat System Upgrade - Detailed Description: A major upgrade to the AN/SQQ-89(V) legacy system, the AN/SQQ-89A(V)15 upgrade significantly decreases ship vulnerability to torpedo attack, improves surface ship USW shallow water warfighting capability in the littoral, and mitigates Commercial-Off-The-Shelf (COTS) obsolescence and supportability issues. The AN/SQQ-89A(V)15 upgrade was reported as a critical need for surface ASW operations by SECNAV. A Fleet Forces Command (FFC) Urgent Operational Need (UON) report identified the Fleet need for AN/SQQ-89A(V)15 upgrades. The need for the AN/SQQ-89A(V)15 is also articulated in the U.S. Pacific Command (PACOM) Integrated Priorities List (IPL); in an Office of the Chief of Naval Operations (OPNAV) funding priorities letter; in a 7th Fleet Bottom Up review report; and in the U.S. Fleet Forces ASW Integrated Priorities Capability List (IPCL).												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars		P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0205620N
The AN/SQQ-89A(V)15 upgrade is programmed for backfit on: Select CG47 Class Baseline 3 and 4 (CG59-73) ships via OP,N BLI 0960 (Cruiser Modernization); DDG51 Class Flight I/II (DDG51-78) ships via OP,N BLI 0900 (DDG Modernization) and OP,N BLI 2136 (represented here); and DDG51 Class Flight IIA and follow (DDG79+) ships via OP,N BLI 2136 (represented here). The AN/SQQ-89A(V)15 upgrade, developed under RDT&E,N PE 0205620N, capitalizes on previously fielded AN/SQQ-89(V)15 systems. The AN/SQQ-89A(V)15 is comprised of a tactical towed array sensor, the TB-37 Multi-Function Towed Array (MFTA), and will replace standard, militarized, legacy components with Commercial-Off-The-Shelf (COTS) hardware to provide an ASW combat system with the capability for mid-frequency bistatic and multi-static sonar operations. The AN/SQQ-89A(V)15 features a mid-frequency bistatic hull/towed Sonar Echo Tracker Classifier (ETC); hull/towed Sonar with Acoustic Intercept (ACI) fused data for significantly improved torpedo defense; Handling & Stowage Group (H&SG) for MFTA operation; Torpedo Setting Panel (TSP); passive towed array processing; common sub/surface sensor performance and prediction; common NAVAIR/Surface Light Airborne Multi-Purpose System (LAMPS) processing; portable software; integrated supportability; and on-board training via the SAST. The AN/SQQ-89A(V)15 will be interoperable with AEGIS Weapons System (AWS) baselines; is Open Architecture (OA) compliant (meeting OA Level 3 requirements); provides significant reductions in weight, space, cooling, and power requirements over legacy AN/SQQ-89(V) systems; is Grade A shock qualified; supports Digital Fire Control Integration (DFCI) capability; and is integrated with the Battle Force Tactical Trainer (BFTT). Additionally, to be effective against increasingly stealthy threats in an often ambiguous undersea environment, future sensors must be environmentally adaptive, have very low false alarm rates, and exploit the full range of current and future submarine detection vulnerabilities. Via the Advanced Capability Build (ACB) process under RDT&E,N PE 0205620N (ACB-13, ACB-15, ACB-17, etc.), these types of maturing/proven USW technologies will be folded into the AN/SQQ-89A(V)15 production and future technology refresh programs. The majority of the AN/SQQ-89A(V)15 system equipment is procured via the prime vendor (currently Lockheed Martin, NY and VA, with subcontract to Advanced Acoustic Concepts (AAC), NY and PA), while other Contractor Furnished Equipment (CFE), such as that for the TB-37 MFTA, OK-410 H&SG, SAST, Static Automated Bus Transfer System (SABTS), TSP, Calibrated Reference Hydrophone (CRH) Junction Box, Portable Towed Array Test Set (PTATS), On Board Repair Parts (OBRPs), Maintenance Assist Modules (MAMS), Installation Checkout (INCO) Spares, and Special Tools and Test Equipment (STTE), is procured via other, separate, contract/funding vehicles. An average, aggregate AN/SQQ-89A(V)15 shipset unit cost is indicated on the applicable budget exhibits, however, it should be noted that this unit cost is comprised of multiple contract/funding vehicles as mentioned above. Additionally, the subdivision of these unit costs to a specific ship can vary substantially as they are dependent on the pre-existing configuration of each ship. AN/SQQ-89A(V)15 production shipset delivery time is 18 months after contract award. Each subsequent system procured in an FY is delivered one month later than the previous system. Delivery of equipment to the shipyard is required no later than 30-90 days prior to a CONUS (Continental U.S.) installation start date and no later than 120 days prior to a non-CONUS installation start date. Installations are assigned to specific ships as per Fleet priorities/requirements, and based on ship availabilities. Fleet availability periods to support a major upgrade such as the AN/SQQ-89A(V)15 normally occur only once every two years in a ship's schedule. [P40A / DB400 - DDG51 CLASS SYSTEM COMPONENTS - SQQ-89A(V)15]: DB400 Cost Elements/Descriptions as Follows: [P40A / SYSTEM UPDATES (NON RECURRING ENGINEERING)]: Consists of the NRE efforts associated with the technology refresh/replacement of legacy AN/SQQ-89(V) equipment with updated Commercial-Off-The-Shelf (COTS) processors, including material procurement, fabrication, and integration of Government Furnished Property (GFP), as performed by the prime contractor. Hardware reviews will be conducted on an annual basis to determine if hardware changes are warranted based on Commercial-Off-The-Shelf (COTS) obsolescence and to identify applicable state-of-the-practice hardware components. This line also includes start-up/transition funding required for the AN/SQQ-89(V) prime in the first year of a new production/design agent contract. [P40A / MFTA (MULTI-FUNCTION TOWED ARRAY) MAJOR EQUIPMENT]: Procurement of TB-37 MFTA equipment in support of the following: full retrofit on DDG51 Class ships that currently employ pre-production shipset versions; and full module sets required for expeditious replacement in the event of major damage (the TB-37 MFTA component is considered a principle item). The TB-37 MFTA is a key component of the AN/SQQ-89A(V)15 upgrade on Surface Combatants and enables ships to have active bi-statics, Continuous Active Sonar (CAS), adaptive beamforming, passive bellringers, and the use of new sensors for advanced torpedo detection. NOTE: Unit prices for the FY13 and follow version of the TB-37 MFTA as a stand alone item here, as well as a major component within the AN/SQQ-89A(V)15 for DDG51-78 FLT I/II, DDG79 and follow FLT IIA, and DDG113 and follow MFTA/Handler backfit modifications shown in this budget, reflect the changing of initial designs from using connectionless telemetry to a more robust Towed Array Integrated Product Team (TAIPT) telemtry, and additional equipment needed to accommodate required system performance improvements over previous TB-37 MFTA versions (adds Acoustic Intercept end caps, reels, slip ring encoders, etc.).		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars		P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0205620N
[P40A / CSSQT (COMBAT SYSTEMS SHIP QUALIFICATION TRIALS)]: CSSQTs are required per Naval Sea Systems Instruction 90963.1C for all ships undergoing significant conversion/modernization availabilities. CSSQTs consist of a series of at-sea exercises and tests to verify/certify the AN/SQQ-89A(V)15 or AN/SQQ-89A(V)15 Technology Refresh has been installed properly and can be operated and maintained safely and effectively. CSSQTs follow every AN/SQQ-89A(V)15 first-of-its-kind or AN/SQQ-89A(V)15 Technology Refresh installation. [P40A / FOT&E (FOLLOW-ON OPERATIONAL TEST & EVALUATION)]: Represents the final independent test of each new increment of the AN/SQQ-89A(V)15 production baseline (i.e. ACB-13, ACB-15, ACB-17, etc.) conducted in support of the Director, Operational Test and Evaluation Title X review and report to the Congress. Follow-On Operational Test & Evaluation events are conducted to ensure each increment meets the operational effectiveness and suitability requirements for each incremental AN/SQQ-89 ACB production baseline, along with its readiness and performance goals. Each test cycle is planned the year after initial ACB baseline fielding to allow time for installation and to verify performance prior to conducting the FOT&E. [P40A / EC'S (ENGINEERING CHANGES)]: Consists of Engineering Change Proposals (ECPs) and hardware/software changes/upgrades to previously fielded and in-production AN/SQQ-89A(V)15 systems. Funding will be used to support non-recurring first article test efforts associated with the changing COTS environment as well as Reliability, Maintainability, and Availability (RM&A) modifications requested by the Fleet; correct deficiencies identified through Fleet use; upgrade unreliable components; replace obsolete components; and correct design errors found during testing. [P40A / ILS (INTEGRATED LOGISTICS SUPPORT)]: Funding is provided for all ILS planning and coordination elements associated with every AN/SQQ-89A(V)15 modification/procurement/installation, including: configuration management and control of the hardware and software associated with each modification such as Maintenance and Material Management (3M); planned and corrective maintenance procedures and drawings; supporting the procurement of upgrades to Technical Training Equipment (TTE) for shore training sites; changes to maintenance concepts and associated updates to technical documentation, such as technical manuals; development of revisions to both operator and maintenance training materials as part of the initial training curriculum development; revisions to the Navy Training System Plan; initial conduct of instructor training (train-the-trainer) until such time that the training community assumes the responsibility; modifications to supply support related provisioning data and identification of related changes to Allowance Parts Lists (APLs) and Program Support Data (PSD) spares procurement lists; and Packaging, Handling, Storage and Transportation (PHST) support during the procurement, Installation and Checkout (INCO), and testing stages of the AN/SQQ-89A(V)15 to meet evolving capabilities. [P40A / FLTASWTRACEN (FLEET ASW TRAINING CENTER)]: Upgrade of AN/SQQ-89A(V)15 training equipment for the Fleet ASW Training Center, San Diego, CA. Training system improvements are a critical factor in achieving warfighter competencies and mission readiness. Equipment must be upgraded periodically to ensure continued support of the latest backfit Advanced Capability Build (ACB) and AEGIS Weapon System (AWS) baselines and to implement Fleet prioritized warfighting training improvements to meet evolving capabilities. [P40A / AIE (AEGIS INTEGRATION EVENTS)]: Recurring engineering services associated with AN/SQQ-89A(V)15 equipment at the ACSC Wallops Island, VA test facility for interoperability risk reduction analysis purposes, necessary to ensure system compatibility with respective AWS baselines prior to installation. [P40A / SSES (SURFACE SHIP ENGINEERING SITE)]: Procurement of AN/SQQ-89A(V)15 equipment for land based sites, including the SSES at the prime vendor's facility, to support production system integration and interoperability testing. Equipment includes simulation hardware, test tools, fabrication and test of mod kits (hardware and operational software), and laboratory equipment. Equipment must be upgraded periodically to ensure continued support of the latest backfit Advanced Capability Build (ACB) and AEGIS Weapon System (AWS) baselines. [P40A / ACSC (AEGIS COMBAT SYSTEMS CENTER)]: Procurement of AN/SQQ-89A(V)15 equipment for land based sites including the ACSC at Wallops Island, VA, to support production system integration and interoperability testing. Equipment includes simulation hardware, test tools, fabrication and test of mod kits (hardware and operational software), and laboratory equipment. Equipment must be upgraded periodically to ensure continued support of the latest backfit Advanced Capability Build (ACB) and AEGIS Weapon System (AWS) baselines. [P40A / DB830 - PRODUCTION ENGINEERING - SQQ-89A(V)15]: DB830 Cost Element/Description as Follows: [P40A / PRODUCTION ENGINEERING]: Funding is for AN/SQQ-89A(V)15 program In-Service Engineering Agent (ISEA), Software Support Activity (SSA), Acquisition Engineering Agent (AEA), and Technical Design Agent (TDA) efforts in performing the following functions: writing of contracts; review and evaluation of production design data, documentation and Contract Data Requirements Lists (CDRLs); letting of production contract awards; on-site engineering support at the prime integrator's facility; production configuration control and quality assurance (Production Inspection Test (PIT) and Production Reliability Acceptance Test (PRAT)); witnessing of segment/system integration tests and preparation of reports; conduct of first article and factory acceptance tests; collection of performance metrics; generation/		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars		P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0205620N
assessment of Software Problem Reports (SPRs) and coordination with vendors; value and maintenance engineering; coordination with AEGIS regarding interface definition and ship integration; support safety review and AEGIS Integration Events (AIE); provide plans, procedures and inputs to support Information Assurance (IA) mandates; provide status reports and technical briefings; support meetings with program office; and all other production support efforts directly related to delivery of AN/SQQ-89A(V)15 software and hardware.		
[P40A / DB900 - CONSULTING SERVICES - SQQ-89A(V)15]: DB900 Cost Element/Description as Follows:		
[P40A / CONSULTING SERVICES]: Funding to provide assistance in the following areas: program and financial management; system specification validation; production planning; business case and market analyses; vendor cost, schedule, performance, production, and contract deliverable monitoring; installation planning and coordination; Integrated Logistics Support (ILS) asset management, planning, documentation, and coordination; and evaluation of Engineering Change Proposals (ECPs).		
[P40A / DB984 - SYSTEM TECHNICAL SUPPORT - SIPS]: DB984 Cost Element/Description as Follows:		
[P40A / SIPS (SCALED IMPROVED PERFORMANCE SONAR)]: Funding is for the technical support of adjunct SIPS system hardware, upgrade of software to incorporate the latest functions and enhancements, and COTS obsolescence resolution/replacement. The SIPS adjunct upgrade on CG47 and DDG51 class ships provide quick, affordable, and measurable near-term active and passive performance enhancements to the existing, legacy AN/SQQ-89(V) Surface USW Combat System (before the major AN/SQQ-89A(V)15 upgrade is fielded). Active and passive improvements include critical improvements to torpedo defense warfighting capabilities (classification and alertment); reduction in high false contact rates and clutter thereby improving USW ability to correctly classify torpedoes; active improvements in operator/tactical employment proficiency; new active waveforms to improve littoral capability; and passive improvements in signal processing.		
[P3A / AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE]: DB400 PROCUREMENT: Procurement of AN/SQQ-89A(V)15 equipment for subsequent backfit installation on all DDG79-112 Flight IIA ships. An average, aggregate AN/SQQ-89A(V)15 unit cost is indicated, however, it should be noted that this cost is comprised of multiple contract/funding vehicles. Additionally, the subdivision of these unit costs to a specific ship can vary substantially as they are dependent on the pre-existing configuration of each ship. NOTE: Unit prices for the FY13 and follow version of the AN/SQQ-89A(V)15 reflect the changing over from AN/UYQ-70 displays to state-of-the-practice Next Generation Workstations (NGWs) due to end-of-life issues, and also the changing of initial TB-37 MFTA designs from using connectionless telemetry to a more robust Towed Array Integrated Product Team (TAIPT) telemetry, and additional equipment needed to accommodate required system performance improvements over previous TB-37 MFTA versions (adds Acoustic Intercept end caps, reels, slip ring encoders, etc.). DB6IN INSTALLATION: Funding is for the full-up physical installation of the major AN/SQQ-89A(V)15 upgrade, the ordering of incidental installation material in the year prior to the actual installation, and Design Services Allocation (DSA) required for mandatory planning yard design tasks and ship checks that must be completed within the one year period leading up to the actual installation in the shipyard.		
[P3A - 2 / AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE]: DB400 PROCUREMENT: Procurement of a subset of AN/SQQ-89A(V)15 equipment, specifically the TB-37 Multi-Function Towed Array (MFTA) and Handling & Stowage Group (H&SG), for subsequent installation on all DDG113 and follow ships during their Post Shakedown Availability (PSA) period to upgrade the ASW sonar suite from an AN/SQQ-89(V)15 configuration to the AN/SQQ-89A(V)15 configuration. NOTE: Unit prices for the FY13 and follow version of the DDG113 and follow MFTA/Handler upgrade reflect the changing of initial TB-37 MFTA designs from using connectionless telemetry to a more robust Towed Array Integrated Product Team (TAIPT) telemetry, and additional equipment needed to accommodate required system performance improvements over previous TB-37 MFTA versions (adds Acoustic Intercept end caps, reels, slip ring encoders, etc.). DB6IN INSTALLATION: Funding is for the physical installation of the H&SG and TB-37 MFTA on DDG113 and follow ships during their PSA period which includes the installation of an egress, under-deck stiffeners, cables, bulkheads, opening and closing of the transom, the winch, levelwind, fairlead and control station, decking, painting, and final system testing, the ordering of incidental installation material in the year prior to the actual installation, and Design Services Allocation (DSA) required for mandatory planning yard design tasks and ship checks that must be completed within the one year period leading up to the actual installation in the shipyard.		
[P3A - 3 / AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE]: DB400 PROCUREMENT: Procurement of AN/SQQ-89A(V)15 equipment for subsequent backfit installation on select DDG51-78 FLT I/II ships. An average, aggregate AN/SQQ-89A(V)15 unit cost is indicated, however, it should be noted that this cost is comprised of multiple contract/funding vehicles. Additionally, the subdivision of these unit costs to a specific ship can vary substantially as they are dependent on the pre-existing configuration of each ship. NOTE 1: Procurement of an AN/SQQ-89A(V)15 for DDG51 Class FLT I/II ships does not require the OK-410 Handling & Stowage Group (H&SG) subsystem as needed with DDG51 Class FLT IIA ships. NOTE 2: Unit prices for the FY13 and follow version of the AN/SQQ-89A(V)15 reflect the changing over from AN/UYQ-70 displays to state-of-the-practice Next Generation Workstations (NGWs) due to end-of-life issues, and also the changing of initial TB-37 MFTA designs from using connectionless telemetry to a more robust Towed Array Integrated Product Team (TAIPT) telemetry, and additional equipment needed to accommodate required system performance improvements over previous TB-37 MFTA versions (adds Acoustic Intercept end caps, reels, slip ring encoders, etc.). DB6IN INSTALLATION: Funding is for the full-up physical installation of the major AN/SQQ-89A(V)15 upgrade, the ordering of		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars		P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0205620N
incidental installation material in the year prior to the actual installation, and Design Services Allocation (DSA) required for mandatory planning yard design tasks and ship checks that must be completed within the one year period leading up to the actual installation in the shipyard. [P3A - 4 / AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH]: DB400 PROCUREMENT: Procurement of software/hardware technology upgrades for all CG47/DDG51 Class surface combatant platforms with a previously fielded AN/SQQ-89A(V)15, as necessary to manage obsolescence, take advantage of commercial development efforts, and continue to pace the threat and ensure the system remains effective well into the 21st century. Updating the hardware and software will ensure the Fleet maintains critical Undersea Warfare capability while reducing obsolescence. Establishing a technology refresh program provides a method for rapid response to meet Fleet Anti-Submarine Warfare (ASW) requirements. DB6IN INSTALLATION: Funding is for the physical installation of the AN/SQQ-89A(V)15 Technology Refresh upgrade, the ordering of incidental installation material in the year prior to the actual installation, and Design Services Allocation (DSA) required for mandatory planning yard design tasks and ship checks that must be completed within the one year period leading up to the actual installation in the shipyard.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars					P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements: 0205620N		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
AN/SQQ-89(V) SURFACE ASW COMBAT SYSTEM	P-40a, P-5a		- / 1,233.578	- / 27.566	- / 19.031	- / 21.418	- / -	- / 21.418
1 / AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE (Warfighting Capability)	P-3a		- / 284.407	- / 47.053	- / 26.424	- / 35.656	- / -	- / 35.656
2 / AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE (Warfighting Capability)	P-3a		- / 5.795	- / -	- / 11.934	- / 5.495	- / -	- / 5.495
3 / AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE (Warfighting Capability)	P-3a		- / 0.000	- / -	- / -	- / 18.905	- / -	- / 18.905
4 / AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH (Warfighting Capability)	P-3a		- / 0.000	- / 8.612	- / 21.413	- / 21.767	- / -	- / 21.767
Total Gross/Weapon System Cost			- / 1,523.780	- / 83.231	- / 78.802	- / 103.241	- / -	- / 103.241
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
AN/SQQ-89(V) SURFACE ASW COMBAT SYSTEM	P-40a, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE (Warfighting Capability)	P-3a		- / 17.654	- / 32.560	- / 29.827	- / 11.434	- / 9.262	- / 494.277
2 / AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE (Warfighting Capability)	P-3a		- / 12.637	- / 14.228	- / 14.484	- / 14.745	Continuing	Continuing
3 / AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE (Warfighting Capability)	P-3a		- / 11.720	- / 7.865	- / 23.154	- / 32.441	- / 21.529	- / 115.614
4 / AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH (Warfighting Capability)	P-3a		- / 30.857	- / 39.396	- / 43.071	- / 45.892	Continuing	Continuing
Total Gross/Weapon System Cost			- / 98.284	- / 123.474	- / 138.661	- / 135.037	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 add due to rounding.								
Justification: The OP,N BLI 2136 budget primarily supports the upgrade of legacy, in-service AN/SQQ-89(V) systems to the superior AN/SQQ-89A(V)15 USW Combat System baseline. Additionally, the OP,N BLI 2136 budget will be responsible for periodic technology refresh initiatives in conjunction with previously fielded AN/SQQ-89A(V)15 systems across all CG47 and DDG51 Class platforms (software/hardware technology upgrades/insertions) to pace the threat and remain effective well into the 21st century.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2						P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys									Aggregated Items Title: AN/SQQ-89(V) SURFACE ASW COMBAT SYSTEM					
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) DB400 - DDG51 CLASS SYSTEM COMPONENTS - SQQ-89A(V)15																				
1.1) SYSTEM UPDATES (NON RECURRING ENGINEERING)			-	-	10.421	-	-	1.726	-	-	1.732	-	-	1.785	-	-	-	-	-	1.785
1.2) MFTA (MULTI-FUNCTION TOWED ARRAY) MAJOR EQUIPMENT ^(†)	A		2,565K	6	15.390	3,354K	2	6.709	-	-	-	-	-	-	-	-	-	-	-	
1.3) CSSQT (COMBAT SYSTEMS SHIP QUALIFICATION TRIALS) ⁽¹⁾			-	-	16.455	-	-	3.144	-	-	3.200	-	-	4.344	-	-	-	-	-	4.344
1.4) FOT&E (FOLLOW-ON OPERATIONAL TEST & EVALUATION)			-	-	3.109	-	-	-	-	-	1.834	-	-	-	-	-	-	-	-	-
1.5) EC'S (ENGINEERING CHANGES)			-	-	1,077.750	-	-	1.626	-	-	1.631	-	-	1.681	-	-	-	-	-	1.681
1.6) ILS (INTEGRATED LOGISTICS SUPPORT)			-	-	27.408	-	-	3.069	-	-	3.081	-	-	3.174	-	-	-	-	-	3.174
1.7) FLTASWTRACEN (FLEET ASW TRAINING CENTER) ⁽²⁾			-	-	1.561	-	-	1.264	-	-	-	-	-	0.534	-	-	-	-	-	0.534
1.8) AIE (AEGIS INTEGRATION EVENTS)			-	-	14.680	-	-	1.854	-	-	1.860	-	-	1.921	-	-	-	-	-	1.921
1.9) SSES (SURFACE SHIP ENGINEERING SITE) ⁽³⁾			-	-	5.745	-	-	3.153	-	-	-	-	-	3.267	-	-	-	-	-	3.267
1.10) ACSC (AEGIS COMBAT SYSTEMS CENTER)			-	-	2.301	-	-	-	-	-	0.674	-	-	-	-	-	-	-	-	-
Subtotal: 1) DB400 - DDG51 CLASS SYSTEM COMPONENTS - SQQ-89A(V)15			-	-	1,174.820	-	-	22.545	-	-	14.012	-	-	16.706	-	-	-	-	-	16.706
2) DB830 - PRODUCTION ENGINEERING - SQQ-89A(V)15																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2					P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys										Aggregated Items Title: AN/SQQ-89(V) SURFACE ASW COMBAT SYSTEM				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1) PRODUCTION ENGINEERING			-	-	34.446	-	-	3.163	-	-	3.175	-	-	3.272	-	-	-	-	-	3.272
<i>Subtotal: 2) DB830 - PRODUCTION ENGINEERING - SQQ-89A(V)15</i>			-	-	34.446	-	-	3.163	-	-	3.175	-	-	3.272	-	-	-	-	-	3.272
3) DB900 - CONSULTING SERVICES - SQQ-89A(V)15																				
3.1) CONSULTING SERVICES			-	-	13.538	-	-	1.390	-	-	1.395	-	-	1.440	-	-	-	-	-	1.440
<i>Subtotal: 3) DB900 - CONSULTING SERVICES - SQQ-89A(V)15</i>			-	-	13.538	-	-	1.390	-	-	1.395	-	-	1.440	-	-	-	-	-	1.440
4) DB984 - SYSTEM TECHNICAL SUPPORT - SIPS																				
4.1) SIPS (SCALED IMPROVED PERFORMANCE SONAR)			-	-	10.774	-	-	0.468	-	-	0.449	-	-	-	-	-	-	-	-	-
<i>Subtotal: 4) DB984 - SYSTEM TECHNICAL SUPPORT - SIPS</i>			-	-	10.774	-	-	0.468	-	-	0.449	-	-	-	-	-	-	-	-	-
Total			-	-	1,233.578	-	-	27.566	-	-	19.031	-	-	21.418	-	-	-	-	-	21.418

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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) DB400 - DDG51 CLASS SYSTEM COMPONENTS - SQQ-89A(V)15																				
1.1) SYSTEM UPDATES (NON RECURRING ENGINEERING)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) MFTA (MULTI-FUNCTION TOWED ARRAY) MAJOR EQUIPMENT ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.3) CSSQT (COMBAT SYSTEMS SHIP QUALIFICATION TRIALS) ⁽¹⁾			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.4) FOT&E (FOLLOW-ON			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2						P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys										Aggregated Items Title: AN/SQQ-89(V) SURFACE ASW COMBAT SYSTEM				
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
OPERATIONAL TEST & EVALUATION)																				
1.5) EC'S (ENGINEERING CHANGES)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) ILS (INTEGRATED LOGISTICS SUPPORT)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.7) FLTASWTRACEN (FLEET ASW TRAINING CENTER) (2)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.8) AIE (AEGIS INTEGRATION EVENTS)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.9) SSES (SURFACE SHIP ENGINEERING SITE) (3)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.10) ACSC (AEGIS COMBAT SYSTEMS CENTER)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) DB400 - DDG51 CLASS SYSTEM COMPONENTS - SQQ-89A(V)15			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) DB830 - PRODUCTION ENGINEERING - SQQ-89A(V)15																				
2.1) PRODUCTION ENGINEERING			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) DB830 - PRODUCTION ENGINEERING - SQQ-89A(V)15			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) DB900 - CONSULTING SERVICES - SQQ-89A(V)15																				
3.1) CONSULTING SERVICES			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) DB900 - CONSULTING SERVICES - SQQ-89A(V)15			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) DB984 - SYSTEM TECHNICAL SUPPORT - SIPS																				
4.1) SIPS (SCALED IMPROVED PERFORMANCE SONAR)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2								P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys								Aggregated Items Title: AN/SQQ-89(V) SURFACE ASW COMBAT SYSTEM			

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: 4) DB984 - SYSTEM TECHNICAL SUPPORT - SIPS			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Footnotes:

- (1) 1.3 CSSQT (Combat Systems Qualification Trials): CSSQT costs are dependent on the number, scope and complexity of CSSQTs planned per Fiscal Year (FY). In FY 2015 (\$3.200M), three (3) CSSQTs are planned (three for AN/SQQ-89A(V)15 FLT IIA installs). In FY 2016 (\$4.344M), five (5) CSSQTs are planned (three for AN/SQQ-89A(V)15 FLT IIA installs and two for AN/SQQ-89A(V)15 Technology Refresh installs).
- (2) 1.7 FLTASWTRACEN (Fleet ASW Training Center, San Diego, CA): FLTASWTRACEN costs are primarily biannual driven, and dependent on the scope and complexity of training equipment to be upgraded to ensure continued support of the latest AN/SQQ-89A(V)15 backfit Advanced Capability Build (ACB) and AEGIS Weapon System (AWS) baselines. There is no requirement to upgrade equipment at the FLTASWTRACEN in FY 2015. In FY 2016 (\$0.534M), funding is required to upgrade the equipment at FLTASWTRACEN.
- (3) 1.9 SSES (Surface Ship Engineering Site, Prime Vendor's Facility): SSES costs are primarily biannual driven, and dependent on the scope and complexity of shore site equipment to be upgraded to ensure continued support of the latest AN/SQQ-89A(V)15 backfit Advanced Capability Build (ACB) and AEGIS Weapon System (AWS) baselines. There is no requirement to upgrade equipment at the SSES land based site in FY 2015. In FY 2016 (\$3.267M), funding is required to upgrade the equipment at the SSES land based site.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys				Aggregated Items: AN/SQQ-89(V) SURFACE ASW COMBAT SYSTEM				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) DB400 - DDG51 CLASS SYSTEM COMPONENTS - SQQ-89A(V)15												
1.2) MFTA (MULTI-FUNCTION TOWED ARRAY) MAJOR EQUIPMENT		2013	Lockheed Martin / Syracuse, NY	C / FP	NAVSEA	Sep 2013	Mar 2015	2	3,295K	Y		May 2012
1.2) MFTA (MULTI-FUNCTION TOWED ARRAY) MAJOR EQUIPMENT		2014	Lockheed Martin / Syracuse, NY	C / FP	NAVSEA	May 2014	Nov 2015	2	3,354K	Y		May 2012

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys					Modification Number / Title: 1 / AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	284.407	47.053	26.424	35.656	-	35.656	17.654	32.560	29.827	11.434	9.262	494.277
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	284.407	47.053	26.424	35.656	-	35.656	17.654	32.560	29.827	11.434	9.262	494.277
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	284.407	47.053	26.424	35.656	-	35.656	17.654	32.560	29.827	11.434	9.262	494.277
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: [AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE] DB400 PROCUREMENT: Procurement of AN/SQQ-89A(V)15 equipment for subsequent backfit installation on all DDG79-112 Flight IIA ships. An average, aggregate AN/SQQ-89A(V)15 unit cost is indicated, however, it should be noted that this cost is comprised of multiple contract/funding vehicles. Additionally, the subdivision of these unit costs to a specific ship can vary substantially as they are dependent on the pre-existing configuration of each ship. NOTE: Unit prices for the FY13 and follow version of the AN/SQQ-89A(V)15 reflect the changing over from AN/UYQ-70 displays to state-of-the-practice Next Generation Workstations (NGWs) due to end-of-life issues, and also the changing of initial TB-37 MFTA designs from using connectionless telemetry to a more robust Towed Array Integrated Product Team (TAIPT) telemetry, and additional equipment needed to accommodate required system performance improvements over previous TB-37 MFTA versions (adds Acoustic Intercept end caps, reels, slip ring encoders, etc.). DB6IN INSTALLATION: Funding is for the full-up physical installation of the major AN/SQQ-89A(V)15 upgrade, the ordering of incidental installation material in the year prior to the actual installation, and Design Services Allocation (DSA) required for mandatory planning yard design tasks and ship checks that must be completed within the one year period leading up to the actual installation in the shipyard. The AN/SQQ-89A(V)15 requires a CNO (Chief of Naval Operations) availability period. The installation is accomplished by Alteration Installation Team (AIT) and shipyard personnel together. The AIT personnel are responsible for the removal of all AN/SQQ-89(V) legacy equipment, addition and modification of foundations, and installation, connectorization, and test of all new AN/SQQ-89A(V)15 equipment. The shipyard personnel are responsible for all rigging activities, hull access cuts, and installation of the Handling & Stowage Gear (H&SG) on non-tailed (i.e. no towed array) DDG51 Class Flight IIA hulls, which is required for the operation of the new tactical towed sonar, the TB-37 Multi-Function Towed Array (MFTA). AN/SQQ-89A(V)15 production shipset delivery time is 18 months after contract award. Each subsequent system procured in an FY is delivered one month later than the previous system. Delivery of equipment to the shipyard is required no later than 30-90 days prior to a CONUS (Continental U.S.) installation start date and no later than 120 days prior to a non-CONUS installation start date. Installations are assigned to specific ships as per Fleet priorities/requirements, and based on ship availabilities, as identified in the Fleet Modernization Program Management Information System (FMPMIS). Significant maintenance availability periods to support a major upgrade such as the AN/SQQ-89A(V)15 normally occur only once every two years in a ship's schedule.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys				Modification Number / Title: 1 / AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE					
Models of Systems Affected: Upgrade of legacy AN/SQQ-89(V) systems on all DDG79-112 ships to AN/SQQ-89A(V)15 configuration				Modification Type: Warfighting Capability				Related RDT&E PEs: 0205620N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE													
B Kits													
Recurring													
1.1) AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE - NonOrganic ⁽⁴⁾		23 / 200.617	3 / 31.642	1 / 10.736	2 / 21.861	- / -	2 / 21.861	1 / 11.127	2 / 22.654	2 / 23.063	- / -	- / -	34 / 321.700
Subtotal: Recurring		- / 200.617	- / 31.642	- / 10.736	- / 21.861	- / -	- / 21.861	- / 11.127	- / 22.654	- / 23.063	- / -	- / -	- / 321.700
Subtotal: AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE		23 / 200.617	3 / 31.642	1 / 10.736	2 / 21.861	- / -	2 / 21.861	1 / 11.127	2 / 22.654	2 / 23.063	- / -	- / -	34 / 321.700
Subtotal: Procurement, All Modification Items		- / 200.617	- / 31.642	- / 10.736	- / 21.861	- / -	- / 21.861	- / 11.127	- / 22.654	- / 23.063	- / -	- / -	- / 321.700
Installation													
Modification Item 1 of 1: AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE		- / 83.790	- / 15.411	- / 15.688	- / 13.795	- / -	- / 13.795	- / 6.527	- / 9.906	- / 6.764	- / 11.434	- / 9.262	- / 172.577
Subtotal: Installation		- / 83.790	- / 15.411	- / 15.688	- / 13.795	- / -	- / 13.795	- / 6.527	- / 9.906	- / 6.764	- / 11.434	- / 9.262	- / 172.577
Total													
Total Cost (Procurement + Support + Installation)		284.407	47.053	26.424	35.656	-	35.656	17.654	32.560	29.827	11.434	9.262	494.277

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys	Modification Number / Title: 1 / AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE

Modification Item 1 of 1: AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE

Manufacturer Information							
Manufacturer Name: Lockheed Martin ⁽⁵⁾				Manufacturer Location: Manassas, VA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	May 2014	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	
Delivery Dates	Nov 2015	Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020	

Installation Information												
Method of Implementation: AIT and SHIPYARD:: Installation Name: AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE												
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	17 / 83.790	3 / 15.411	3 / 12.483	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 111.684
FY 2014	- / -	- / -	- / 3.205	3 / 12.707	- / -	3 / 12.707	- / -	- / -	- / -	- / -	- / -	3 / 15.912
FY 2015	- / -	- / -	- / -	- / 1.088	- / -	- / 1.088	1 / 4.312	- / -	- / -	- / -	- / -	1 / 5.400
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.215	2 / 8.779	- / -	- / -	- / -	2 / 10.994
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.127	1 / 4.469	- / -	- / -	1 / 5.596
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.295	2 / 9.098	- / -	2 / 11.393
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.336	2 / 9.262	2 / 11.598
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	17 / 83.790	3 / 15.411	3 / 15.688	3 / 13.795	- / -	3 / 13.795	1 / 6.527	2 / 9.906	1 / 6.764	2 / 11.434	2 / 9.262	34 / 172.577

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	17	-	1	1	1	-	1	2	-	-	1	1	1	-	1	-	-	-	1	1	-	-	-	1	-	-	1	1	-	2	34
Out	17	-	-	1	1	1	-	1	2	-	-	1	1	1	-	1	-	-	-	1	1	-	-	-	1	-	-	1	1	2	34

Footnotes:

⁽⁴⁾ The AN/SQQ-89A(V)15 requires a CNO (Chief of Naval Operations) availability period. The installation is accomplished by Alteration Installation Team (AIT) and shipyard personnel together. The AIT personnel are responsible for the removal of all AN/SQQ-89(V) legacy equipment, addition and modification of foundations, and installation, connectorization, and test of all new AN/SQQ-89A(V)15 equipment. The shipyard personnel are responsible for all rigging activities, hull access cuts, and installation of the Handling & Stowage Gear (H&SG) on non-tailed (i.e. no towed array) DDG51 Class Flight IIA hulls, which is required for the operation of the new tactical towed sonar, the TB-37 Multi-Function Towed Array (MFTA). AN/SQQ-89A(V)15 production shipset delivery time is 18 months after contract award. Each subsequent

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys	Modification Number / Title: 1 / AN/SQQ-89A(V)15 - DDG79-112 FLT IIA UPGRADE
system procured in an FY is delivered one month later than the previous system. Delivery of equipment to the shipyard is required no later than 30-90 days prior to a CONUS (Continental U.S.) installation start date and no later than 120 days prior to a non-CONUS installation start date. Installations are assigned to specific ships as per Fleet priorities/requirements, and based on ship availabilities, as identified in the Fleet Modernization Program Management Information System (FMPMIS). Significant maintenance availability periods to support a major upgrade such as the AN/SQQ-89A(V)15 normally occur only once every two years in a ship's schedule. ⁽⁵⁾ Production leadtime is 18 months after contract award. Each subsequent system procured in an FY is delivered ONE MONTH LATER than the previous system. The majority of AN/SQQ-89A(V)15 equipment is procured via the prime vendor shown, with other supporting Contractor Furnished Equipment (CFE) procured via other, separate, contract/funding vehicles.		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys	Modification Number / Title: 2 / AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	5.795	-	11.934	5.495	-	5.495	12.637	14.228	14.484	14.745	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	5.795	-	11.934	5.495	-	5.495	12.637	14.228	14.484	14.745	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	5.795	-	11.934	5.495	-	5.495	12.637	14.228	14.484	14.745	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

[AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE] DB400 PROCUREMENT: Procurement of a subset of AN/SQQ-89A(V)15 equipment, specifically the TB-37 Multi-Function Towed Array (MFTA) and Handling & Stowage Group (H&SG), for subsequent installation on all DDG113 and follow ships during their Post Shakedown Availability (PSA) period to upgrade the ASW sonar suite from an AN/SQQ-89(V)15 configuration to the AN/SQQ-89A(V)15 configuration. NOTE: Unit prices for the FY13 and follow version of the DDG113 and follow MFTA/Handler upgrade reflect the changing of initial TB-37 MFTA designs from using connectionless telemetry to a more robust Towed Array Integrated Product Team (TAIPT) telemetry, and additional equipment needed to accommodate required system performance improvements over previous TB-37 MFTA versions (adds Acoustic Intercept end caps, reels, slip ring encoders, etc.). DB6IN INSTALLATION: Funding is for the physical installation of the H&SG and TB-37 MFTA on DDG113 and follow ships during their PSA period which includes the installation of an egress, under-deck stiffeners, cables, bulkheads, opening and closing of the transom, the winch, levelwind, fairlead and control station, decking, painting, and final system testing, the ordering of incidental installation material in the year prior to the actual installation, and Design Services Allocation (DSA) required for mandatory planning yard design tasks and ship checks that must be completed within the one year period leading up to the actual installation in the shipyard.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys				Modification Number / Title: 2 / AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE				
Models of Systems Affected: Upgrade of in-line AN/ SQQ-89(V)15 on all DDG113 and follow ships to AN/ SQQ-89A(V)15 configuration				Modification Type: Warfighting Capability				Related RDT&E PEs: 0205620N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE												
B Kits												
Recurring												
1.1) AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE - NonOrganic	1 / 5.795	- / -	2 / 10.382	1 / 5.285	- / -	1 / 5.285	2 / 10.813	2 / 10.953	2 / 11.150	2 / 11.351	Continuing	Continuing
Subtotal: Recurring	- / 5.795	- / -	- / 10.382	- / 5.285	- / -	- / 5.285	- / 10.813	- / 10.953	- / 11.150	- / 11.351	Continuing	Continuing
Subtotal: AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE	1 / 5.795	- / -	2 / 10.382	1 / 5.285	- / -	1 / 5.285	2 / 10.813	2 / 10.953	2 / 11.150	2 / 11.351	Continuing	Continuing
Subtotal: Procurement, All Modification Items	- / 5.795	- / -	- / 10.382	- / 5.285	- / -	- / 5.285	- / 10.813	- / 10.953	- / 11.150	- / 11.351	Continuing	Continuing
Installation												
Modification Item 1 of 1: AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE	- / 0.000	- / -	- / 1.552	- / 0.210	- / -	- / 0.210	- / 1.824	- / 3.275	- / 3.334	- / 3.394	- / 6.503	- / 20.092
Subtotal: Installation	- / 0.000	- / -	- / 1.552	- / 0.210	- / -	- / 0.210	- / 1.824	- / 3.275	- / 3.334	- / 3.394	- / 6.503	- / 20.092
Total												
Total Cost (Procurement + Support + Installation)	5.795	-	11.934	5.495	-	5.495	12.637	14.228	14.484	14.745	Continuing	Continuing

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys	Modification Number / Title: 2 / AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE

Modification Item 1 of 1: AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE

Manufacturer Information							
Manufacturer Name: Lockheed Martin ⁽⁶⁾				Manufacturer Location: Syracuse, NY			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020
Delivery Dates		Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020	Sep 2021

Installation Information

Method of Implementation: AIT and SHIPYARD:: Installation Name: AN/SQQ-89A(V)15 - DDG113 AND FOLLOW MFTA/HANDLER UPGRADE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / 1.552	- / -	- / -	- / -	1 / 0.000	- / -	- / -	- / -	- / -	1 / 1.552
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / 0.210	- / -	- / 0.210	1 / 1.609	1 / 1.419	- / -	- / -	- / -	2 / 3.238
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.215	1 / 1.419	- / -	- / -	- / -	1 / 1.634
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.437	2 / 2.889	- / -	- / -	2 / 3.326
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.445	2 / 2.941	- / -	2 / 3.386
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.453	2 / 2.994	2 / 3.447
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.509	2 / 3.509
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / 1.552	- / 0.210	- / -	- / 0.210	2 / 1.824	2 / 3.275	2 / 3.334	2 / 3.394	4 / 6.503	12 / 20.092

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	-	-	1	1	-	-	1	1	-	4	12
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	-	-	1	1	-	-	1	1	-	4	12

Footnotes:

⁽⁶⁾ FY 2015 funding used to finance MFTA/Handler upgrade installation on DDG113 lead ship, whose availability is 2Q FY 2017. FY 2016 request adjusted accordingly based on the available FY 2015 funds. Production leadtime is 18 months after contract award. Each subsequent system procured in an FY is delivered ONE MONTH LATER than the previous system. The majority of AN/SQQ-89A(V)15 equipment is procured via the prime vendor shown, with other supporting Contractor Furnished Equipment (CFE) procured via other, separate, contract/funding vehicles.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys	Modification Number / Title: 3 / AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	18.905	-	18.905	11.720	7.865	23.154	32.441	21.529	115.614
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	18.905	-	18.905	11.720	7.865	23.154	32.441	21.529	115.614
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	-	18.905	-	18.905	11.720	7.865	23.154	32.441	21.529	115.614
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

[AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE] DB400 PROCUREMENT: Procurement of AN/SQQ-89A(V)15 equipment for subsequent backfit installation on select DDG51-78 FLT I/II ships. An average, aggregate AN/SQQ-89A(V)15 unit cost is indicated, however, it should be noted that this cost is comprised of multiple contract/funding vehicles. Additionally, the subdivision of these unit costs to a specific ship can vary substantially as they are dependent on the pre-existing configuration of each ship. NOTE 1: Procurement of an AN/SQQ-89A(V)15 for DDG51 Class FLT I/II ships does not require the OK-410 Handling & Stowage Group (H&SG) subsystem as needed with DDG51 Class FLT IIA ships. NOTE 2: Unit prices for the FY13 and follow version of the AN/SQQ-89A(V)15 reflect the changing over from AN/UYQ-70 displays to state-of-the-practice Next Generation Workstations (NGWs) due to end-of-life issues, and also the changing of initial TB-37 MFTA designs from using connectionless telemetry to a more robust Towed Array Integrated Product Team (TAIPT) telemetry, and additional equipment needed to accommodate required system performance improvements over previous TB-37 MFTA versions (adds Acoustic Intercept end caps, reels, slip ring encoders, etc.). DB6IN INSTALLATION: Funding is for the full-up physical installation of the major AN/SQQ-89A(V)15 upgrade, the ordering of incidental installation material in the year prior to the actual installation, and Design Services Allocation (DSA) required for mandatory planning yard design tasks and ship checks that must be completed within the one year period leading up to the actual installation in the shipyard.

The AN/SQQ-89A(V)15 requires a CNO (Chief of Naval Operations) availability period. The installation is accomplished by Alteration Installation Team (AIT) and shipyard personnel together. The AIT personnel are responsible for the removal of all AN/SQQ-89(V) legacy equipment, addition and modification of foundations, and installation, connectorization, and test of all new AN/SQQ-89A(V)15 equipment. The shipyard personnel are responsible for all rigging activities and hull access cuts.

AN/SQQ-89A(V)15 production shipset delivery time is 18 months after contract award. Each subsequent system procured in an FY is delivered one month later than the previous system. Delivery of equipment to the shipyard is required no later than 30-90 days prior to a CONUS (Continental U.S.) installation start date and no later than 120 days prior to a non-CONUS installation start date. Installations are assigned to specific ships as per Fleet priorities/requirements, and based on ship availabilities, as identified in the Fleet Modernization Program Management Information System (FMPMIS). Significant maintenance availability periods to support a major upgrade such as the AN/SQQ-89A(V)15 normally occur only once every two years in a ship's schedule.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys					Modification Number / Title: 3 / AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE				
Models of Systems Affected: Upgrade of legacy AN/SQQ-89(V) systems on select DDG51-78 ships to AN/SQQ-89A(V)15 configuration				Modification Type: Warfighting Capability				Related RDT&E PEs: 0205620N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE													
B Kits													
Recurring													
1.1) AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE - NonOrganic ⁽⁷⁾		- / -	- / -	- / -	2 / 18.905	- / -	2 / 18.905	1 / 9.515	- / -	2 / 19.722	3 / 30.115	- / -	8 / 78.257
Subtotal: Recurring		- / 0.000	- / -	- / -	- / 18.905	- / -	- / 18.905	- / 9.515	- / -	- / 19.722	- / 30.115	- / -	- / 78.257
Subtotal: AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE		- / -	- / -	- / -	2 / 18.905	- / -	2 / 18.905	1 / 9.515	- / -	2 / 19.722	3 / 30.115	- / -	8 / 78.257
Subtotal: Procurement, All Modification Items		- / 0.000	- / -	- / -	- / 18.905	- / -	- / 18.905	- / 9.515	- / -	- / 19.722	- / 30.115	- / -	- / 78.257
Installation													
Modification Item 1 of 1: AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.205	- / 7.865	- / 3.432	- / 2.326	- / 21.529	- / 37.357
Subtotal: Installation		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.205	- / 7.865	- / 3.432	- / 2.326	- / 21.529	- / 37.357
Total													
Total Cost (Procurement + Support + Installation)		0.000	-	-	18.905	-	18.905	11.720	7.865	23.154	32.441	21.529	115.614

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2		P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys			Modification Number / Title: 3 / AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE		

Modification Item 1 of 1: AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE

Manufacturer Information							
Manufacturer Name: Lockheed Martin ⁽⁸⁾				Manufacturer Location: Manassas, VA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Mar 2016	Mar 2017		Mar 2019	Mar 2020
Delivery Dates			Sep 2017	Sep 2018		Sep 2020	Sep 2021

Installation Information												
Method of Implementation: AIT and SHIPYARD:: Installation Name: AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE												
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.205	2 / 6.743	- / -	- / -	- / -	2 / 8.948
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.122	1 / 3.432	- / -	- / -	1 / 4.554
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.326	2 / 7.114	2 / 9.440
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 14.415	3 / 14.415
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.205	2 / 7.865	1 / 3.432	- / 2.326	5 / 21.529	8 / 37.357

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	5	8
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	5	8

Footnotes:

⁽⁷⁾ The AN/SQQ-89A(V)15 requires a CNO (Chief of Naval Operations) availability period. The installation is accomplished by Alteration Installation Team (AIT) and shipyard personnel together. The AIT personnel are responsible for the removal of all AN/SQQ-89(V) legacy equipment, addition and modification of foundations, and installation, connectorization, and test of all new AN/SQQ-89A(V)15 equipment. The shipyard personnel are responsible for all rigging activities and hull access cuts. AN/SQQ-89A(V)15 production shipset delivery time is 18 months after contract award. Each subsequent system procured in an FY is delivered one month later than the previous system. Delivery of equipment to the shipyard is required no later than 30-90 days prior to a CONUS (Continental U.S.) installation start date and no later

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys	Modification Number / Title: 3 / AN/SQQ-89A(V)15 - DDG51-78 (SELECT) FLT I/II UPGRADE

than 120 days prior to a non-CONUS installation start date. Installations are assigned to specific ships as per Fleet priorities/requirements, and based on ship availabilities, as identified in the Fleet Modernization Program Management Information System (FMPMIS). Significant maintenance availability periods to support a major upgrade such as the AN/SQQ-89A(V)15 normally occur only once every two years in a ship's schedule.

⁽⁸⁾ Production leadtime is 18 months after contract award. Each subsequent system procured in an FY is delivered ONE MONTH LATER than the previous system. The majority of AN/SQQ-89A(V)15 equipment is procured via the prime vendor shown, with other supporting Contractor Furnished Equipment (CFE) procured via other, separate, contract/funding vehicles.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys	Modification Number / Title: 4 / AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	8.612	21.413	21.767	-	21.767	30.857	39.396	43.071	45.892	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	8.612	21.413	21.767	-	21.767	30.857	39.396	43.071	45.892	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	8.612	21.413	21.767	-	21.767	30.857	39.396	43.071	45.892	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:

[AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH] DB400 PROCUREMENT: Procurement of software/hardware technology upgrades for all CG47/DDG51 Class surface combatant platforms with a previously fielded AN/SQQ-89A(V)15, as necessary to manage obsolescence, take advantage of commercial development efforts, and continue to pace the threat and ensure the system remains effective well into the 21st century. Updating the hardware and software will ensure the Fleet maintains critical Undersea Warfare capability while reducing obsolescence. Establishing a technology refresh program provides a method for rapid response to meet Fleet Anti-Submarine Warfare (ASW) requirements. DB6IN INSTALLATION: Funding is for the physical installation of the AN/SQQ-89A(V)15 Technology Refresh upgrade, the ordering of incidental installation material in the year prior to the actual installation, and Design Services Allocation (DSA) required for mandatory planning yard design tasks and ship checks that must be completed within the one year period leading up to the actual installation in the shipyard.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys						Modification Number / Title: 4 / AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH			
Models of Systems Affected: Technology refresh of previously fielded AN/SQQ-89A(V)15 USW Combat Systems				Modification Type: Warfighting Capability					Related RDT&E PEs: 0205620N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH													
B Kits													
Recurring													
1.1) AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/ REFRESH - NonOrganic ⁽⁹⁾		- / -	2 / 8.612	5 / 20.999	4 / 17.850	- / -	4 / 17.850	5 / 22.714	7 / 32.371	7 / 33.965	7 / 33.548	Continuing	Continuing
Subtotal: Recurring		- / 0.000	- / 8.612	- / 20.999	- / 17.850	- / -	- / 17.850	- / 22.714	- / 32.371	- / 33.965	- / 33.548	Continuing	Continuing
Subtotal: AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH		- / -	2 / 8.612	5 / 20.999	4 / 17.850	- / -	4 / 17.850	5 / 22.714	7 / 32.371	7 / 33.965	7 / 33.548	Continuing	Continuing
Subtotal: Procurement, All Modification Items		- / 0.000	- / 8.612	- / 20.999	- / 17.850	- / -	- / 17.850	- / 22.714	- / 32.371	- / 33.965	- / 33.548	Continuing	Continuing
Installation													
Modification Item 1 of 1: AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH		- / 0.000	- / -	- / 0.414	- / 3.917	- / -	- / 3.917	- / 8.143	- / 7.025	- / 9.106	- / 12.344	- / 23.718	- / 64.667
Subtotal: Installation		- / 0.000	- / -	- / 0.414	- / 3.917	- / -	- / 3.917	- / 8.143	- / 7.025	- / 9.106	- / 12.344	- / 23.718	- / 64.667
Total													
Total Cost (Procurement + Support + Installation)		0.000	8.612	21.413	21.767	-	21.767	30.857	39.396	43.071	45.892	Continuing	Continuing

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2		P-1 Line Item Number / Title: 2136 / AN/SQQ-89 Surf ASW Cmbt Sys			Modification Number / Title: 4 / AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH		

Modification Item 1 of 1: AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Manassas, VA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 17

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jul 2014	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020
Delivery Dates	Dec 2015	Aug 2016	Aug 2017	Aug 2018	Aug 2019	Aug 2020	Aug 2021

Installation Information

Method of Implementation: AIT:: Installation Name: AN/SQQ-89A(V)15 - TECHNOLOGY INSERTION/REFRESH

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / 0.414	2 / 2.863	- / -	2 / 2.863	- / -	- / -	- / -	- / -	- / -	2 / 3.277
FY 2015	- / -	- / -	- / -	- / 1.054	- / -	- / 1.054	5 / 7.285	- / -	- / -	- / -	- / -	5 / 8.339
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.858	4 / 5.933	- / -	- / -	- / -	4 / 6.791
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.092	5 / 7.550	- / -	- / -	5 / 8.642
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.556	7 / 10.760	- / -	7 / 12.316
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.584	7 / 10.954	7 / 12.538
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 12.764	7 / 12.764
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / 0.414	2 / 3.917	- / -	2 / 3.917	5 / 8.143	4 / 7.025	5 / 9.106	7 / 12.344	14 / 23.718	37 / 64.667

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	1	1	-	1	2	2	-	1	2	1	-	1	2	2	-	1	2	3	1	14	37
Out	-	-	-	-	-	-	-	-	-	-	1	1	-	1	2	2	-	1	2	1	-	1	2	2	-	1	2	3	1	14	37

Footnotes:

⁽⁹⁾ AN/SQQ-89A(V)15 Technology Insertion/Refresh production lead time was increased from 9 months to 17 months to reflect the award of first-of-its-kind buys in FY 2014. The lead time now aligns more closely to that exhibited for full-up AN/SQQ-89A(V)15 systems for FLT I/II/IIA DDGs (18 months), based on Technology Insertion/Refresh buys utilizing almost all of the same equipment (minus the Multi-Function Towed Array and OK-410 Handling & Stowage Group). Installation funding for AN/SQQ-89A(V)15 Technology Insertion/Refresh equipment was phased to reflect physical installation two years after procurement, and ordering of incidental installation material as well as the Design Services Allocation (DSA) efforts required for mandatory planning yard design tasks and ship checks to be funded in the year prior to the actual installation.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars	P-1 Line Item Number / Title: 2147 / SSN Acoustics

ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,368.800	175.852	160.932	214.835	-	214.835	234.633	274.738	319.822	345.963	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	1,368.800	175.852	160.932	214.835	-	214.835	234.633	274.738	319.822	345.963	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,368.800	175.852	160.932	214.835	-	214.835	234.633	274.738	319.822	345.963	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	12.953	10.713	15.391	-	15.391	8.271	16.700	15.647	11.564	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program procures submarine systems and equipment for installation on all classes of submarines to maintain clear acoustical, tactical, and operational superiority over submarine and surface combatants in all scenarios through detection, classification, localization, and contact following. All future acoustic upgrades of Acoustic Rapid COTS Insertion (A-RCI) equipment are incorporated into this budget item. Future procurements, detailed below, are focused on supporting Littoral Warfare, Regional Sea Denial, Strike Group Support, Diesel Submarine Detection, Surveillance, and Peacetime Engagement. A-RCI is a multi-phased, evolutionary development effort geared toward addressing acoustic superiority issues through the rapid introduction of interim products applicable to SSN 688, 688I Flight, SSN21, SSGN, VA Class, and SSBN 726 Class Submarines. A-RCI Phase II provided towed array processing improvements; A-RCI Phase III provides spherical array processing improvements, and A-RCI Phase IV provides AN/BSY-1 High Frequency Upgrades for SSN 688I, SSGN, and Seawolf Classes. As part of Navy's plan to maintain acoustic superiority for in-service submarines, reduce obsolescence, and provide increased capability, the A-RCI program will modernize and sustain approximately 8-12 SSNs and 2-3 SSBNs per year through executing bi-annual software Advanced Processing Builds (APBs) and bi-annual hardware Technical Insertions (TIs).

Towed system procurements of TB-29X and TB-34X provide reliability improvements to maintain acoustic superiority, increase the service life, reduce failures, and maintain the inventory of arrays available for fleet use. Towed Array Refurbishment & Reliability Upgrades sustain current in-service TB-16/34 fat line and TB-23/29A thin line towed arrays. Towed System procurements provide upgrade/support for OK-276, OK-634, OK-542 and OA-9070 Series Towed Array Handlers installed on SSN688, SSN 688I, SSN21, SSGN, VA Class, and SSBN 726 Class Submarines.

Procurement of Low Cost Conformal Array (LCCA) provides enhanced situational awareness and collision avoidance capability in high contact density environments experienced in the littorals. Procurement of VA Unique Sensors sustains unique hull sensor systems for the VA platforms under the Critical Transducer Program as VA Class submarines transition into fleet service.

Installation funds are for actual hardware installations during shipyard and pier-side availabilities. Procurements support a 12-15 month lead time for installations.

[P40A / SA102 TOWED SYSTEMS]: Procures TB-34X Fatline and TB-29X Thinline Arrays to provide increase acoustic capability and reliability to the fleet. The program supports N8's response to the Fleet Forces Command's Urgent Operational Needs Statement message (dated 15 June 2009) which requests that a reliable Thinline Towed Array is critically needed to support submarine operations in the Western Pacific Area of Operations, refurbishment/upgrades reliability improvements to TB-16 series, TB-23, TB-29A to maintain in-service Towed Array inventory and increased array availability. Reliability improvements include new telemetry, hose material, improved internal connectors, hydrophones, tow cables, and Vibration Isolation Modules (VIMS), and Heading Sensors.

[P40A / SA105 SONAR SUPPORT EQUIPMENT]: Funds provided to procure BQN-17(A) and associated equipment.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars		P-1 Line Item Number / Title: 2147 / SSN Acoustics
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items:	Other Related Program Elements:
[P40A / SA106 HULL SENSORS]: Procurement of Low Cost Conformal Array (LCCA) provides enhanced situational awareness and collision avoidance capability, and VA Unique Sensors required to sustain unique hull sensor systems for the VA platforms under the Critical Transducer Program. [P40A / SA201 BLOCK CHANGES]: Minor Engineering Change Proposals (ECP's) and hardware changes affecting all classes of submarines are procured through this line. Funding will be used to support non-recurring first article test efforts associated with the changing COTS environment as well as Reliability, Maintainability, and Availability modifications requested by the Fleet. This line also supports the procurement of hardware necessary to implement the ECP's into the System or end item being procured. [P40A / SA202 PRODUCTION/ENGINEERING SUPPORT]: Funding supports the procurement of Acoustics Upgrades equipment and Towed System hardware. [P40A / SA203 TOWED ARRAY UNIQUE TEST EQUIPMENT]: Funding procures various towed array test equipment simulators and handling system/stowage tube inspection test equipment. [P40A / SA302 OP TRAINER UPGRADES]: Funding procures hardware upgrades and production engineering for Acoustic Upgrades operational trainer sites. [P40A / SA303 COTS SUPPORTABILITY UPGRADES]: Provides for Technology Refresh/Insertion for A-RCI kits. Tech Refresh provides for Software and Hardware updates to accommodate shifts in technology to the execution procurement years' "current state-of-the-practice" hardware. A-RCI has already undergone several technology insertion phases to accommodate integrating Advanced Processing Builds (APBs). Updates are necessary for signal and display processing hardware as APBs are introduced or as commercial support for the hardware is phased out. Tech Insertion procures the hardware necessary to upgrade and back fit the A-RCI kits. When A-RCI systems are being upgraded to subsequent phases of A-RCI, signal processing and display hardware will be procured from this line to accommodate common technology consistent with the APB being implemented in the year of introduction. In future years, requirements include additional equipment in technology insertion to prevent COTS hardware from becoming unsupportable/obsolete. Funding also supports the procurement and engineering for COTS Underwater Comms. [P40A / SA401 INITIAL TRAINING]: Provides for initial training curriculum development, training management materials, exercise control group development, pilot services, and services to the Fleet. [P40A / SA900 CONSULTING SERVICES]: Includes specification validation, contract deliverable monitoring, prime contractor monitoring for cost, schedule, and performance slips, ILS planning, and coordination of GFI. Additional support will include production planning, business case analysis, technical refresh and insertion planning and market analysis to review implementation strategies for procurement of current year "state of the practice" hardware in Acoustics programs. Consulting services will also provide production monitoring, installation planning and coordination support.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars				P-1 Line Item Number / Title: 2147 / SSN Acoustics				
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
SSN Acoustics	P-40a, P-5a		- / 661.108	- / 93.471	- / 86.212	- / 96.270	- / -	- / 96.270
1 / SA101 ACOUSTIC UPGRADES SSN 21 LEGACY REPLACEMENT (SHIPALT)	P-3a		- / 12.580	- / -	- / -	- / 5.944	- / -	- / 5.944
2 / SA101 ACOUSTIC UPGRADES LEGACY REPLACEMENT (SHIPALT)	P-3a		- / 118.510	- / 2.272	- / 1.243	- / -	- / -	- / -
3 / SA106 LOW COST CONFORMAL ARRAY KITS (SHIPALT)	P-3a		- / 84.284	- / 12.265	- / 12.472	- / 12.720	- / -	- / 12.720
4 / SA303 COTS SUPPORTABILITY UPGRADES PHASE III/IV TECHNOLOGY INSERTION UPGRADES (SHIPALT)	P-3a		- / 373.833	- / 4.182	- / -	- / -	- / -	- / -
5 / SA303 688/688I TECHNOLOGY INSERTION KITS (SHIPALT)	P-3a		- / 0.000	- / 44.526	- / 57.840	- / 58.992	- / -	- / 58.992
6 / SA303 SSGN TECH INSERTION KITS (SHIPALT)	P-3a		- / 0.000	- / -	- / -	- / -	- / -	- / -
7 / SA303 COTS SUPPORTABILITY UPGRADES SSN 21 TI KITS (SHIPALT)	P-3a		- / 11.060	- / -	- / -	- / 8.583	- / -	- / 8.583
8 / SA303 COTS SUPPORTABILITY UPGRADES VA CONVERSION KITS (SHIPALT)	P-3a		- / 107.425	- / 19.136	- / 3.165	- / 13.407	- / -	- / 13.407
9 / SA303 COTS SUPPORTABILITY UPGRADES VA NON-CONVERSION KITS (SHIPALT)	P-3a		- / 0.000	- / -	- / -	- / 8.583	- / -	- / 8.583
10 / SA303 SSBN CONVERSION (SHIPALT)	P-3a		- / 0.000	- / -	- / -	- / 10.336	- / -	- / 10.336
Total Gross/Weapon System Cost			- / 1,368.800	- / 175.852	- / 160.932	- / 214.835	- / -	- / 214.835
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
SSN Acoustics	P-40a, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / SA101 ACOUSTIC UPGRADES SSN 21 LEGACY REPLACEMENT (SHIPALT)	P-3a		- / 2.182	- / -	- / -	- / -	- / -	- / 20.706
2 / SA101 ACOUSTIC UPGRADES LEGACY REPLACEMENT (SHIPALT)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 122.025
3 / SA106 LOW COST CONFORMAL ARRAY KITS (SHIPALT)	P-3a		- / 12.975	- / 22.860	- / 31.907	- / 34.422	Continuing	Continuing
4 / SA303 COTS SUPPORTABILITY UPGRADES PHASE III/IV TECHNOLOGY INSERTION UPGRADES (SHIPALT)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 378.015
5 / SA303 688/688I TECHNOLOGY INSERTION KITS (SHIPALT)	P-3a		- / 13.274	- / 39.863	- / 52.165	- / 44.915	Continuing	Continuing
6 / SA303 SSGN TECH INSERTION KITS (SHIPALT)	P-3a		- / -	- / -	- / 16.262	- / 21.281	- / 4.788	- / 42.331
7 / SA303 COTS SUPPORTABILITY UPGRADES SSN 21 TI KITS (SHIPALT)	P-3a		- / 3.282	- / 17.860	- / 6.830	- / -	Continuing	Continuing
8 / SA303 COTS SUPPORTABILITY UPGRADES VA CONVERSION KITS (SHIPALT)	P-3a		- / 16.957	- / 3.348	- / -	- / -	Continuing	Continuing
9 / SA303 COTS SUPPORTABILITY UPGRADES VA NON-CONVERSION KITS (SHIPALT)	P-3a		- / 47.055	- / 16.740	- / -	- / 9.291	Continuing	Continuing
10 / SA303 SSBN CONVERSION (SHIPALT)	P-3a		- / 18.737	- / 24.488	- / 29.241	- / 29.825	Continuing	Continuing
Total Gross/Weapon System Cost			- / 234.633	- / 274.738	- / 319.822	- / 345.963	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 add due to rounding.								

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars		P-1 Line Item Number / Title: 2147 / SSN Acoustics
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items:	Other Related Program Elements:

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2									P-1 Line Item Number / Title: 2147 / SSN Acoustics							Aggregated Items Title: SSN Acoustics					
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) SA102 TOWED SYSTEMS																					
1.1) TB-34 FATLINE INTERFACE HWD ^(†)	B		26,509.80	51	1.352	17,000.00	11	0.187	17,000.00	9	0.153	-	-	-	-	-	-	-	-	-	
1.2) TB-34X FATLINE TOWED ARRAYS ^{(1)(†)}	B		-	-	-	5,925K	1	5.925	-	-	-	1,224K	3	3.672	-	-	-	1,224K	3	3.672	
1.4) TOWED ARRAY REFURBISHMENT & UPGRADES	A		-	-	227.877	-	-	25.444	-	-	29.218	-	-	28.147	-	-	-	-	-	28.147	
1.5) TOWED ARRAY HANDLER SYSTEM UPGRADE	A		-	-	65.898	-	-	7.002	-	-	7.121	-	-	7.263	-	-	-	-	-	7.263	
Subtotal: 1) SA102 TOWED SYSTEMS			-	-	295.127	-	-	38.558	-	-	36.492	-	-	39.082	-	-	-	-	-	39.082	
2) SA105 SONAR SUPPORT EQUIPMENT																					
2.1) BQN-17	A		-	-	6.437	-	-	0.839	-	-	0.853	-	-	0.870	-	-	-	-	-	0.870	
Subtotal: 2) SA105 SONAR SUPPORT EQUIPMENT			-	-	6.437	-	-	0.839	-	-	0.853	-	-	0.870	-	-	-	-	-	0.870	
3) SA106 HULL SENSORS																					
3.1) VA UNIQUE SENSOR ⁽²⁾	A		-	-	16.487	-	-	5.113	-	-	5.210	-	-	5.304	-	-	-	-	-	5.304	
Subtotal: 3) SA106 HULL SENSORS			-	-	16.487	-	-	5.113	-	-	5.210	-	-	5.304	-	-	-	-	-	5.304	
4) SA201 BLOCK CHANGES																					
4.1) SSEP	A		-	-	3.019	-	-	0.420	-	-	-	-	-	-	-	-	-	-	-	-	
4.2) TOWED SYSTEMS ECP'S	A		-	-	11.786	-	-	1.609	-	-	1.636	-	-	1.668	-	-	-	-	-	1.668	
4.3) ACOUSTICS	A		-	-	17.919	-	-	2.437	-	-	2.905	-	-	2.963	-	-	-	-	-	2.963	
Subtotal: 4) SA201 BLOCK CHANGES			-	-	32.724	-	-	4.466	-	-	4.541	-	-	4.631	-	-	-	-	-	4.631	
5) SA202 PRODUCTION/ENGINEERING SUPPORT																					
5.1) ACOUSTICS	A		-	-	22.031	-	-	2.995	-	-	3.046	-	-	3.106	-	-	-	-	-	3.106	
5.2) TOWED ARRAYS/HANDLING EQUIPMENT	A		-	-	28.638	-	-	3.924	-	-	2.991	-	-	3.050	-	-	-	-	-	3.050	
Subtotal: 5) SA202 PRODUCTION/ENGINEERING SUPPORT			-	-	50.669	-	-	6.919	-	-	6.037	-	-	6.156	-	-	-	-	-	6.156	
6) SA203 TOWED ARRAY UNIQUE TEST EQUIPMENT																					

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2									P-1 Line Item Number / Title: 2147 / SSN Acoustics						Aggregated Items Title: SSN Acoustics				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
6.1) TOWED ARRAY UNIQUE TEST EQUIPMENT	A		-	-	15.081	-	-	1.190	-	-	1.210	-	-	1.234	-	-	-	-	-	1.234
<i>Subtotal: 6) SA203 TOWED ARRAY UNIQUE TEST EQUIPMENT</i>			-	-	15.081	-	-	1.190	-	-	1.210	-	-	1.234	-	-	-	-	-	1.234
7) SA302 OP TRAINER UPGRADES																				
7.1) OP TRAINER GFE	A		-	-	8.049	-	-	1.051	-	-	1.069	-	-	1.090	-	-	-	-	-	1.090
<i>Subtotal: 7) SA302 OP TRAINER UPGRADES</i>			-	-	8.049	-	-	1.051	-	-	1.069	-	-	1.090	-	-	-	-	-	1.090
8) SA303 COTS SUPPORTABILITY UPGRADES																				
8.1) INSTALL SUPPORT	A		-	-	2.826	-	-	1.450	-	-	1.475	-	-	1.504	-	-	-	-	-	1.504
8.2) AEMP	A		-	-	42.246	-	-	5.254	-	-	5.344	-	-	5.450	-	-	-	-	-	5.450
8.3) COTS UWC ENGINEERING SUPPORT ⁽³⁾	A		-	-	18.276	-	-	4.747	-	-	0.828	-	-	1.729	-	-	-	-	-	1.729
8.4) COTS TECH INSERTION	A		-	-	135.489	-	-	19.521	-	-	18.763	-	-	19.138	-	-	-	-	-	19.138
8.5) SHIPYARD INSTALLATION INDUSTRIAL SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	5.606	-	-	-	-	-	5.606
<i>Subtotal: 8) SA303 COTS SUPPORTABILITY UPGRADES</i>			-	-	198.837	-	-	30.972	-	-	26.410	-	-	33.427	-	-	-	-	-	33.427
9) SA401 INITIAL TRAINING																				
9.1) ACOUSTICS	A		-	-	11.233	-	-	1.681	-	-	1.708	-	-	1.742	-	-	-	-	-	1.742
9.2) TOWED ARRAY	A		-	-	4.566	-	-	0.632	-	-	0.642	-	-	0.654	-	-	-	-	-	0.654
<i>Subtotal: 9) SA401 INITIAL TRAINING</i>			-	-	15.799	-	-	2.313	-	-	2.350	-	-	2.396	-	-	-	-	-	2.396
10) SA900 CONSULTING SERVICES																				
10.1) ACOUSTICS	A		-	-	13.737	-	-	1.370	-	-	1.364	-	-	1.391	-	-	-	-	-	1.391
10.2) TOWED SYSTEMS	A		-	-	8.161	-	-	0.680	-	-	0.676	-	-	0.689	-	-	-	-	-	0.689
<i>Subtotal: 10) SA900 CONSULTING SERVICES</i>			-	-	21.898	-	-	2.050	-	-	2.040	-	-	2.080	-	-	-	-	-	2.080
Total			-	-	661.108	-	-	93.471	-	-	86.212	-	-	96.270	-	-	-	-	-	96.270

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2						P-1 Line Item Number / Title: 2147 / SSN Acoustics										Aggregated Items Title: SSN Acoustics					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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) SA102 TOWED SYSTEMS																					
1.1) TB-34 FATLINE INTERFACE HWD ^(†)	B		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.2) TB-34X FATLINE TOWED ARRAYS ^{(1)(†)}	B		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.4) TOWED ARRAY REFURBISHMENT & UPGRADES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.5) TOWED ARRAY HANDLER SYSTEM UPGRADE	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: 1) SA102 TOWED SYSTEMS			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2) SA105 SONAR SUPPORT EQUIPMENT																					
2.1) BQN-17	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: 2) SA105 SONAR SUPPORT EQUIPMENT			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3) SA106 HULL SENSORS																					
3.1) VA UNIQUE SENSOR ⁽²⁾	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: 3) SA106 HULL SENSORS			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4) SA201 BLOCK CHANGES																					
4.1) SSEP	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4.2) TOWED SYSTEMS ECP'S	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4.3) ACOUSTICS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: 4) SA201 BLOCK CHANGES			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5) SA202 PRODUCTION/ENGINEERING SUPPORT																					
5.1) ACOUSTICS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5.2) TOWED ARRAYS/HANDLING EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: 5) SA202 PRODUCTION/ENGINEERING SUPPORT			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
6) SA203 TOWED ARRAY UNIQUE TEST EQUIPMENT																					

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2								P-1 Line Item Number / Title: 2147 / SSN Acoustics								Aggregated Items Title: SSN Acoustics				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
6.1) TOWED ARRAY UNIQUE TEST EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 6) SA203 TOWED ARRAY UNIQUE TEST EQUIPMENT</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7) SA302 OP TRAINER UPGRADES																				
7.1) OP TRAINER GFE	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 7) SA302 OP TRAINER UPGRADES</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8) SA303 COTS SUPPORTABILITY UPGRADES																				
8.1) INSTALL SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.2) AEMP	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.3) COTS UWC ENGINEERING SUPPORT ⁽³⁾	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.4) COTS TECH INSERTION	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.5) SHIPYARD INSTALLATION INDUSTRIAL SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 8) SA303 COTS SUPPORTABILITY UPGRADES</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9) SA401 INITIAL TRAINING																				
9.1) ACOUSTICS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.2) TOWED ARRAY	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 9) SA401 INITIAL TRAINING</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10) SA900 CONSULTING SERVICES																				
10.1) ACOUSTICS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.2) TOWED SYSTEMS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 10) SA900 CONSULTING SERVICES</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2147 / SSN Acoustics	Aggregated Items Title: SSN Acoustics
(†) indicates the presence of a P-5a Footnotes: (1) FY14 funding is for the First Article TB-34X Towed Array on a new competitive contract. (2) The VA Unique Sensor line (Cost Code SA106) requires a level of funding at or above the FY14 level to support an increasing number of in-service VA class submarines and the line is adjusted to support that ship inventory. The "dip" shown in FY14 was a result of a Sequestration mark and delayed an adequate level of support until FY15 when our funding was restored to the required level. The funding level displayed in FY15 and out represents the minimum funding required to support this line item. (3) The COTS UWC Engineering Support line (Cost Code SA303) requires a level of funding at or above the FY14 level (approximately \$5M per year) to keep submarines compatible and supporting communications between surface, submarines, and other craft - includes upgrades associated with hardware and software changes as well as testing. The "dip" shown in FY15, and continued in FY16, was a result of the Navy funding a higher departmental priority, and reduces operational updates until funding is restored to the required level in this area.		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics					Aggregated Items: SSN Acoustics				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date	
1) SA102 TOWED SYSTEMS													
1.1) TB-34 FATLINE INTERFACE HWD		2012	CSC / Millersville, MD	C / FP	NAVSEA	Feb 2012	Feb 2013	11	17,000.00	Y			
1.1) TB-34 FATLINE INTERFACE HWD		2013	CSC / Millersville, MD	C / FP	NAVSEA	Mar 2013	Mar 2014	11	17,000.00	Y			
1.1) TB-34 FATLINE INTERFACE HWD		2014	CSC / Millersville, MD	C / FP	NAVSEA	Oct 2013	Oct 2014	11	17,000.00	Y			
1.1) TB-34 FATLINE INTERFACE HWD		2015	CSC / Millersville, MD	C / FP	NAVSEA	Oct 2014	Oct 2015	9	17,000.00	Y			
1.2) TB-34X FATLINE TOWED ARRAYS ⁽¹⁾		2014	TBD / TBD	TBD	NAVSEA	Jul 2015	Jul 2016	1	5,925K	Y			
1.2) TB-34X FATLINE TOWED ARRAYS ⁽¹⁾		2016	TBD / TBD	C / FP	NAVSEA	Jul 2016	Jul 2017	3	1,224K	Y			

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics						Modification Number / Title: 1 / SA101 ACOUSTIC UPGRADES SSN 21 LEGACY REPLACEMENT		

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	12.580	-	-	5.944	-	5.944	2.182	-	-	-	-	20.706
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	12.580	-	-	5.944	-	5.944	2.182	-	-	-	-	20.706
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	12.580	-	-	5.944	-	5.944	2.182	-	-	-	-	20.706
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:
Funding supports Technology Insertion, HF Active Components, and Transmit Group.

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2					P-1 Line Item Number / Title: 2147 / SSN Acoustics					Modification Number / Title: 1 / SA101 ACOUSTIC UPGRADES SSN 21 LEGACY REPLACEMENT			
Models of Systems Affected: SSN ACOUSTICS				Modification Type: SHIPALT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> SA101 ACOUSTIC UPGRADES SSN 21 LEGACY REPLACEMENT													
B Kits													
Recurring													
1.1.1) SA101 ACOUSTIC UPGRADES SSN 21 LEGACY REPLACEMENT - NonOrganic ⁽⁴⁾	2 / 7.000	- / -	- / -	1 / 5.944	- / -	1 / 5.944	- / -	- / -	- / -	- / -	- / -	3 / 12.944	
1.1.2) SA101 SSN 21 LEGACY REPLACEMENT NRE - NonOrganic	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.500	
<i>Subtotal: Recurring</i>	- / 8.500	- / -	- / -	- / 5.944	- / -	- / 5.944	- / -	- / -	- / -	- / -	- / -	- / 14.444	
<i>Subtotal: SA101 ACOUSTIC UPGRADES SSN 21 LEGACY REPLACEMENT</i>	2 / 8.500	- / -	- / -	1 / 5.944	- / -	1 / 5.944	- / -	- / -	- / -	- / -	- / -	3 / 14.444	
<i>Subtotal: Procurement, All Modification Items</i>	- / 8.500	- / -	- / -	- / 5.944	- / -	- / 5.944	- / -	- / -	- / -	- / -	- / -	- / 14.444	
Installation													
<i>Modification Item 1 of 1:</i> SA101 ACOUSTIC UPGRADES SSN 21 LEGACY REPLACEMENT	- / 4.080	- / -	- / -	- / -	- / -	- / -	- / 2.182	- / -	- / -	- / -	- / -	- / 6.262	
<i>Subtotal: Installation</i>	- / 4.080	- / -	- / -	- / -	- / -	- / -	- / 2.182	- / -	- / -	- / -	- / -	- / 6.262	
Total													
Total Cost (Procurement + Support + Installation)	12.580	-	-	5.944	-	5.944	2.182	-	-	-	-	20.706	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2147 / SSN Acoustics	Modification Number / Title: 1 / SA101 ACOUSTIC UPGRADES SSN 21 LEGACY REPLACEMENT

Modification Item 1 of 1: SA101 ACOUSTIC UPGRADES SSN 21 LEGACY REPLACEMENT

Manufacturer Information

Manufacturer Name: Lockheed Martin				Manufacturer Location: VA			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Mar 2016				
Delivery Dates			Mar 2017				

Installation Information

Method of Implementation: SHIPALT:: Installation Name: SA101 ACOUSTIC UPGRADES SSN 21 LEGACY REPLACEMENT

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 4.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.080
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.182	- / -	- / -	- / -	- / -	1 / 2.182
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 4.080	- / -	- / -	- / -	- / -	- / -	1 / 2.182	- / -	- / -	- / -	- / -	3 / 6.262

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Out	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3

Footnotes:

(4) Funding supports Technology Insertion, HF Active Components, and Transmit Group.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics					Modification Number / Title: 2 / SA101 ACOUSTIC UPGRADES LEGACY REPLACEMENT				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		118.510	2.272	1.243	-	-	-	-	-	-	-	-	122.025
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>		118.510	2.272	1.243	-	-	-	-	-	-	-	-	122.025
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		118.510	2.272	1.243	-	-	-	-	-	-	-	-	122.025
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Description: Funding supports the replacement of UYK-43, Technology Insertion, HF Active components and transmit group, replacement of obsolete components, and provides cabinet spacing for future requirements.													

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics						Modification Number / Title: 2 / SA101 ACOUSTIC UPGRADES LEGACY REPLACEMENT			
Models of Systems Affected: SSN ACOUSTICS				Modification Type: SHIPALT						Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> SA101 ACOUSTIC UPGRADES LEGACY REPLACEMENT													
B Kits													
Recurring													
1.1.1) SA101 ACOUSTIC UPGRADES LEGACY REPLACEMENT - NonOrganic ⁽⁵⁾	32 / 62.281	1 / 2.272	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 64.553	
<i>Subtotal: Recurring</i>	- / 62.281	- / 2.272	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 64.553	
<i>Subtotal: SA101 ACOUSTIC UPGRADES LEGACY REPLACEMENT</i>	32 / 62.281	1 / 2.272	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 64.553	
<i>Subtotal: Procurement, All Modification Items</i>	- / 62.281	- / 2.272	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 64.553	
Installation													
<i>Modification Item 1 of 1:</i> SA101 ACOUSTIC UPGRADES LEGACY REPLACEMENT	- / 56.229	- / -	- / 1.243	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 57.472	
<i>Subtotal: Installation</i>	- / 56.229	- / -	- / 1.243	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 57.472	
Total													
Total Cost (Procurement + Support + Installation)	118.510	2.272	1.243	-	-	-	-	-	-	-	-	122.025	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2147 / SSN Acoustics	Modification Number / Title: 2 / SA101 ACOUSTIC UPGRADES LEGACY REPLACEMENT

Modification Item 1 of 1: SA101 ACOUSTIC UPGRADES LEGACY REPLACEMENT

Manufacturer Information

Manufacturer Name: Lockheed Martin				Manufacturer Location: VA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Mar 2014						
Delivery Dates	Mar 2015						

Installation Information

Method of Implementation: SHIPALT:: Installation Name: SA101 ACOUSTIC UPGRADES LEGACY REPLACEMENT

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	32 / 56.229	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 56.229
FY 2014	- / -	- / -	1 / 1.243	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.243
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	32 / 56.229	- / -	1 / 1.243	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 57.472

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	32	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33
Out	32	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33

Footnotes:

⁽⁵⁾ Funding supports the replacement of UYK-43, Technology Insertion, HF Active components and transmit group, replacement of obsolete components, and provides cabinet spacing for future requirements.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics					Modification Number / Title: 3 / SA106 LOW COST CONFORMAL ARRAY KITS				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		84.284	12.265	12.472	12.720	-	12.720	12.975	22.860	31.907	34.422	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>		84.284	12.265	12.472	12.720	-	12.720	12.975	22.860	31.907	34.422	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		84.284	12.265	12.472	12.720	-	12.720	12.975	22.860	31.907	34.422	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Description: Procurement of Low Cost Conformal Array (LCCA) to provide enhanced situational awareness and collision avoidance capability. Production Lead Time: 17 months for first delivery / 12 months for follow-on.													

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics					Modification Number / Title: 3 / SA106 LOW COST CONFORMAL ARRAY KITS				
Models of Systems Affected: SSN ACOUSTICS				Modification Type: SHIPALT					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: SA106 LOW COST CONFORMAL ARRAY KITS													
B Kits													
Recurring													
1.1.1) SA106 HULL SENSORS LOW COST CONFORMAL ARRAY KITS - NonOrganic	15 / 63.415	2 / 8.921	2 / 9.072	2 / 9.252	- / -	2 / 9.252	2 / 9.437	4 / 19.252	5 / 24.546	5 / 25.037	Continuing	Continuing	
Subtotal: Recurring	- / 63.415	- / 8.921	- / 9.072	- / 9.252	- / -	- / 9.252	- / 9.437	- / 19.252	- / 24.546	- / 25.037	Continuing	Continuing	
Subtotal: SA106 LOW COST CONFORMAL ARRAY KITS	15 / 63.415	2 / 8.921	2 / 9.072	2 / 9.252	- / -	2 / 9.252	2 / 9.437	4 / 19.252	5 / 24.546	5 / 25.037	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 63.415	- / 8.921	- / 9.072	- / 9.252	- / -	- / 9.252	- / 9.437	- / 19.252	- / 24.546	- / 25.037	Continuing	Continuing	
Installation													
Modification Item 1 of 1: SA106 LOW COST CONFORMAL ARRAY KITS	- / 20.869	- / 3.344	- / 3.400	- / 3.468	- / -	- / 3.468	- / 3.538	- / 3.608	- / 7.361	- / 9.385	- / 9.573	- / 64.546	
Subtotal: Installation	- / 20.869	- / 3.344	- / 3.400	- / 3.468	- / -	- / 3.468	- / 3.538	- / 3.608	- / 7.361	- / 9.385	- / 9.573	- / 64.546	
Total													
Total Cost (Procurement + Support + Installation)	84.284	12.265	12.472	12.720	-	12.720	12.975	22.860	31.907	34.422	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2147 / SSN Acoustics	Modification Number / Title: 3 / SA106 LOW COST CONFORMAL ARRAY KITS

Modification Item 1 of 1: SA106 LOW COST CONFORMAL ARRAY KITS

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Syracuse, NY
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Apr 2014	Apr 2015	Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020
Delivery Dates	Apr 2015	Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021

Installation Information

Method of Implementation: SHIPALT:: Installation Name: SA106 HULL SENSORS LOW COST CONFORMAL ARRAY KITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	13 / 20.869	2 / 3.344	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 24.213
FY 2014	- / -	- / -	2 / 3.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.400
FY 2015	- / -	- / -	- / -	2 / 3.468	- / -	2 / 3.468	- / -	- / -	- / -	- / -	- / -	2 / 3.468
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.538	- / -	- / -	- / -	- / -	2 / 3.538
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.608	- / -	- / -	- / -	2 / 3.608
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 7.361	- / -	- / -	4 / 7.361
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 9.385	- / -	5 / 9.385
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 9.573	5 / 9.573
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	13 / 20.869	2 / 3.344	2 / 3.400	2 / 3.468	- / -	2 / 3.468	2 / 3.538	2 / 3.608	4 / 7.361	5 / 9.385	5 / 9.573	37 / 64.546

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	13	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	2	-	-	3	2	5	37
Out	13	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	2	2	-	-	3	2	5	37

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2147 / SSN Acoustics	Modification Number / Title: 4 / SA303 COTS SUPPORTABILITY UPGRADES PHASE III/IV TECHNOLOGY INSERTION UPGRADES

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	373.833	4.182	-	-	-	-	-	-	-	-	-	378.015
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	373.833	4.182	-	-	-	-	-	-	-	-	-	378.015
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	373.833	4.182	-	-	-	-	-	-	-	-	-	378.015

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Provides technology insertion upgrade kits to previously A-RCI installed systems providing the latest and most current capability.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics				Modification Number / Title: 4 / SA303 COTS SUPPORTABILITY UPGRADES PHASE III/IV TECHNOLOGY INSERTION UPGRADES					
Models of Systems Affected: SSN ACOUSTICS				Modification Type: SHIPALT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: SA303 COTS SUPPORTABILITY UPGRADES PHASE III/IV TECHNOLOGY INSERTION UPGRADES													
B Kits													
Recurring													
1.1.1) SA303 COTS SUPPORTABILITY UPGRADES/ PHASE III/IV TECH INSERTION UPGRADES - NonOrganic ⁽⁶⁾	55 / 272.073	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 272.073	
Subtotal: Recurring	- / 272.073	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 272.073	
Subtotal: SA303 COTS SUPPORTABILITY UPGRADES PHASE III/IV TECHNOLOGY INSERTION UPGRADES	55 / 272.073	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 272.073	
Subtotal: Procurement, All Modification Items	- / 272.073	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 272.073	
Installation													
Modification Item 1 of 1: SA303 COTS SUPPORTABILITY UPGRADES PHASE III/IV TECHNOLOGY INSERTION UPGRADES	- / 101.760	- / 4.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 105.942	
Subtotal: Installation	- / 101.760	- / 4.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 105.942	
Total													
Total Cost (Procurement + Support + Installation)	373.833	4.182	-	-	-	-	-	-	-	-	-	378.015	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2147 / SSN Acoustics	Modification Number / Title: 4 / SA303 COTS SUPPORTABILITY UPGRADES PHASE III/IV TECHNOLOGY INSERTION UPGRADES

Modification Item 1 of 1: SA303 COTS SUPPORTABILITY UPGRADES PHASE III/IV TECHNOLOGY INSERTION UPGRADES

Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: VA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: SHIPALT:: Installation Name: SA303 COTS SUPPORTABILITY UPGRADES/PHASE III/IV TECH INSERTION UPGRADES

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	53 / 101.760	2 / 4.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 105.942
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	53 / 101.760	2 / 4.182	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 105.942

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	53	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	
Out	53	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	

Footnotes:

⁽⁶⁾ Provides technology insertion upgrade kits to previously A-RCI installed systems providing the latest and most current capability.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics					Modification Number / Title: 5 / SA303 688/688I TECHNOLOGY INSERTION KITS			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	44.526	57.840	58.992	-	58.992	13.274	39.863	52.165	44.915	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	44.526	57.840	58.992	-	58.992	13.274	39.863	52.165	44.915	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	44.526	57.840	58.992	-	58.992	13.274	39.863	52.165	44.915	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Provides technology insertion upgrade kits to previously installed A-RCI systems, providing the latest and most current capability and includes tech insertion to Legacy Replacement components.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics					Modification Number / Title: 5 / SA303 688/688I TECHNOLOGY INSERTION KITS				
Models of Systems Affected: SSN				Modification Type: SHIPALT					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: SA303 688/688I TECHNOLOGY INSERTION KITS													
B Kits													
Non-Recurring													
1.1.1) SA303 688i TECHNOLOGY INSERTION KITS - NonOrganic		- / -	6 / 44.526	6 / 45.078	6 / 45.978	- / -	6 / 45.978	- / -	5 / 39.863	5 / 40.660	4 / 33.180	Continuing	Continuing
Subtotal: Non-Recurring		- / 0.000	- / 44.526	- / 45.078	- / 45.978	- / -	- / 45.978	- / -	- / 39.863	- / 40.660	- / 33.180	Continuing	Continuing
Subtotal: SA303 688/688I TECHNOLOGY INSERTION KITS		- / -	6 / 44.526	6 / 45.078	6 / 45.978	- / -	6 / 45.978	- / -	5 / 39.863	5 / 40.660	4 / 33.180	Continuing	Continuing
Subtotal: Procurement, All Modification Items		- / 0.000	- / 44.526	- / 45.078	- / 45.978	- / -	- / 45.978	- / -	- / 39.863	- / 40.660	- / 33.180	Continuing	Continuing
Installation													
Modification Item 1 of 1: SA303 688/688I TECHNOLOGY INSERTION KITS		- / 0.000	- / -	- / 12.762	- / 13.014	- / -	- / 13.014	- / 13.274	- / -	- / 11.505	- / 11.735	- / 9.576	- / 71.866
Subtotal: Installation		- / 0.000	- / -	- / 12.762	- / 13.014	- / -	- / 13.014	- / 13.274	- / -	- / 11.505	- / 11.735	- / 9.576	- / 71.866
Total													
Total Cost (Procurement + Support + Installation)		0.000	44.526	57.840	58.992	-	58.992	13.274	39.863	52.165	44.915	Continuing	Continuing

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2		P-1 Line Item Number / Title: 2147 / SSN Acoustics			Modification Number / Title: 5 / SA303 688/688I TECHNOLOGY INSERTION KITS		

Modification Item 1 of 1: SA303 688/688I TECHNOLOGY INSERTION KITS

Manufacturer Information

Manufacturer Name: Lockheed Martin				Manufacturer Location: VA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Apr 2014	Apr 2015	Apr 2016		Apr 2018	Apr 2019	Apr 2020
Delivery Dates	Apr 2015	Apr 2016	Apr 2017		Apr 2019	Apr 2020	Apr 2021

Installation Information

Method of Implementation: SHIPALT:: Installation Name: SA303 688i TECHNOLOGY INSERTION KITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	6 / 12.762	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 12.762
FY 2015	- / -	- / -	- / -	6 / 13.014	- / -	6 / 13.014	- / -	- / -	- / -	- / -	- / -	6 / 13.014
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	6 / 13.274	- / -	- / -	- / -	- / -	6 / 13.274
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 11.505	- / -	- / -	5 / 11.505
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 11.735	- / -	5 / 11.735
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 9.576	4 / 9.576
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	6 / 12.762	6 / 13.014	- / -	6 / 13.014	6 / 13.274	- / -	5 / 11.505	5 / 11.735	4 / 9.576	32 / 71.866

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	3	3	-	-	3	3	-	-	3	3	-	-	-	-	-	-	3	2	-	-	3	2	4	32
Out	-	-	-	-	-	-	-	3	3	-	-	3	3	-	-	3	3	-	-	-	-	-	-	3	2	-	-	3	2	4	32

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics					Modification Number / Title: 6 / SA303 SSGN TECH INSERTION KITS			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	-	-	-	-	-	-	16.262	21.281	4.788	42.331
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	-	-	-	-	-	-	16.262	21.281	4.788	42.331
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	-	-	-	-	-	-	16.262	21.281	4.788	42.331
(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:

Provides technology insertion upgrade kits to previously installed A-RCI systems, providing the latest and most current capability and includes tech insertion to Legacy Replacement components on SSGN class submarines.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics				Modification Number / Title: 6 / SA303 SSGN TECH INSERTION KITS					
Models of Systems Affected: SSN				Modification Type: SHIPALT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: SA303 SSGN TECH INSERTION KITS													
B Kits													
Non-Recurring													
1.1.1) SSGN TECH INSERTION KITS - NonOrganic													
Subtotal: Non-Recurring													
Subtotal: SA303 SSGN TECH INSERTION KITS													
Subtotal: Procurement, All Modification Items													
Installation													
Modification Item 1 of 1: SA303 SSGN TECH INSERTION KITS													
Subtotal: Installation													
Total													
Total Cost (Procurement + Support + Installation)													

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2147 / SSN Acoustics	Modification Number / Title: 6 / SA303 SSGN TECH INSERTION KITS

Modification Item 1 of 1: SA303 SSGN TECH INSERTION KITS

Manufacturer Information

Manufacturer Name: Lockheed Martin				Manufacturer Location: VA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates						Apr 2019	Apr 2020
Delivery Dates						Apr 2020	Apr 2021

Installation Information

Method of Implementation: SHIPALT:: Installation Name: SSGN TECH INSERTION KITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.694	- / -	2 / 4.694
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.788	2 / 4.788
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.694	2 / 4.788	4 / 9.482

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	4	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	4

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics					Modification Number / Title: 7 / SA303 COTS SUPPORTABILITY UPGRADES SSN 21 TI KITS			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	11.060	-	-	8.583	-	8.583	3.282	17.860	6.830	-	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	11.060	-	-	8.583	-	8.583	3.282	17.860	6.830	-	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	11.060	-	-	8.583	-	8.583	3.282	17.860	6.830	-	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Inserts Tech Insertions onto Seawolf Class Submarines.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics				Modification Number / Title: 7 / SA303 COTS SUPPORTABILITY UPGRADES SSN 21 TI KITS					
Models of Systems Affected: SSN ACOUSTICS				Modification Type: SHIPALT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: SA303 COTS SUPPORTABILITY UPGRADES SSN 21 TI KITS													
B Kits													
Recurring													
1.1.1) SA303 COTS SUPPORTABILITY UPGRADES SSN 21 TI KITS - NonOrganic		1 / 8.000	- / -	- / -	1 / 8.583	- / -	1 / 8.583	- / -	2 / 17.860	- / -	- / -	Continuing	Continuing
Subtotal: Recurring		- / 8.000	- / -	- / -	- / 8.583	- / -	- / 8.583	- / -	- / 17.860	- / -	- / -	Continuing	Continuing
Subtotal: SA303 COTS SUPPORTABILITY UPGRADES SSN 21 TI KITS		1 / 8.000	- / -	- / -	1 / 8.583	- / -	1 / 8.583	- / -	2 / 17.860	- / -	- / -	Continuing	Continuing
Subtotal: Procurement, All Modification Items		- / 8.000	- / -	- / -	- / 8.583	- / -	- / 8.583	- / -	- / 17.860	- / -	- / -	Continuing	Continuing
Installation													
Modification Item 1 of 1: SA303 COTS SUPPORTABILITY UPGRADES SSN 21 TI KITS		- / 3.060	- / -	- / -	- / -	- / -	- / -	- / 3.282	- / -	- / 6.830	- / -	- / -	- / 13.172
Subtotal: Installation		- / 3.060	- / -	- / -	- / -	- / -	- / -	- / 3.282	- / -	- / 6.830	- / -	- / -	- / 13.172
Total													
Total Cost (Procurement + Support + Installation)		11.060	-	-	8.583	-	8.583	3.282	17.860	6.830	-	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2147 / SSN Acoustics	Modification Number / Title: 7 / SA303 COTS SUPPORTABILITY UPGRADES SSN 21 TI KITS

Modification Item 1 of 1: SA303 COTS SUPPORTABILITY UPGRADES SSN 21 TI KITS

Manufacturer Information

Manufacturer Name: Lockheed Martin				Manufacturer Location: VA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Apr 2016		Apr 2018		
Delivery Dates			Apr 2017		Apr 2019		

Installation Information

Method of Implementation: SHIPALT:: Installation Name: SA303 COTS SUPPORTABILITY UPGRADES SSN 21 TI KITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 3.060	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.060
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.282	- / -	- / -	- / -	- / -	1 / 3.282
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 6.830	- / -	- / -	2 / 6.830
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 3.060	- / -	- / -	- / -	- / -	- / -	1 / 3.282	- / -	2 / 6.830	- / -	- / -	4 / 13.172

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	4
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	4

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics						Modification Number / Title: 8 / SA303 COTS SUPPORTABILITY UPGRADES VA CONVERSION KITS		

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	107.425	19.136	3.165	13.407	-	13.407	16.957	3.348	-	-	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	107.425	19.136	3.165	13.407	-	13.407	16.957	3.348	-	-	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	107.425	19.136	3.165	13.407	-	13.407	16.957	3.348	-	-	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:
 Provides initial technology insertion upgrade for A-RCI installed systems on the VA Class, providing the latest and most current capability.

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics						Modification Number / Title: 8 / SA303 COTS SUPPORTABILITY UPGRADES VA CONVERSION KITS			
Models of Systems Affected: SSN ACOUSTICS				Modification Type: SHIPALT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> SA303 COTS SUPPORTABILITY UPGRADES VA CONVERSION KITS													
B Kits													
Recurring													
1.1.1) SA303 COTS SUPPORTABILITY UPGRADES VA CONVERSION KITS - NonOrganic ⁽⁷⁾	7 / 86.515	1 / 12.912	- / -	1 / 13.407	- / -	1 / 13.407	1 / 13.675	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 86.515	- / 12.912	- / -	- / 13.407	- / -	- / 13.407	- / 13.675	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: SA303 COTS SUPPORTABILITY UPGRADES VA CONVERSION KITS</i>	7 / 86.515	1 / 12.912	- / -	1 / 13.407	- / -	1 / 13.407	1 / 13.675	- / -	- / -	- / -	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	- / 86.515	- / 12.912	- / -	- / 13.407	- / -	- / 13.407	- / 13.675	- / -	- / -	- / -	Continuing	Continuing	
Installation													
<i>Modification Item 1 of 1:</i> SA303 COTS SUPPORTABILITY UPGRADES VA CONVERSION KITS	- / 20.910	- / 6.224	- / 3.165	- / -	- / -	- / -	- / 3.282	- / 3.348	- / -	- / -	- / -	- / 36.929	
<i>Subtotal: Installation</i>	- / 20.910	- / 6.224	- / 3.165	- / -	- / -	- / -	- / 3.282	- / 3.348	- / -	- / -	- / -	- / 36.929	
Total													
Total Cost (Procurement + Support + Installation)	107.425	19.136	3.165	13.407	-	13.407	16.957	3.348	-	-	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2147 / SSN Acoustics	Modification Number / Title: 8 / SA303 COTS SUPPORTABILITY UPGRADES VA CONVERSION KITS

Modification Item 1 of 1: SA303 COTS SUPPORTABILITY UPGRADES VA CONVERSION KITS

Manufacturer Information

Manufacturer Name: Lockheed Martin				Manufacturer Location: VA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Apr 2014		Apr 2016	Apr 2017			
Delivery Dates	Apr 2015		Apr 2017	Apr 2018			

Installation Information

Method of Implementation: SHIPALT:: Installation Name: SA303 COTS SUPPORTABILITY UPGRADES VA CONVERSION KITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 20.910	2 / 6.224	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 27.134
FY 2014	- / -	- / -	1 / 3.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.165
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.282	- / -	- / -	- / -	- / -	1 / 3.282
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.348	- / -	- / -	- / -	1 / 3.348
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 20.910	2 / 6.224	1 / 3.165	- / -	- / -	- / -	1 / 3.282	1 / 3.348	- / -	- / -	- / -	10 / 36.929

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	5	-	-	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	10
Out	5	-	-	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	10

Footnotes:

⁽⁷⁾ Provides initial technology insertion upgrade for A-RCI installed systems on the VA Class, providing the latest and most current capability.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2147 / SSN Acoustics	Modification Number / Title: 9 / SA303 COTS SUPPORTABILITY UPGRADES VA NON-CONVERSION KITS

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	-	8.583	-	8.583	47.055	16.740	-	9.291	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	-	8.583	-	8.583	47.055	16.740	-	9.291	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	-	8.583	-	8.583	47.055	16.740	-	9.291	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:

Provides technology insertion upgrade kits to previously A-RCI installed systems on the VA Class, providing the latest and most current capability.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics						Modification Number / Title: 9 / SA303 COTS SUPPORTABILITY UPGRADES VA NON-CONVERSION KITS			
Models of Systems Affected: SSN ACOUSTICS				Modification Type: SHIPALT					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: SA303 COTS SUPPORTABILITY UPGRADES VA NON-CONVERSION KITS													
B Kits													
Recurring													
1.1.1) SA303 COTS SUPPORTABILITY UPGRADES VA NON-CONVERSION KITS - NonOrganic ⁽⁸⁾	- / -	- / -	- / -	1 / 8.583	- / -	1 / 8.583	5 / 43.773	- / -	- / -	1 / 9.291	Continuing	Continuing	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 8.583	- / -	- / 8.583	- / 43.773	- / -	- / -	- / 9.291	Continuing	Continuing	
Subtotal: SA303 COTS SUPPORTABILITY UPGRADES VA NON-CONVERSION KITS	- / -	- / -	- / -	1 / 8.583	- / -	1 / 8.583	5 / 43.773	- / -	- / -	1 / 9.291	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 8.583	- / -	- / 8.583	- / 43.773	- / -	- / -	- / 9.291	Continuing	Continuing	
Installation													
Modification Item 1 of 1: SA303 COTS SUPPORTABILITY UPGRADES VA NON-CONVERSION KITS	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.282	- / 16.740	- / -	- / -	- / 3.553	- / 23.575	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.282	- / 16.740	- / -	- / -	- / 3.553	- / 23.575	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	8.583	-	8.583	47.055	16.740	-	9.291	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2147 / SSN Acoustics	Modification Number / Title: 9 / SA303 COTS SUPPORTABILITY UPGRADES VA NON-CONVERSION KITS

Modification Item 1 of 1: SA303 COTS SUPPORTABILITY UPGRADES VA NON-CONVERSION KITS

Manufacturer Information

Manufacturer Name: Lockheed Martin				Manufacturer Location: VA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Apr 2016	Apr 2017			Apr 2020
Delivery Dates			Apr 2017	Apr 2018			Apr 2021

Installation Information

Method of Implementation: SHIPALT:: Installation Name: SA303 COTS SUPPORTABILITY UPGRADES VA NON-CONVERSION KITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.282	- / -	- / -	- / -	- / -	1 / 3.282
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 16.740	- / -	- / -	- / -	5 / 16.740
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.553	1 / 3.553
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.282	5 / 16.740	- / -	- / -	1 / 3.553	7 / 23.575

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	2	-	-	-	-	-	-	-	-	1	7
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	2	-	-	-	-	-	-	-	-	1	7

Footnotes:

⁽⁸⁾ Provides technology insertion upgrade kits to previously A-RCI installed systems on the VA Class, providing the latest and most current capability.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics						Modification Number / Title: 10 / SA303 SSBN CONVERSION		
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	10.336	-	10.336	18.737	24.488	29.241	29.825	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	10.336	-	10.336	18.737	24.488	29.241	29.825	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	-	10.336	-	10.336	18.737	24.488	29.241	29.825	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Provides sonar modernization to the SSBN (TRIDENT) Class Submarine Fleet.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2147 / SSN Acoustics				Modification Number / Title: 10 / SA303 SSBN CONVERSION				
Models of Systems Affected: SSN ACOUSTICS			Modification Type: SHIPALT					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: SA303 SSBN CONVERSION												
B Kits												
Non-Recurring												
1.1.1) SA303 SSBN CONVERSION - NonOrganic	- / -	- / -	- / -	2 / 10.336	- / -	2 / 10.336	2 / 10.543	3 / 16.130	3 / 16.453	3 / 16.782	Continuing	Continuing
Subtotal: Non-Recurring	- / 0.000	- / -	- / -	- / 10.336	- / -	- / 10.336	- / 10.543	- / 16.130	- / 16.453	- / 16.782	Continuing	Continuing
Subtotal: SA303 SSBN CONVERSION	- / -	- / -	- / -	2 / 10.336	- / -	2 / 10.336	2 / 10.543	3 / 16.130	3 / 16.453	3 / 16.782	Continuing	Continuing
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 10.336	- / -	- / 10.336	- / 10.543	- / 16.130	- / 16.453	- / 16.782	Continuing	Continuing
Installation												
Modification Item 1 of 1: SA303 SSBN CONVERSION	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 8.194	- / 8.358	- / 12.788	- / 13.043	- / 13.305	- / 55.688
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 8.194	- / 8.358	- / 12.788	- / 13.043	- / 13.305	- / 55.688
Total												
Total Cost (Procurement + Support + Installation)	0.000	-	-	10.336	-	10.336	18.737	24.488	29.241	29.825	Continuing	Continuing

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2										P-1 Line Item Number / Title: 2147 / SSN Acoustics										Modification Number / Title: 10 / SA303 SSBN CONVERSION												
Modification Item 1 of 1: SA303 SSBN CONVERSION																																
Manufacturer Information																																
Manufacturer Name: TBD															Manufacturer Location: TBD																	
Administrative Leadtime (in Months): 6															Production Leadtime (in Months): 12																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020						
Contract Dates										Apr 2016				Apr 2017				Apr 2018				Apr 2019				Apr 2020						
Delivery Dates										Apr 2017				Apr 2018				Apr 2019				Apr 2020				Apr 2021						
Installation Information																																
Method of Implementation: SHIPALT:: Installation Name: SA303 SSBN CONVERSION																																
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2014		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2015		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		2 / 8.194		- / -		- / -		- / -		- / -		- / -		2 / 8.194						
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 8.358		- / -		- / -		- / -		- / -		2 / 8.358						
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 12.788		- / -		- / -		- / -		3 / 12.788						
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 13.043		- / -		- / -		3 / 13.043						
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 13.305		- / -		3 / 13.305						
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
Total		- / -		- / -		- / -		- / -		- / -		- / -		2 / 8.194		2 / 8.358		3 / 12.788		3 / 13.043		3 / 13.305		- / -		13 / 55.688						
Installation Schedule																																
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-	-	2	1	-	-	3	-	3	13
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-	-	2	1	-	-	3	-	3	13

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars	P-1 Line Item Number / Title: 2176 / Undersea Warfare Support Equipment

ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0603512N, 0604518N

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	151.529	15.869	4.663	7.331	-	7.331	7.363	8.853	6.442	7.041	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	151.529	15.869	4.663	7.331	-	7.331	7.363	8.853	6.442	7.041	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	151.529	15.869	4.663	7.331	-	7.331	7.363	8.853	6.442	7.041	Continuing	Continuing

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	0.358	0.090	0.052	-	0.052	-	-	-	-	-	0.500
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

VM201- ACOUSTIC COMMUNICATIONS (ACOMMS) AND DEPTH SOUNDERS:

Acoustic Communications provides one-way and two-way acoustic communications equipment for submarines and surface ships; Depth Sounders provide a means of measuring the depth of water below the face of a hull mounted transducer. The equipment consists of: (1) AN/WQC-2/2A, a stand-alone, single side-band, general purpose, voice, continuous wave, multiple tone communication for surface ships, submarines, and shore activities; (2) AN/WQC-6, which provides long range coded signaling from surface Anti-Submarine Warfare (ASW) ships to attack submarines when interfaced with the AN/SQS-53 and AN/BQQ-5; (3) AN/BQC-1, a stand-alone emergency voice and signal beacon for submarines; (4) AN/UQN-4/4A, a water depth measuring system that provides the distance between the ship keel and the ocean bottom; and (5) technical improvements (Engineering Changes (ECs)) to Acoustic Communication and Depth Sounder equipment. Funding will provide for continued procurement of both Probe Alert (AN/WQC-6) improvements and AN/WQC-2A and AN/UQN-4/4A ECs, plus associated production engineering support and consulting services for the SSN 21, SSN 688, SSN 774, SSBN 726, SSGN 726, DDG 51, CG 47, MCM 1, FFG 7, AS, LHA, LHD, LPD, LSD, and CVN 68 class ships and submarines.

VM301 - AIRCRAFT CARRIER TACTICAL SUPPORT CENTER (CV-TSC):

The AN/SQQ-34 Aircraft Carrier Tactical Support Center (CV-TSC) program provides increased situational awareness to the Carrier Strike Group (CSG) in support of force protection, primarily in the area of Anti-Submarine Warfare (ASW). Through the integration of off-board sensors and signal, data and display processors, the AN/SQQ-34 is utilized in detecting, classifying, and localizing threats. An integrated element of the Carrier Combat System, the AN/SQQ-34 supports the tactical deployment of embarked ASW and Surface Warfare (SUW) assets. The program provides technical refreshes to legacy AN/SQQ-34 systems on all Carriers and shore sites in support of Fleet introduction and shipboard integration of the MH-60R Multi-Mission Helicopter. Upgrades to legacy systems will enable exchange of sensor, tactical and imagery data with the MH-60R initially and eventually with P-8 and Triton Unmanned Aircraft Systems (UAS) aircraft. It completes the Kill Chain by linking sensor platform to sensor controllers and the ASW/SUW commanders. In order to support multiple MH-60R Multi-Mission Helicopters, the Common Data Link (CDL) will also be upgraded. CDL is the Navy Aircraft Carrier ultra wide-band, digital, secure data link, comprised of radio equipment that provides configuration-controlled and standardized wide-band, digital, and secure communication paths between multiple reconnaissance sensors and their users. Initially, a single User Interface Group (UIG) upgrade to CDL will be fielded in concert with CV-TSC/MH-60R deployments, providing a single MH-60R/aircraft link.

VM401 - SURFACE SONAR WINDOWS AND DOMES:

AN/SQS-26/53 Sonar Dome Rubber Windows (SDRW) are installed on CG47 and DDG51 class ships. This program provides emergency replacement, wire-reinforced, pressurized rubber acoustic windows and attachment hardware, which experience failure due to corrosion, fatigue, and impact in the splice region. The SDRW significantly improves the surface ship sonar performance by reducing flow-induced self-noise and by providing increased source level receiving and sensitivity resulting from reduced attenuation. This program provides production engineering in support of technical evaluations, failure analysis, implementation of the in-water one-side backscatter X-ray program, Government Furnished Equipment (GFE) refurbishments, and field service engineering; and complete engineering design work and material

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars		P-1 Line Item Number / Title: 2176 / Undersea Warfare Support Equipment
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0603512N, 0604518N
tests. This program also provides drawings, configuration management information, new design and fabrication technology, incorporation of lessons learned and required testing, and construct sub-element to confirm single-stage cure. VM601 - UNDERSEA WARFARE-DECISION SUPPORT SYSTEM (USW-DSS): The USW-DSS program provides an integrated, near-real time, net-centric Anti-Submarine Warfare (ASW) Command and Control (C2) capability across multiple surface platforms and critical shore sites and is capable even with low bandwidth or intermittent inter-platform communications. USW-DSS will provide a critical C2 capability for the Sea Combat (SCC), Theater USW (TUSWC), and Anti-Submarine Warfare (ASWC) Commanders. It will provide the Fleet with improved capability to plan and conduct USW operations and enable alignment of sensors for exploitation of the environment, allocation of resources, optimization of operations and risk, and vulnerability. These factors contribute to increased lethality and survivability through improved asset allocation, optimized sensor placement and situational awareness. This capability will provide USW Commanders with an expanded net-centric USW toolset reaching across all Carrier Strike Group (CSG) platforms (CVNs, CG/DDGs, and IUSS) as well as supporting shore nodes and theater assets including Theater Surface Combatants (TSC), Training, Naval Oceanographic Processing Facility (NOPF), and Commander Task Force (CTF). Funding identified provides for the procurement and installation of USW-DSS capability on CSG platforms and supporting shore nodes via permanent ship alterations (SHIPALTs). Beginning in FY 2009, USW-DSS initiated transition to a software application hosted on afloat platforms' shipboard network, the Integrated Shipboard Network System (ISNS) initially, followed by Consolidated Afloat Network and Enterprise Services (CANES). Workstation procurement is required to support the ISNS and CANES configured ships. The program is included in the Littoral and Maritime Operations Mission Capability Package (MCP) under the Joint Command and Control (JC2) construct.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars					P-1 Line Item Number / Title: 2176 / Undersea Warfare Support Equipment		
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements: 0603512N, 0604518N	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO
Title*	Exhibits	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)
Undersea Warfare Support Equipment	P-40a, P-5a		- / 77.715	- / 15.527	- / 4.364	- / 6.995	- / -
1 / VM301 - AN/SQQ-34C MH-60R MISSION INTEGRATION W/ CDL MODIFICATIONS (Added Capability)	P-3a		- / 73.814	- / 0.342	- / 0.299	- / 0.336	- / -
Total Gross/Weapon System Cost			- / 151.529	- / 15.869	- / 4.663	- / 7.331	- / -
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete
Title*	Exhibits	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)
Undersea Warfare Support Equipment	P-40a, P-5a		- / -	- / -	- / -	- / -	- / -
1 / VM301 - AN/SQQ-34C MH-60R MISSION INTEGRATION W/ CDL MODIFICATIONS (Added Capability)	P-3a		- / 0.330	- / 0.337	- / 0.342	- / 0.350	- / -
Total Gross/Weapon System Cost			- / 7.363	- / 8.853	- / 6.442	- / 7.041	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 add due to rounding.							
Justification: VM301 - AIRCRAFT CARRIER TACTICAL SUPPORT CENTER (CV-TSC): FY 2014 provides funding to upgrade the last CVN that does not have MH-60R capability, CVN 68, to the AN/SQQ-34C configuration to support the MH-60R squadron. VM401 - SURFACE SONAR WINDOWS AND DOMES: Beginning in FY 2016, SDRW procurements are reduced from three (3) to one (1) per year based on current Fleet replacement requirements and existing inventory. VM601 - UNDERSEA WARFARE-DECISION SUPPORT SYSTEM (USW-DSS): Effective FY 2013, a reprioritization of requirements lead to USW-DSS entering the sustainment phase. The outcome of the Operational Test and Evaluation (OPEVAL) of USW-DSS Build 2 Release 3 (B2R3) resulted in the restoration of funding, starting in FY 2016, to continue the installation of B2R3 systems on additional surface combatants and shore sites and provide additional funding to maintain those systems already in the Fleet.							

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2									P-1 Line Item Number / Title: 2176 / Undersea Warfare Support Equipment						Aggregated Items Title: Undersea Warfare Support Equipment					
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) VM201 - ACOUSTIC COMMUNICATIONS (ACOMMS) AND DEPTH SOUNDERS																				
1.1) Acoustic Communications and Depth Sounders			-	-	2.420	-	-	0.331	-	-	0.344	-	-	0.357	-	-	-	-	-	0.357
1.2) Production Support			-	-	1.063	-	-	0.111	-	-	0.089	-	-	0.092	-	-	-	-	-	0.092
Subtotal: 1) VM201 - ACOUSTIC COMMUNICATIONS (ACOMMS) AND DEPTH SOUNDERS			-	-	3.483	-	-	0.442	-	-	0.433	-	-	0.449	-	-	-	-	-	0.449
2) VM301 - AIRCRAFT CARRIER TACTICAL SUPPORT CENTER (CV-TSC)																				
2.1) VM301 - CV-TSC AN/SQQ-34 Upgrade for CVN 68 ⁽¹⁾	A		-	-	-	-	-	6.475	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) VM301 - AIRCRAFT CARRIER TACTICAL SUPPORT CENTER (CV-TSC)			-	-	0.000	-	-	6.475	-	-	-	-	-	-	-	-	-	-	-	
3) VM401 - SURFACE SONAR WINDOWS AND DOMES																				
3.1) Surface Sonar Windows and Domes ^{(2)(t)}	A		5,974K	4	23.895	1,841K	3	5.523	-	-	-	2,197K	1	2.197	-	-	-	2,197K	1	2.197
3.2) Sonar Composite Mold			-	-	2.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.3) Sonar Composite Dome	A		3,993K	2	7.986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.4) Production Support			-	-	9.946	-	-	0.397	-	-	0.342	-	-	0.482	-	-	-	-	-	0.482
Subtotal: 3) VM401 - SURFACE SONAR WINDOWS AND DOMES			-	-	43.827	-	-	5.920	-	-	0.342	-	-	2.679	-	-	-	-	-	2.679
4) VM601 - UNDERSEA WARFARE DECISION SUPPORT SYSTEM (USW-DSS)																				
4.1) Carrier Strike Group (CSG) Shipsets ⁽³⁾	A		11,812K	1	11.812	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.2) Backfit To Post-OPEVAL B2R3 ^{(4)(t)}	A		-	-	-	-	-	-	-	-	-	20,000.00	26	0.520	-	-	-	20,000.00	26	0.520
4.3) ISNS to CANES S/W Shipsets ^{(5)(t)}	A		0.00	19	0.000	-	-	-	-	-	-	65,000.00	7	0.455	-	-	-	65,000.00	7	0.455
4.4) Shore Sites and Tactical Trainers ⁽⁶⁾	A		-	-	3.645	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2					P-1 Line Item Number / Title: 2176 / Undersea Warfare Support Equipment										Aggregated Items Title: Undersea Warfare Support Equipment				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
4.5) Engineering Changes (Builds 1 & 2 Systems) ⁽⁷⁾			-	-	1.644	-	-	0.660	-	-	1.798	-	-	0.921	-	-	-	-	-	0.921
4.6) System Technical Support ⁽⁸⁾			-	-	2.453	-	-	1.191	-	-	1.487	-	-	1.084	-	-	-	-	-	1.084
4.7) Production Support ⁽⁹⁾			-	-	8.733	-	-	0.839	-	-	0.304	-	-	0.367	-	-	-	-	-	0.367
4.8) CANES S/W Shipset ^{(10)(t)}	A		111,473.68	19	2.118	-	-	-	-	-	-	65,000.00	8	0.520	-	-	-	65,000.00	8	0.520
Subtotal: 4) VM601 - UNDERSEA WARFARE DECISION SUPPORT SYSTEM (USW-DSS)			-	-	30.405	-	-	2.690	-	-	3.589	-	-	3.867	-	-	-	-	-	3.867
Total			-	-	77.715	-	-	15.527	-	-	4.364	-	-	6.995	-	-	-	-	-	6.995

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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) VM201 - ACOUSTIC COMMUNICATIONS (ACOMMS) AND DEPTH SOUNDERS																				
1.1) Acoustic Communications and Depth Sounders			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) Production Support			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) VM201 - ACOUSTIC COMMUNICATIONS (ACOMMS) AND DEPTH SOUNDERS			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) VM301 - AIRCRAFT CARRIER TACTICAL SUPPORT CENTER (CV-TSC)																				
2.1) VM301 - CV-TSC AN/SQQ-34 Upgrade for CVN 68 ⁽¹⁾	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) VM301 - AIRCRAFT CARRIER TACTICAL SUPPORT CENTER (CV-TSC)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3) VM401 - SURFACE SONAR WINDOWS AND DOMES																				
3.1) Surface Sonar Windows and Domes (2)(t)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity:						P-1 Line Item Number / Title:									Aggregated Items Title:					
1810N / 02 / 2						2176 / Undersea Warfare Support Equipment									Undersea Warfare Support Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.2) Sonar Composite Mold			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.3) Sonar Composite Dome	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.4) Production Support			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) VM401 - SURFACE SONAR WINDOWS AND DOMES			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) VM601 - UNDERSEA WARFARE DECISION SUPPORT SYSTEM (USW-DSS)																				
4.1) Carrier Strike Group (CSG) Shipsets (3)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2) Backfit To Post-OPEVAL B2R3 (4)(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.3) ISNS to CANES S/W Shipsets (5)(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.4) Shore Sites and Tactical Trainers (6)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5) Engineering Changes (Builds 1 & 2 Systems) (7)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.6) System Technical Support (8)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.7) Production Support (9)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.8) CANES S/W Shipset (10)(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) VM601 - UNDERSEA WARFARE DECISION SUPPORT SYSTEM (USW-DSS)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2176 / Undersea Warfare Support Equipment	Aggregated Items Title: Undersea Warfare Support Equipment

(†) indicates the presence of a P-5a

Footnotes:

- (1) VM301 - CV-TSC AN/SQQ-34 Upgrade for CVN 68: Funding identified provides for the procurement of Aircraft Carrier Tactical Support Center (CV-TSC) AN/SQQ-34C with MH-60R capability for those CVNs with legacy CV-TSC systems (AN/SQQ-34A or AN/SQQ-34B). The AN/SQQ-34C upgrade is required to fully exploit, process, fuse and distribute MH-60R in-flight Anti-Submarine Warfare (ASW) and Surface Warfare (SUW) sensor data as well as provide post-mission analysis. FY 2014 provides funding to upgrade the last CVN that does not have MH-60R capability, CVN 68, to the AN/SQQ-34C configuration to support the MH-60R squadron.
- (2) VM401 - Surface Sonar Windows and Domes/Surface Sonar Windows and Domes: Procure SDRWs, shipping fixtures, and fairing angles for emergency replacement on CG 47 and DDG 51 class hulls. Beginning in FY16, SDRW procurements are reduced from three (3) to one (1) per year based on current Fleet replacement requirements and existing inventory.
- (3) VM601 - USW-DSS/Carrier Strike Group (CSG) Shipsets: Consists of the complete USW-DSS rack (hardware, software and supporting equipment).
- (4) VM601 - USW-DSS/Backfit To Post-OPEVAL B2R3: Consists of updates to existing USW-DSS B2R3 systems in the Fleet with changes dictated by the FY13 OPEVAL of USW-DSS B2R3. The outcome of this OPEVAL resulted in the restoration of funding, starting in FY 2016, to update those USW-DSS B2R3 systems already in the Fleet.
- (5) VM601 - USW-DSS/ISNS to CANES S/W Shipsets: Consists of updates from ISNS to CANES H/W platforms with the USW-DSS B2R3 S/W suite which includes changes dictated by the FY13 OPEVAL of USW-DSS B2R3. The outcome of the OPEVAL resulted in the restoration of funding, starting in FY 2016, for this update. Schedule is dependent on/coordinated with ISNS/CANES fielding.
- (6) VM601 - USW-DSS/Shore Sites and Tactical Trainers: Consists of USW-DSS post-OPEVAL Build 2/Release 3 shore/lab assets and Tactical Training Equipment systems, which are full hardware/software suites.
- (7) VM601 - USW-DSS/Engineering Changes (Builds 1 & 2 Systems): Consists of Engineering Change Proposals (ECPs) and hardware/software changes/upgrades. Software will be upgraded to the USW-DSS post-OPEVAL Build 2/Release 3. Funding will be used to support Reliability, Maintainability, and Availability (RM&A) modifications; correct deficiencies identified through Fleet use and upgrade unreliable components.
- (8) VM601 - USW-DSS/System Technical Support: Funding is for the USW-DSS program Software Support Activity efforts in performing the following functions: generation/assessment of Software Problem Reports (SPRs)/Software Trouble Reports (STRs); responding to Fleet software Change Requests (CR); Configuration Management (CM); software Quality Assurance (QA); software installation automation; and software recovery support.
- (9) VM601 - USW-DSS/Production Support: Consists of on-site engineering support; CANES Integrated Product Team (IPT) Support; Information Assurance (IA) certification support; production quality assurance; System Sustainability Support; Integrated Logistics Support (ILS) product updates/support; status reporting and technical briefings; program office support; and all other production support efforts directly related to delivery of USW-DSS to both ISNS/CANES and ultimately the Fleet.
- (10) VM601 - CANES S/W Shipsets: Consists of initial loads of the post-OPEVAL USW-DSS B2R3 S/W suite on new CANES ships, which includes changes dictated by the FY13 OPEVAL of USW-DSS B2R3. The outcome of the OPEVAL resulted in the restoration of funding, starting in FY 2016, for this effort. Schedule is dependent on/coordinated with CANES fielding. Prior Years reflect ISNS S/W shipsets.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2			P-1 Line Item Number / Title: 2176 / Undersea Warfare Support Equipment					Aggregated Items: Undersea Warfare Support Equipment				
Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3) VM401 - SURFACE SONAR WINDOWS AND DOMES												
3.1) Surface Sonar Windows and Domes ⁽²⁾		2014	UTC Aerospace Systems (formerly Goodrich) / Jacksonville, FL	SS / FP	NAVSEA	Sep 2014	Sep 2015	3	1,841K	Y		
3.1) Surface Sonar Windows and Domes ⁽²⁾		2016	UTC Aerospace Systems (formerly Goodrich) / Jacksonville, FL	SS / FP	NAVEA	Jan 2016	Jan 2017	1	2,197K	Y		
4) VM601 - UNDERSEA WARFARE DECISION SUPPORT SYSTEM (USW-DSS)												
4.2) Backfit To Post-OPEVAL B2R3 ⁽⁴⁾		2016	NUWC/Keyport / Keyport, WA	WR	NAVSEA	Nov 2015	Feb 2016	26	20,000.00	Y		
4.3) ISNS to CANES S/W Shipsets ⁽⁵⁾		2016	NUWC/Keyport / Keyport, WA	WR	NAVSEA	Nov 2015	Feb 2016	7	65,000.00	Y		
4.8) CANES S/W Shipset ⁽¹⁰⁾		2016	NUWC/Keyport / Keyport, WA	WR	NAVSEA	Nov 2015	Feb 2016	8	65,000.00	Y		

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2176 / Undersea Warfare Support Equipment	Modification Number / Title: 1 / VM301 - AN/SQQ-34C MH-60R MISSION INTEGRATION W/ CDL MODIFICATIONS

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	73.814	0.342	0.299	0.336	-	0.336	0.330	0.337	0.342	0.350	-	76.150
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	73.814	0.342	0.299	0.336	-	0.336	0.330	0.337	0.342	0.350	-	76.150
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	73.814	0.342	0.299	0.336	-	0.336	0.330	0.337	0.342	0.350	-	76.150
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

[AN/SQQ-34C MH-60R MISSION INTEGRATION WITH CDL MODIFICATIONS] To accommodate MH-60R upgrades on the Aircraft Carrier, the existing Common Data Link System (CDLS) requires an equipment upgrade that provides an additional User Interface Group (UIG) connection to the Aircraft Carrier Tactical Support Center (CV-TSC) and an additional link to support pre-flight verification of systems. As a result of a cost-savings measure and a new initiative by N2N6 to introduce a new multi-link common data link program to the Aircraft Carrier in FY 2015, the current CDLS upgrade is being limited to the additional UIG and pre-flight verification equipment which is being installed as part of the CV-TSC equipment upgrades.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2176 / Undersea Warfare Support Equipment				Modification Number / Title: 1 / VM301 - AN/SQQ-34C MH-60R MISSION INTEGRATION W/ CDL MODIFICATIONS					
Models of Systems Affected:			Modification Type: Added Capability					Related RDT&E PEs: 0603512N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: VM301 - AN/SQQ-34C MH-60R MISSION INTEGRATION W/ CDL MODIFICATIONS													
B Kits													
Recurring													
1.1.1) AN/SQQ-34C MH-60R MISSION INTEGRATION WITH CDL MODIFICATIONS - NonOrganic	8 / 28.142	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 28.142	
Subtotal: Recurring	- / 28.142	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.142	
Non-Recurring													
1.2.1) AN/SQQ-34C MH-60R Mission Integration - Lab/ Shore Site Systems - Organic	- / 3.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.395	
Subtotal: Non-Recurring	- / 3.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.395	
Subtotal: VM301 - AN/SQQ-34C MH-60R MISSION INTEGRATION W/ CDL MODIFICATIONS	8 / 31.537	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 31.537	
Subtotal: Procurement, All Modification Items	- / 31.537	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 31.537	
Support (All Modification Items)													
2.1) Technology Insert/Refresh	- / 9.539	- / 0.342	- / 0.299	- / 0.336	- / -	- / 0.336	- / 0.330	- / 0.337	- / 0.342	- / 0.350	- / -	- / 11.875	
2.2) Production Engineering/Support	- / 11.586	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.586	
Subtotal: Support	- / 21.125	- / 0.342	- / 0.299	- / 0.336	- / -	- / 0.336	- / 0.330	- / 0.337	- / 0.342	- / 0.350	- / -	- / 23.461	
Installation													
Modification Item 1 of 1: VM301 - AN/SQQ-34C MH-60R MISSION INTEGRATION W/ CDL MODIFICATIONS	- / 21.152	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.152	
Subtotal: Installation	- / 21.152	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.152	
Total													
Total Cost (Procurement + Support + Installation)	73.814	0.342	0.299	0.336	-	0.336	0.330	0.337	0.342	0.350	-	76.150	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2176 / Undersea Warfare Support Equipment	Modification Number / Title: 1 / VM301 - AN/SQQ-34C MH-60R MISSION INTEGRATION W/ CDL MODIFICATIONS

Modification Item 1 of 1: VM301 - AN/SQQ-34C MH-60R MISSION INTEGRATION W/ CDL MODIFICATIONS

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months):	Production Leadtime (in Months):

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: SHIPYARD & AIT:: Installation Name: AN/SQQ-34C MH-60R MISSION INTEGRATION WITH CDL MODIFICATIONS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	8 / 21.152	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 21.152
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	8 / 21.152	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 21.152

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars							P-1 Line Item Number / Title: 2181 / Sonar Switches and Transducers					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	97.612	12.953	11.621	11.781	-	11.781	11.594	12.012	12.564	13.640	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	97.612	12.953	11.621	11.781	-	11.781	11.594	12.012	12.564	13.640	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	97.612	12.953	11.621	11.781	-	11.781	11.594	12.012	12.564	13.640	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	0.439	0.375	0.517	-	0.517	0.520	0.462	0.439	0.474	Continuing	Continuing
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: This program procures hydrophones, transducers, cables, associated Out-Board Electronics bottles (OBE), and acoustic windows for In-Service Undersea Warfare Sonars on all classes of submarines. The components are required to support units in the fleet on a replacement basis, at regularly scheduled ship overhauls, and at interim availabilities when units are defective, and for upgrades. [P40A / PU100 SONAR SWITCHES AND TRANSDUCERS]: Included in this line are procurements of transducers, hydrophones, windows, cables, Out-Board Electronics (OBE), domes and their associated mounting hardware, and other support equipment and materials for the following Undersea Warfare Sonars: BSY-1, BSY-2, BQQ-5, BQQ-6, BQQ-10, BQG-5, BQS-15, BQS-14A, WQC-2, WLR-9/12, BQN-13, BQN-17, BQA-8, BQH-1 and BQS-25. [P40A / PU200 ENGINEERING CHANGES]: Funds ECPs, Value Engineering awards, and hardware changes affecting the SSN 688, 688I, SEAWOLF, SSBN 726 (TRIDENT), SSGN/SSBN, and VA Class submarines. [P40A / PU300 PROGRAM SUPPORT]: Supports the procurement of equipment of sonar hydrophones, transducers, cables, Out-Board Electronics (OBEs), and acoustic windows for In-Service Undersea Warfare Sonars.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars					P-1 Line Item Number / Title: 2181 / Sonar Switches and Transducers			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Sonar Switches and Transducers	P-40a, P-5a		- / 97.612	- / 12.953	- / 11.621	- / 11.782	- / -	- / 11.782
Total Gross/Weapon System Cost			- / 97.612	- / 12.953	- / 11.621	- / 11.781	- / -	- / 11.781
*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 add due to rounding.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2								P-1 Line Item Number / Title: 2181 / Sonar Switches and Transducers							Aggregated Items Title: Sonar Switches and Transducers				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) PU100 SONAR SWITCHES AND TRANSDUCERS ^(†)																				
1.1) TR-353 ^(†)	A		6,000.00	100	0.600	6,000.00	100	0.600	6,000.00	100	0.600	6,120.00	100	0.612	-	-	-	6,120.00	100	0.612
1.2) CW-1147 DOME ^(†)	A		18,000.00	10	0.180	18,000.00	10	0.180	18,000.00	10	0.180	18,360.00	10	0.184	-	-	-	18,360.00	10	0.184
1.3) CW-1181E DOME ^(†)	A		5,000.00	19	0.095	5,000.00	18	0.090	5,000.00	18	0.090	5,100.00	18	0.092	-	-	-	5,100.00	18	0.092
1.4) DT-574 100FT ^(†)	A		2,000.00	100	0.200	-	-	-	2,000.00	100	0.200	2,040.00	100	0.204	-	-	-	2,040.00	100	0.204
1.5) MX-12309 SSGN HFSA WINDOW ^(†)	A		173,000.00	1	0.173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) CABLES	A		-	-	1.798	-	-	0.477	-	-	0.816	-	-	0.704	-	-	-	-	-	0.704
1.7) DT-574 50FT ^(†)	A		533.33	90	0.048	-	-	-	550.46	327	0.180	561.47	300	0.168	-	-	-	561.47	300	0.168
1.8) CW-1181C ^(†)	A		5,481.25	160	0.877	5,000.00	18	0.090	5,000.00	20	0.100	5,100.00	20	0.102	-	-	-	5,100.00	20	0.102
1.9) MX-10624 ^(†)	A		6,329.79	94	0.595	13,181.82	11	0.145	13,400.00	10	0.134	13,668.00	10	0.137	-	-	-	13,668.00	10	0.137
1.10) MX-12062 HFSA 688i Window ^(†)	A		159,400.00	10	1.594	-	-	-	171,000.00	1	0.171	-	-	-	-	-	-	-	-	-
1.11) MX-11474 SEAWOLF HFSA Window ^(†)	A		185,200.00	5	0.926	197,000.00	1	0.197	-	-	-	-	-	-	-	-	-	-	-	-
1.12) DT-5740 LSA OBE ^(†)	A		14,399.01	203	2.923	16,272.00	25	0.407	16,346.15	26	0.425	16,673.07	26	0.433	-	-	-	16,673.07	26	0.433
1.13) DT-511 Hydrophone ^(†)	A		20,800.00	35	0.728	27,797.66	18	0.500	28,266.67	15	0.424	28,832.00	15	0.432	-	-	-	28,832.00	15	0.432
1.14) DT-592 Hydrophone ^(†)	A		31,035.09	57	1.769	39,000.00	18	0.702	-	-	-	40,535.82	18	0.730	-	-	-	40,535.82	18	0.730
1.15) TR-233 Transducer ^(†)	A		10,153.56	267	2.711	-	-	-	10,000.00	20	0.200	10,200.00	20	0.204	-	-	-	10,200.00	20	0.204
1.16) TR-282 Transducer ^(†)	A		21,500.00	60	1.290	26,900.00	10	0.269	27,363.64	11	0.301	27,910.91	7	0.195	-	-	-	27,910.91	7	0.195
1.17) TR-302 Transducer ^(†)	A		23,159.82	219	5.072	22,067.59	18	0.397	22,428.57	21	0.471	22,877.14	18	0.412	-	-	-	22,877.14	18	0.412
1.18) TR-302 Window ^(†)	A		876.92	65	0.057	1,000.00	10	0.010	1,000.00	10	0.010	1,020.00	10	0.010	-	-	-	1,020.00	10	0.010
1.19) TR-321 Transducer	A		7,463.64	110	0.821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.20) TR-321 V CTD ^(†)	A		22,065.93	182	4.016	18,000.00	20	0.360	18,318.18	22	0.403	18,684.54	22	0.411	-	-	-	18,684.54	22	0.411

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy										Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2					P-1 Line Item Number / Title: 2181 / Sonar Switches and Transducers					Aggregated Items Title: Sonar Switches and Transducers	

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1.21) TR-338 Transducer ^(†)	A		21,490.65	214	4.599	23,000.00	18	0.414	-	-	-	-	-	-	-	-	-	-	-	-
1.22) TR-341 Transducer ^(†)	A		16,587.82	427	7.083	-	-	-	-	-	-	18,000.00	20	0.360	-	-	-	18,000.00	20	0.360
1.23) WAA OBE ^(†)	A		7,970.59	170	1.355	12,000.00	50	0.600	12,000.00	50	0.600	12,240.00	50	0.612	-	-	-	12,240.00	50	0.612
1.24) NCC CONNECTORS ^(†)	A		932.61	2,760	2.574	1,000.00	52	0.052	1,000.00	54	0.054	1,020.00	52	0.053	-	-	-	1,020.00	52	0.053
1.25) DT-699 HFSA RECEIVE ^(†)	A		58,595.24	84	4.922	70,000.00	7	0.490	71,000.00	6	0.426	72,420.00	6	0.435	-	-	-	72,420.00	6	0.435
1.26) TR-364 HFSP XMIT ^(†)	A		127,428.57	14	1.784	152,924.26	1	0.153	155,523.97	1	0.156	158,634.45	1	0.159	-	-	-	158,634.45	1	0.159
1.27) TR-317 ^(†)	A		3,221.14	8,949	28.826	4,001.90	1,050	4.202	4,000.00	681	2.724	4,080.00	650	2.652	-	-	-	4,080.00	650	2.652
1.28) TR-281 ^(†)	A		20,648.65	37	0.764	-	-	-	-	-	-	22,870.22	6	0.137	-	-	-	22,870.22	6	0.137
1.29) DT-592 Hydrophone First Article ^(†)	A		-	-	-	-	-	-	130,000.00	3	0.390	-	-	-	-	-	-	-	-	-
1.30) TR-233 Transducer First Article ^(†)	A		-	-	-	100,000.00	3	0.300	-	-	-	-	-	-	-	-	-	-	-	-
1.32) TR-321 Transducer First Article ^(†)	A		-	-	-	-	-	-	-	-	-	125,000.00	2	0.250	-	-	-	125,000.00	2	0.250
1.33) TR-338 Transducer First Article ^(†)	A		-	-	-	-	-	-	-	-	-	125,000.00	2	0.250	-	-	-	125,000.00	2	0.250
1.34) TR-341 Transducer First Article ^(†)	A		-	-	-	-	-	-	100,000.00	3	0.300	-	-	-	-	-	-	-	-	-
1.35) TR-317 FIRST ARTICLE	A		81,750.00	4	0.327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.36) TR-353 FIRST ARTICLE	A		81,750.00	4	0.327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.37) TR-281 FIRST ARTICLE ^(†)	A		-	-	-	-	-	-	100,000.00	3	0.300	-	-	-	-	-	-	-	-	-
1.38) DT-513 Hydrophone ^(†)	A		3,331.99	744	2.479	4,133.09	110	0.455	4,203.35	120	0.504	4,287.42	82	0.352	-	-	-	4,287.42	82	0.352
1.39) DT-574 50FT FIRST ARTICLE ^(†)	A		-	-	-	35,000.00	6	0.210	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2						P-1 Line Item Number / Title: 2181 / Sonar Switches and Transducers									Aggregated Items Title: Sonar Switches and Transducers				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
1.40) DT-574 100FT FIRST ARTICLE ^(†)	A		-	-	-	35,000.00	6	0.210	-	-	-	-	-	-	-	-	-	-	-	-
1.41) DT-100 HFSA RECEIVE ^(†)	A		-	-	-	75,000.00	3	0.225	75,000.00	3	0.225	76,500.00	3	0.230	-	-	-	76,500.00	3	0.230
<i>Subtotal: 1) PU100 SONAR SWITCHES AND TRANSDUCERS</i>			-	-	<i>81.513</i>	-	-	<i>11.735</i>	-	-	<i>10.384</i>	-	-	<i>10.520</i>	-	-	-	-	-	<i>10.520</i>
2) PU200 ENGINEERING CHANGES																				
2.1) ENGINEERING CHANGES	A		-	-	1.540	-	-	0.205	-	-	0.206	-	-	0.210	-	-	-	-	-	0.210
<i>Subtotal: 2) PU200 ENGINEERING CHANGES</i>			-	-	<i>1.540</i>	-	-	<i>0.205</i>	-	-	<i>0.206</i>	-	-	<i>0.210</i>	-	-	-	-	-	<i>0.210</i>
3) PU300 PROGRAM SUPPORT																				
3.1) PROGRAM SUPPORT	A		-	-	14.559	-	-	1.013	-	-	1.031	-	-	1.052	-	-	-	-	-	1.052
<i>Subtotal: 3) PU300 PROGRAM SUPPORT</i>			-	-	<i>14.559</i>	-	-	<i>1.013</i>	-	-	<i>1.031</i>	-	-	<i>1.052</i>	-	-	-	-	-	<i>1.052</i>
Total			-	-	97.612	-	-	12.953	-	-	11.621	-	-	11.782	-	-	-	-	-	11.782

^(†) indicates the presence of a P-5a

Footnotes:

⁽¹⁾ Due to Fleet usage requirements to maintain submarines in an operational status, adjustments are made to quantities throughout the FYDP. Items not procured in a single year do not impact the production line.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2			P-1 Line Item Number / Title: 2181 / Sonar Switches and Transducers					Aggregated Items: Sonar Switches and Transducers				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) PU100 SONAR SWITCHES AND TRANSDUCERS												
1.1) TR-353		2013	ULTRA / Braintree, MA	C / FP	NUWC	Jun 2013	Jun 2014	100	6,000.00	Y		
1.1) TR-353		2014	ULTRA / Braintree, MA	C / FP	NUWC	Mar 2014	Mar 2015	100	6,000.00	Y		
1.1) TR-353		2015	ULTRA / Braintree, MA	C / FP	NUWC	Mar 2015	Mar 2016	100	6,000.00	Y		
1.1) TR-353		2016	UNKNOWN / TBD	TBD	NUWC	Mar 2016	Mar 2016	100	6,120.00	Y		
1.2) CW-1147 DOME		2013	NUWC Newport / RI	Various	NUWC	Aug 2013	Aug 2014	10	18,000.00	Y		
1.2) CW-1147 DOME		2014	NUWC Newport / RI	Various	NUWC	Aug 2014	Aug 2015	10	18,000.00	Y		
1.2) CW-1147 DOME		2015	NUWC Newport / RI	C / FP	NUWC	Mar 2015	Mar 2016	10	18,000.00	Y		
1.2) CW-1147 DOME		2016	NUWC Newport / RI	C / FP	NUWC	Mar 2016	Mar 2017	10	18,360.00	Y		
1.3) CW-1181E DOME		2013	NUWC Newport / RI	Various	NUWC	Mar 2013	Mar 2014	19	5,000.00	Y		
1.3) CW-1181E DOME		2014	NUWC Newport / RI	Various	NUWC	Mar 2014	Mar 2015	18	5,000.00	Y		
1.3) CW-1181E DOME		2015	NUWC NPT / NEWPORT, RI	C / TBD	NUWC	Mar 2015	Mar 2016	18	5,000.00	Y		
1.3) CW-1181E DOME		2016	NUWC NPT / NEWPORT, RI	C / TBD	NUWC	Mar 2016	Mar 2017	18	5,100.00	Y		
1.4) DT-574 100FT		2013	Massa / Hingham, MA	C / FP	NUWC	Jul 2013	Jul 2014	100	2,000.00	Y		
1.4) DT-574 100FT		2015	Massa / Hingham, MA	C / FP	NUWC	Mar 2015	Mar 2016	100	2,000.00	Y		
1.4) DT-574 100FT		2016	Unknown / TBD	C / TBD	NUWC	Mar 2016	Mar 2017	100	2,040.00	Y		
1.5) MX-12309 SSGN HFSA WINDOW		2013	NUWC Newport / RI	Various	NUWC	Aug 2013	Aug 2014	1	173,000.00	Y		
1.7) DT-574 50FT		2013	NUWC NPT / NEWPORT, RI	C / FP	NUWC	May 2013	May 2014	90	533.33	Y		
1.7) DT-574 50FT		2015	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2015	Mar 2016	327	550.46	Y		
1.7) DT-574 50FT		2016	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2016	Mar 2017	300	561.47	Y		
1.8) CW-1181C		2012	Globe Composites / Rockland, MA	WR	NUWC	Mar 2012	Mar 2013	18	5,000.00	Y		
1.8) CW-1181C		2013	NUWC Newport / RI	Various	NUWC	Mar 2013	Mar 2014	16	5,000.00	Y		
1.8) CW-1181C		2014	NUWC Newport / RI	Various	NUWC	Mar 2014	Mar 2015	18	5,000.00	Y		
1.8) CW-1181C		2015	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2015	Mar 2016	20	5,000.00	Y		
1.8) CW-1181C		2016	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2016	Mar 2017	20	5,100.00	Y		
1.9) MX-10624		2012	NUWC NPT / NEWPORT, RI	Various	NUWC	Aug 2012	Aug 2013	4	13,000.00	Y		
1.9) MX-10624		2014	NUWC NPT / NEWPORT, RI	Various	NUWC	Aug 2014	Aug 2015	11	13,181.82	Y		
1.9) MX-10624		2015	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2015	Mar 2016	10	13,400.00	Y		
1.9) MX-10624		2016	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2016	Mar 2017	10	13,668.00	Y		
1.10) MX-12062 HFSA 688i Window		2012	Goodrich / Jacksonville, FL	C / FP	NUWC	Mar 2012	Mar 2013	2	169,000.00	Y		
1.10) MX-12062 HFSA 688i Window		2015	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2015	Mar 2016	1	171,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2181 / Sonar Switches and Transducers				Aggregated Items: Sonar Switches and Transducers				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.11) MX-11474 SEAWOLF HFSA Window		2012	NUWC Newport / RI	Various	NUWC	Aug 2012	Aug 2013	2	191,000.00	Y		
1.11) MX-11474 SEAWOLF HFSA Window		2014	NUWC Newport / RI	Various	NUWC	Jul 2014	Jul 2015	1	197,000.00	Y		
1.12) DT-5740 LSA OBE		2012	SyQwest / Warwick, RI	C / FP	NUWC	Apr 2012	Apr 2013	20	16,000.00	Y		
1.12) DT-5740 LSA OBE		2013	SyQwest / Warwick, RI	C / FP	NUWC	Aug 2013	Aug 2014	10	16,000.00	Y		
1.12) DT-5740 LSA OBE		2014	SyQwest / Warwick, RI	C / FP	NUWC	May 2014	May 2015	25	16,272.00	Y		
1.12) DT-5740 LSA OBE		2015	SyQwest / Warwick, RI	C / FP	NUWC	Mar 2015	Mar 2016	26	16,346.15	Y		
1.12) DT-5740 LSA OBE		2016	SyQwest / Warwick, RI	C / FP	NUWC	Mar 2016	Mar 2017	26	16,673.07	Y		
1.13) DT-511 Hydrophone		2013	Channel Technologies / Santa Barbara, CA	C / FP	NUWC	Aug 2013	Aug 2014	10	27,400.00	Y		
1.13) DT-511 Hydrophone		2014	Channel Technologies / Santa Barbara, CA	C / FP	NUWC	May 2014	May 2015	18	27,797.66	Y		
1.13) DT-511 Hydrophone		2015	Channel Technologies / Santa Barbara, CA	C / FP	NUWC	Mar 2015	Mar 2016	15	28,266.67	Y		
1.13) DT-511 Hydrophone		2016	Channel Technologies / Santa Barbara, CA	C / FP	NUWC	Mar 2016	Mar 2017	15	28,832.00	Y		
1.14) DT-592 Hydrophone		2012	Channel Technologies / Santa Barbara, CA	C / FP	NUWC	Sep 2012	Sep 2013	5	39,000.00	Y		
1.14) DT-592 Hydrophone		2014	Channel Technologies / Santa Barbara, CA	C / FP	NUWC	Sep 2014	Sep 2015	18	39,000.00	Y		
1.14) DT-592 Hydrophone		2016	Channel Technologies / Santa Barbara, CA	C / FP	NUWC	Oct 2015	Oct 2016	18	40,535.82	Y		
1.15) TR-233 Transducer		2012	Harris Corporation / Walpole, MA	C / FP	NUWC	Mar 2012	Mar 2013	60	9,000.00	Y		
1.15) TR-233 Transducer		2015	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2015	Mar 2016	20	10,000.00	Y		
1.15) TR-233 Transducer		2016	NUWC NPT / NEWPORT, RI	TBD	NUWC	Mar 2016	Mar 2017	20	10,200.00	Y		
1.16) TR-282 Transducer		2014	NUWC Newport / RI	Various	NUWC	Mar 2014	Mar 2015	10	26,900.00	Y		
1.16) TR-282 Transducer		2015	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2015	Mar 2016	11	27,363.64	Y		
1.16) TR-282 Transducer		2016	NUWC NPT / NEWPORT, RI	TBD	NUWC	Mar 2016	Mar 2017	7	27,910.91	Y		
1.17) TR-302 Transducer		2012	ITT Excelis / Salt Lake City, UT	C / FP	NUWC	Mar 2012	Mar 2013	42	21,357.14	Y		
1.17) TR-302 Transducer		2013	NUWC NPT / NEWPORT, RI	Various	NUWC	Sep 2013	Sep 2013	20	21,698.71	Y		
1.17) TR-302 Transducer		2014	NUWC NPT / NEWPORT, RI	Various	NUWC	May 2014	May 2014	18	22,067.59	Y		
1.17) TR-302 Transducer		2015	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2015	Mar 2015	21	22,428.57	Y		
1.17) TR-302 Transducer		2016	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2016	Mar 2016	18	22,877.14	Y		
1.18) TR-302 Window		2012	NUWC Newport / RI	Various	NUWC	Mar 2012	Mar 2013	19	1,000.00	Y		
1.18) TR-302 Window		2013	NUWC Newport / RI	Various	NUWC	Mar 2013	Mar 2014	6	1,000.00	Y		
1.18) TR-302 Window		2014	NUWC Newport / RI	Various	NUWC	Mar 2014	Mar 2015	10	1,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2			P-1 Line Item Number / Title: 2181 / Sonar Switches and Transducers					Aggregated Items: Sonar Switches and Transducers				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.18) TR-302 Window		2015	NUWC Newport / RI	Various	NUWC	Mar 2015	Mar 2016	10	1,000.00	Y		
1.18) TR-302 Window		2016	NUWC Newport / RI	Various	NUWC	Mar 2016	Mar 2017	10	1,020.00	Y		
1.20) TR-321 V CTD		2014	Teledyne RD Instruments / Poway, CA	C / FP	NUWC	Mar 2014	Mar 2015	20	18,000.00	Y		
1.20) TR-321 V CTD		2015	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2015	Mar 2016	22	18,318.18	Y		
1.20) TR-321 V CTD		2016	NUWC NPT / NEWPORT, RI	Various	NUWC	Mar 2016	Mar 2017	22	18,684.54	Y		
1.21) TR-338 Transducer		2012	Channel Technologies / Santa Barbara, CA	C / FP	NUWC	May 2012	May 2013	24	22,000.00	Y		
1.21) TR-338 Transducer		2013	Channel Technologies / Santa Barbara, CA	C / FP	NUWC	Sep 2013	Sep 2014	20	23,000.00	Y		
1.21) TR-338 Transducer		2014	Channel Technologies / Santa Barbara, CA	C / FP	NUWC	Mar 2014	Mar 2015	18	23,000.00	Y		
1.22) TR-341 Transducer		2012	NUWC Newport / RI	Various	NUWC	Mar 2012	Mar 2013	47	17,000.00	Y		
1.22) TR-341 Transducer		2016	UNKNOWN / TBD	TBD	NUWC	Mar 2016	Mar 2017	20	18,000.00	Y		
1.23) WAA OBE		2013	SyQwest / Warwick, RI	C / FP	NUWC	Aug 2013	Aug 2014	50	12,000.00	Y		
1.23) WAA OBE		2014	SyQwest / Warwick, RI	C / FP	NUWC	May 2014	May 2015	50	12,000.00	Y		
1.23) WAA OBE		2015	SyQwest / Warwick, RI	C / FP	NUWC	Mar 2015	Mar 2016	50	12,000.00	Y		
1.23) WAA OBE		2016	SyQwest / Warwick, RI	C / FP	NUWC	Mar 2016	Mar 2017	50	12,240.00	Y		
1.24) NCC CONNECTORS		2012	Various / Various	C / FP	NUWC	Mar 2012	Mar 2013	442	1,000.00	Y		
1.24) NCC CONNECTORS		2013	Various / Various	C / FP	NUWC	Apr 2013	Apr 2014	45	1,000.00	Y		
1.24) NCC CONNECTORS		2014	Various / Various	C / FP	NUWC	May 2014	May 2015	52	1,000.00	Y		
1.24) NCC CONNECTORS		2015	Various / Various	C / FP	NUWC	Mar 2015	Mar 2016	54	1,000.00	Y		
1.24) NCC CONNECTORS		2016	Various / Various	C / FP	NUWC	Mar 2016	Mar 2017	52	1,020.00	Y		
1.25) DT-699 HFSA RECEIVE		2012	SyQwest / Warwick, RI	C / FP	NUWC	Apr 2012	Apr 2013	17	69,350.00	Y		
1.25) DT-699 HFSA RECEIVE		2014	SyQwest / Warwick, RI	C / FP	NUWC	May 2014	May 2015	7	70,000.00	Y		
1.25) DT-699 HFSA RECEIVE		2015	TRF / Portsmouth, MA	C / FP	NUWC	Mar 2015	Mar 2016	6	71,000.00	Y		
1.25) DT-699 HFSA RECEIVE		2016	Unknown / TBD	TBD	NUWC	Mar 2016	Mar 2017	6	72,420.00	Y		
1.26) TR-364 HFSP XMIT		2012	NUWC Newport / RI	Various	NUWC	Aug 2012	Aug 2013	1	148,000.00	Y		
1.26) TR-364 HFSP XMIT		2013	NUWC Newport / RI	Various	NUWC	Aug 2013	Aug 2014	1	150,368.00	Y		
1.26) TR-364 HFSP XMIT		2014	NUWC Newport / RI	Various	NUWC	Mar 2014	Mar 2015	1	152,924.26	Y		
1.26) TR-364 HFSP XMIT		2015	NUWC NPT / NEWPORT, RI	TBD	NUWC	Mar 2015	Mar 2016	1	155,523.97	Y		
1.26) TR-364 HFSP XMIT		2016	NUWC NPT / NEWPORT, RI	TBD	NUWC	Mar 2016	Mar 2017	1	158,634.45	Y		
1.27) TR-317		2012	ULTRA / Braintree, MA	C / FP	NUWC	Jun 2012	Jun 2013	1,110	4,000.00	Y		
1.27) TR-317		2013	ULTRA / Braintree, MA	C / FP	NUWC	Dec 2012	Dec 2013	1,095	4,000.91	Y		
1.27) TR-317		2014	ULTRA / Braintree, MA	C / FP	NUWC	Mar 2014	Mar 2015	1,050	4,001.90	Y		
1.27) TR-317		2015	ULTRA / Braintree, MA	C / FP	NUWC	Mar 2015	Mar 2016	681	4,000.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2			P-1 Line Item Number / Title: 2181 / Sonar Switches and Transducers					Aggregated Items: Sonar Switches and Transducers				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.27) TR-317		2016	ULTRA / Braintree, MA	C / FP	NUWC	Mar 2016	Mar 2017	650	4,080.00	Y		
1.28) TR-281		2012	NUWC Newport / RI	Various	NUWC	Aug 2012	Aug 2013	10	21,400.00	Y		
1.28) TR-281		2016	SyQwest / Warwick, RI	TBD	NUWC	Aug 2016	Aug 2017	6	22,870.22	Y		
1.29) DT-592 Hydrophone First Article		2015	Channel Technologies / Santa Barbara, CA	Various	NUWC	Mar 2015	Mar 2016	3	130,000.00	Y		
1.30) TR-233 Transducer First Article		2014	NUWC Newport / RI	Various	NUWC	Mar 2014	Mar 2015	3	100,000.00	Y		
1.32) TR-321 Transducer First Article		2016	UNKNOWN / TBD	TBD	NUWC	Mar 2016	Mar 2018	2	125,000.00	Y		
1.33) TR-338 Transducer First Article		2016	UNKNOWN / TBD	TBD	NUWC	Mar 2016	Mar 2017	2	125,000.00	Y		
1.34) TR-341 Transducer First Article		2015	SyQwest / Warwick, RI	Various	NUWC	Mar 2015	Mar 2016	3	100,000.00	Y		
1.37) TR-281 FIRST ARTICLE		2015	SyQwest / Warwick, RI	Various	NUWC	Mar 2015	Mar 2016	3	100,000.00	Y		
1.38) DT-513 Hydrophone		2012	ULTRA / Braintree, MA	C / FP	NUWC	Mar 2012	Mar 2013	127	4,000.00	Y		
1.38) DT-513 Hydrophone		2013	SyQwest / Warwick, RI	C / FP	NUWC	Sep 2013	Sep 2014	104	4,067.31	Y		
1.38) DT-513 Hydrophone		2014	SyQwest / Warwick, RI	C / FP	NUWC	Mar 2014	Mar 2015	110	4,133.09	Y		
1.38) DT-513 Hydrophone		2015	SyQwest / Warwick, RI	C / FP	NUWC	Mar 2015	Mar 2016	120	4,203.35	Y		
1.38) DT-513 Hydrophone		2016	Unknown / TBD	TBD	NUWC	Mar 2016	Mar 2017	82	4,287.42	Y		
1.39) DT-574 50FT FIRST ARTICLE		2014	NUWC Newport / RI	Various	NUWC	Mar 2014	Mar 2015	6	35,000.00	Y		
1.40) DT-574 100FT FIRST ARTICLE		2014	NUWC Newport / RI	Various	NUWC	Mar 2014	Mar 2015	6	35,000.00	Y		
1.41) DT-100 HFSA RECEIVE		2014	TRF / Portsmouth, MA	C / FP	NUWC	Mar 2014	Mar 2015	3	75,000.00	Y		
1.41) DT-100 HFSA RECEIVE		2015	TRF / Portsmouth, MA	C / FP	NUWC	Mar 2015	Mar 2016	3	75,000.00	Y		
1.41) DT-100 HFSA RECEIVE		2016	Unknown / TBD	TBD	NUWC	Mar 2016	Mar 2017	3	76,500.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars							P-1 Line Item Number / Title: 2188 / Electronic Warfare MILDEC					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	16.841	8.958	-	-	-	-	-	-	-	-	-	25.799
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	16.841	8.958	-	-	-	-	-	-	-	-	-	25.799
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	16.841	8.958	-	-	-	-	-	-	-	-	-	25.799
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: [P5 /]: 1U060: Integrated Communications and Data System (ICADS) (AN/URC-148(V)) is a Chief of Naval Operations (CNO) directed mission critical system which provides a limited back-up, mobile communications capability. ICADS is a system of systems capability which re-establishes command and control for high value unit, subordinate units, and controlling fleet entities. ICADS was a Rapid Deployment Capability (RDC) designated by Assistant Secretary of the Navy (Research, Development and Acquisitions). Specific program details and capabilities held at a higher classification. [P5 /]: ICADS (AN/URC-148(V1)) is critical need requirement outlined by Operational Fleet Commanders as a supplemental capability to the existing delivered AN/URC-148(V) systems. (V1) is a limited capability variant design providing limited transmit capability in the same carry-on type manner based on the AN/UST-1 design. Specific program details and capabilities held at a higher classification.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 2: Ship Sonars				P-1 Line Item Number / Title: 2188 / Electronic Warfare MILDEC			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO
Title*	Exhibits	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)
1 / Electronic Warfare MILDEC	P-5, P-5a, P-21		- / 16.841	- / 8.958	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 16.841	- / 8.958	- / -	- / -	- / -
*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 add due to rounding.							

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2						P-1 Line Item Number / Title: 2188 / Electronic Warfare MILDEC						Item Number / Title [DODIC]: 1 / Electronic Warfare MILDEC						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				16.841		8.958		-		-		-		-				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				16.841		8.958		-		-		-		-				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				16.841		8.958		-		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway - Electronic Warfare MILDEC - 1U060 ICADS Cost																		
Non Recurring Cost																		
1.1.1) ICADS	14,005.000	1	14.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) ICADS Engineering Change Proposals (ECPs) ^(†)	520.000	4	2.080	385.000	1	0.385	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	16.085	-	-	0.385	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - Electronic Warfare MILDEC - 1U060 ICADS Cost	-	-	16.085	-	-	0.385	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway - Electronic Warfare MILDEC - 1U061 ICADS Variant Cost																		
Non Recurring Cost																		
2.1.1) Variant ^(†)	-	-	-	3,547.500	2	7.095	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	7.095	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - Electronic Warfare MILDEC - 1U061 ICADS Variant Cost	-	-	-	-	-	7.095	-	-	-	-	-	-	-	-	-	-	-	-
Support - 1U555 Production Support Cost																		
3.1) Production Support	-	-	0.756	-	-	1.478	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - 1U555 Production Support Cost	-	-	0.756	-	-	1.478	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	16.841	-	-	8.958	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2	P-1 Line Item Number / Title: 2188 / Electronic Warfare MILDEC	Item Number / Title [DODIC]: 1 / Electronic Warfare MILDEC
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy							Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2				P-1 Line Item Number / Title: 2188 / Electronic Warfare MILDEC				Item Number / Title [DODIC]: 1 / Electronic Warfare MILDEC			

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.2) ICADS Engineering Change Proposals (ECPs) ^(†)		2014 (1)	SSC LANT / Charleston, SC	C / FFP	SSC LANT	Jun 2014	Oct 2014	1	385.000	Y		Feb 2014
2.1.1) Variant ^(†)		2014 (2)	Argon ST / Arlington, VA	C / FFP	SPAWAR	Jul 2014	Jan 2016	2	3,547.500	N		Feb 2014

^(†) indicates the presence of a P-21

Footnotes:

⁽¹⁾ ICADS is comprised of several mature systems. Various subsystems are integrated to deliver ICADS system.

⁽²⁾ ICADS variant is a limited capability derived from existing system.

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015												
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2											P-1 Line Item Number / Title: 2188 / Electronic Warfare MILDEC											Item Number / Title [DODIC]: 1 / Electronic Warfare MILDEC													
Cost Elements (Units in Each)						Fiscal Year 2014														Fiscal Year 2015															
						Calendar Year 2014														Calendar Year 2015															
O C O	M F R #	FY	SERVICE	PROC QTY	ACCE PT PRI OR 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				
1.1.2) ICADS Engineering Change Proposals (ECPs)																																			
Prior Years Deliveries: 4																																			
1	2014	NAVY		1	-	1										A	-	-	-	-	1											-			
2.1.1) Variant																																			
2	2014	NAVY		2	-	2										A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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	B A L				

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2											P-1 Line Item Number / Title: 2188 / Electronic Warfare MILDEC												Item Number / Title [DODIC]: 1 / Electronic Warfare MILDEC											
Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017																
						Calendar Year 2016												Calendar Year 2017																
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCE PT PRI OR 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			
1.1.2) ICADS Engineering Change Proposals (ECPs)																																		
Prior Years Deliveries: 4																																		
1	2014	NAVY		1	1	-																												-
2.1.1) Variant																																		
2	2014	NAVY		2	-	2	-	-	-	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	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 2					P-1 Line Item Number / Title: 2188 / Electronic Warfare MILDEC				Item Number / Title [DODIC]: 1 / Electronic Warfare MILDEC			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	SSC LANT - Charleston, SC	1	5	10	-	7	4	11	-	-	-	-
2	Argon ST - Arlington, VA	1	7	9	-	8	18	26	-	-	-	-
"A" in the Delivery Schedule indicates the Contract Award Date. Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment							P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	58.935	20.937	22.721	21.119	-	21.119	21.397	20.499	21.980	23.774	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	58.935	20.937	22.721	21.119	-	21.119	21.397	20.499	21.980	23.774	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	58.935	20.937	22.721	21.119	-	21.119	21.397	20.499	21.980	23.774	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.283	0.360	0.401	-	0.401	0.392	0.543	0.658	0.708	Continuing	Continuing
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Submarine Acoustic Warfare System (SAWS) program provides submarines with expendable defensive countermeasures and the capability to launch them against torpedoes. The countermeasures also reduce the effectiveness of enemy acoustic sensors. This program provides ongoing production of countermeasure devices needed to sustain fleet inventories, production of improvements to enhance the readiness and effectiveness of countermeasure devices, and associated outboard countermeasure launcher systems on all U.S. submarines. WM018 - ACOUSTIC AUGMENTATION SUPPORT PROGRAM (AASP) procures acoustic augmenting devices in appropriate configurations for all submarine platforms, currently installed as temporary equipment. SHIPALT is developed and will start installations in FY16. Reliability and refurbishment upgrades sustain current in-service AASP systems with new components and software updates improving reliability. WM019 - Countermeasure Set Acoustic (CSA) supports and procures engineering changes in support of SAWS including the Countermeasures Set Acoustic (CSA) system, Torpedo Defense Console (TDC), and Launch Control Panels (LCPs). CSA support system assets correct obsolescence, including engineering changes necessary to accommodate modified devices and new devices, such as the ADC MK5. Four efforts are underway. Technical refresh is in the 3rd year to design, build, test and certify replacement components for obsolete CSA MK2 Mod 4 on 688i ships and CSA MK2 Mod 0/1 on SSBNs. Upgrades will occur in FY16-FY21. A second effort, "Technical Insertion," is to federate CSA into SWFTS (Submarine Warfare Federated Tactical Systems) to facilitate the ADC MK5 upon introduction. The third effort will convert CSA MK2 Mod 2 to CSA MK 4 to accommodate the introduction of ADC MK 5 to Virginia Class Block 1 and 2 Ships (10). Non recurring engineering will complete in FY17, with installs starting in FY18. The fourth effort supports engineering issues across all systems as they arise. [P40A / WM014 6 INCH]: WM014 6" Diameter Countermeasures - Procures the 6" Countermeasure Launch Tube and associated 6" device: Acoustic Device Countermeasure (ADC) MK3 (Torpedo), ADC MK4 (Sound Navigation and Ranging (SONAR), Engineering Change Proposals (ECPs) to correct and improve the devices, and configuration control to maintain fleet inventory levels to meet Naval Munition Requirements Process (NMRP). A Service Life Extension Program (SLEP) is in place starting in FY14 for ADC MK3 and MK4. [P40A / WM015 3 INCH]: WM015 3" Diameter Countermeasures - Procures the 3" device Noise Acoustic Emitter (NAE) BEACON and ADC MK2 MOD 5 and provides for Engineering Change Proposals (ECPs) and configuration control to correct and improve the devices. The Next Generation Countermeasure Program will transition the ADC MK5 into production beyond the FYDP, nominally starting in FY22. [P40A / WM022 GAS GENERATOR MK77]: WM022 Gas Generator (GG) MK 77 - Procures the propulsion components required to launch the ADC MK3 and ADC MK4 Countermeasure devices from the External Countermeasure Launchers (ECLs) on the later classes of submarines (688i or newer). The fleet introduction of the MK77 Mod 1 will complete in FY15.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment		P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
[P40A / WM830 PRODUCTION ENGINEERING]: WM830 Production Engineering - Procures production engineering services for SAWS Technical Design Agent (TDA) and In-Service Engineering Agent (ISEA) across all SAWS systems.		
[P40A / WM900 CONSULTING SERVICES]: WM900 Consulting Services - Procures contractor consulting and professional support services for SAWS.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment				P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO
Title*	Exhibits	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)
Submarine Acoustic Warfare System	P-40a, P-5a, P-21		- / 51.300	- / 13.621	- / 14.819	- / 12.401	- / -
1 / AASP WM018 ()	P-3a		- / 1.638	- / 1.380	- / 1.230	- / 1.729	- / -
2 / CSA WM019 ()	P-3a		- / 5.997	- / 5.936	- / 6.673	- / 6.990	- / -
Total Gross/Weapon System Cost			- / 58.935	- / 20.937	- / 22.721	- / 21.119	- / 21.119
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete
Title*	Exhibits	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)
Submarine Acoustic Warfare System	P-40a, P-5a, P-21		- / -	- / -	- / -	- / -	- / -
1 / AASP WM018 ()	P-3a		- / 2.348	- / 1.795	- / 2.442	- / 1.894	- / 5.460
2 / CSA WM019 ()	P-3a		- / 10.469	- / 10.891	- / 4.218	- / 4.350	Continuing
Total Gross/Weapon System Cost			- / 21.397	- / 20.499	- / 21.980	- / 23.774	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 add due to rounding.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3								P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System							Aggregated Items Title: Submarine Acoustic Warfare System				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) WM014 6 INCH																				
1.1) 6" Countermeasure Launch Tube ^{(1)(†)}	A		29,601.35	444	13.143	11,560.00	75	0.867	-	-	-	5,000.00	200	1.000	-	-	-	5,000.00	200	1.000
1.2) ADC MK3 (TORPEDO) ^{(2)(†)}	A		30,687.80	410	12.582	33,200.00	70	2.324	45,576.76	76	3.464	12,000.00	150	1.800	-	-	-	12,000.00	150	1.800
1.3) ADC MK4 (SONAR) ^{(3)(†)}	A		-	-	-	-	-	-	52,932.89	21	1.112	12,000.00	50	0.600	-	-	-	12,000.00	50	0.600
Subtotal: 1) WM014 6 INCH			-	-	25.725	-	-	3.191	-	-	4.576	-	-	3.400	-	-	-	-	-	3.400
2) WM015 3 INCH																				
2.1) NAE BEACON ^{(4)(†)}	A		7,498.83	429	3.217	6,604.48	670	4.425	6,729.97	700	4.711	4,900.00	800	3.920	-	-	-	4,900.00	800	3.920
2.2) ADC MK2 MOD3/5 ^{(5)(†)}	A		5,450.09	1,162	6.333	5,664.29	280	1.586	-	-	-	6,000.00	100	0.600	-	-	-	6,000.00	100	0.600
Subtotal: 2) WM015 3 INCH			-	-	9.550	-	-	6.011	-	-	4.711	-	-	4.520	-	-	-	-	-	4.520
3) WM022 GAS GENERATOR MK77																				
3.1) GAS GENERATOR MK77 ^(†)	A		10,195.21	1,086	11.072	10,508.00	250	2.627	10,707.65	350	3.748	10,911.67	300	3.274	-	-	-	10,911.67	300	3.274
Subtotal: 3) WM022 GAS GENERATOR MK77			-	-	11.072	-	-	2.627	-	-	3.748	-	-	3.274	-	-	-	-	-	3.274
4) WM830 PRODUCTION ENGINEERING																				
4.1) PRODUCTION ENGINEERING	A		-	-	4.273	-	-	1.481	-	-	1.328	-	-	0.858	-	-	-	-	-	0.858
Subtotal: 4) WM830 PRODUCTION ENGINEERING			-	-	4.273	-	-	1.481	-	-	1.328	-	-	0.858	-	-	-	-	-	0.858
5) WM900 CONSULTING SERVICES																				
5.1) CONSULTING SERVICES	A		-	-	0.680	-	-	0.311	-	-	0.456	-	-	0.349	-	-	-	-	-	0.349
Subtotal: 5) WM900 CONSULTING SERVICES			-	-	0.680	-	-	0.311	-	-	0.456	-	-	0.349	-	-	-	-	-	0.349
Total			-	-	51.300	-	-	13.621	-	-	14.819	-	-	12.401	-	-	-	-	-	12.401

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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) WM014 6 INCH																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3						P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System									Aggregated Items Title: Submarine Acoustic Warfare System					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1.1) 6" Countermeasure Launch Tube ^{(1)(†)}	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) ADC MK3 (TORPEDO) ^{(2)(†)}	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) ADC MK4 (SONAR) ^{(3)(†)}	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) WM014 6 INCH			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) WM015 3 INCH																				
2.1) NAE BEACON ^{(4)(†)}	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) ADC MK2 MOD3/5 ^{(5)(†)}	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) WM015 3 INCH			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) WM022 GAS GENERATOR MK77																				
3.1) GAS GENERATOR MK77 ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) WM022 GAS GENERATOR MK77			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) WM830 PRODUCTION ENGINEERING																				
4.1) PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) WM830 PRODUCTION ENGINEERING			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) WM900 CONSULTING SERVICES																				
5.1) CONSULTING SERVICES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 5) WM900 CONSULTING SERVICES			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System	Aggregated Items Title: Submarine Acoustic Warfare System

(†) indicates the presence of a P-5a

Footnotes:

- (1) Rework of launch tubes included in SLEP for ADC MK3 and MK4, and based on SLEP unit cost estimate.
- (2) Assumes SLEP for ADC MK3 and MK4 at 150/50 per year, excluding rework of launch tubes. Assumes new contract for ADC MK 3/4 with launch tubes in FY19.
- (3) Assumes SLEP for ADC MK3 and MK4 at 150/50 per year, excluding rework of launch tubes. Assumes new contract for ADC MK 3/4 with launch tubes in FY19.
- (4) NAE Beacon contract awarded in May 2014 changed unit cost and that unit cost was used in FY16.
- (5) Reduced quantity in view of inventory level sufficiency. Assumes new contract in FY20.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3			P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System					Aggregated Items: Submarine Acoustic Warfare System				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) WM014 6 INCH												
1.1) 6" Countermeasure Launch Tube ^{(1)(†)}		2011	DYNAMIC FLOWFORM / MASSACHUSETTS	C / FFP	NUWCKEYPORT	Aug 2011	Aug 2012	275	11,003.64	Y		
1.1) 6" Countermeasure Launch Tube ^{(1)(†)}		2012	DYNAMIC FLOWFORM / MASSACHUSETTS	C / FFP	NUWCKEYPORT	Aug 2012	Aug 2013	169	11,035.50	Y		
1.1) 6" Countermeasure Launch Tube ^{(1)(†)}		2014	DYNAMIC FLOWFORM / MASSACHUSETTS	C / FFP	NUWCKEYPORT	Aug 2014	Aug 2015	75	11,560.00	Y		
1.1) 6" Countermeasure Launch Tube ^{(1)(†)}		2016	DYNAMIC FLOWFORM / MASSACHUSETTS	C / FFP	NUWCKEYPORT	Aug 2016	Feb 2017	200	5,000.00	Y		
1.2) ADC MK3 (TORPEDO) ^{(2)(†)}		2011	ULTRA / BRAINTREE, MA	C / FFP	NAVSEA	Jun 2011	Jun 2013	125	31,600.00	Y		
1.2) ADC MK3 (TORPEDO) ^{(2)(†)}		2012	ULTRA / BRAINTREE, MA	C / FFP	NAVSEA	Aug 2012	Aug 2014	160	27,075.00	Y		
1.2) ADC MK3 (TORPEDO) ^{(2)(†)}		2013	ULTRA / BRAINTREE, MA	C / FFP	NAVSEA	Jun 2013	Jun 2015	125	34,400.00	Y		
1.2) ADC MK3 (TORPEDO) ^{(2)(†)}		2014	ULTRA / BRAINTREE, MA	C / FFP	NAVSEA	Dec 2013	Dec 2015	70	33,200.00	Y		
1.2) ADC MK3 (TORPEDO) ^{(2)(†)}		2015	ULTRA / BRAINTREE, MA	C / FFP	NAVSEA	Dec 2014	Dec 2016	76	45,576.76	Y		
1.2) ADC MK3 (TORPEDO) ^{(2)(†)}		2016	ULTRA / BRAINTREE, MA	C / FFP	NAVSEA	Dec 2015	Dec 2016	150	12,000.00	Y		
1.3) ADC MK4 (SONAR) ^{(3)(†)}		2015	TBD / TBD	C / TBD	NUWC/KEYPORT	Sep 2015	Aug 2016	21	52,932.89	Y		
1.3) ADC MK4 (SONAR) ^{(3)(†)}		2016	TBD / TBD	C / TBD	NUWC/KEYPORT	Nov 2015	Oct 2016	50	12,000.00	Y		
2) WM015 3 INCH												
2.1) NAE BEACON ^{(4)(†)}		2011	ULTRA / BRAINTREE, MA	C / FFP	NAVICP	Aug 2011	Jul 2013	429	7,498.83	Y		
2.1) NAE BEACON ^{(4)(†)}		2014	ULTRA / BRAINTREE, MA	SS / IDIQ	NAVICP	May 2014	Apr 2016	670	6,604.48	Y		
2.1) NAE BEACON ^{(4)(†)}		2015	ULTRA / BRAINTREE, MA	SS / IDIQ	NAVICP	Aug 2015	Jul 2017	700	6,729.97	Y		
2.1) NAE BEACON ^{(4)(†)}		2016	ULTRA / BRAINTREE, MA	SS / IDIQ	NAVICP	May 2016	Apr 2017	800	4,900.00	Y		
2.2) ADC MK2 MOD3/5 ^{(5)(†)}		2011	ULTRA / BRAINTREE, MA	C / FFP	NAVSEA	May 2011	May 2013	354	5,389.83	Y		
2.2) ADC MK2 MOD3/5 ^{(5)(†)}		2012	ULTRA / BRAINTREE, MA	C / FFP	NAVSEA	May 2012	May 2014	808	5,476.49	Y		
2.2) ADC MK2 MOD3/5 ^{(5)(†)}		2014	ULTRA / BRAINTREE, MA	C / FFP	NUWC/KEYPORT	May 2014	May 2016	280	5,664.29	Y		
2.2) ADC MK2 MOD3/5 ^{(5)(†)}		2016	TBD / @TBD	C / FFP	NUWC/KEYPORT	May 2016	May 2017	100	6,000.00	Y		
3) WM022 GAS GENERATOR MK77												
3.1) GAS GENERATOR MK77 ^(†)		2011	NSWC/INDIAN HEAD / NSWC INDIAN HEAD	WR	NSWC INDIAN HEAD	Mar 2011	Mar 2012	243	10,000.00	Y		
3.1) GAS GENERATOR MK77 ^(†)		2012	NSWC/INDIAN HEAD / NSWC INDIAN HEAD	WR	NSWC INDIAN HEAD	Mar 2012	Mar 2013	400	10,160.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System				Aggregated Items: Submarine Acoustic Warfare System				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1) GAS GENERATOR MK77 ^(†)		2013	NSWC/INDIAN HEAD / NSWC INDIAN HEAD	WR	NSWC INDIAN HEAD	Mar 2013	Mar 2014	443	10,334.09	Y		
3.1) GAS GENERATOR MK77 ^(†)		2014	NSWC/INDIAN HEAD / NSWC INDIAN HEAD	WR	NSWC INDIAN HEAD	Mar 2014	Mar 2015	250	10,508.00	Y		
3.1) GAS GENERATOR MK77 ^(†)		2015	NSWC/INDIAN HEAD / NSWC INDIAN HEAD	WR	NSWC INDIAN HEAD	Mar 2015	Mar 2016	350	10,707.65	Y		
3.1) GAS GENERATOR MK77 ^(†)		2016	NSWC/INDIAN HEAD / NSWC INDIAN HEAD	WR	NSWC INDIAN HEAD	Mar 2016	Sep 2016	300	10,911.67	Y		

^(†) indicates the presence of a P-21

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015																
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3										P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System										Aggregated Items: Submarine Acoustic Warfare System																
Items (Units in Each)							Fiscal Year 2011										Fiscal Year 2012																			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2010	BAL DUE AS OF 1 OCT	Calendar Year 2011																			Calendar Year 2012										B A L
							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) WM014 6 INCH																																				
1.1) 6" Countermeasure Launch Tube ⁽¹⁾																																				
	1	2011	NAVY	275	-	275											A -	-	-	-	-	-	-	-	-	-	-	-	-	20	20	235				
	1	2012	NAVY	169	-	169																								A -	-	169				
	1	2014	NAVY	75	-	75																										75				
	1	2016	NAVY	200	-	200																										200				
1.2) ADC MK3 (TORPEDO) ⁽²⁾																																				
	2	2011	NAVY	125	-	125											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125				
	2	2012	NAVY	160	-	160																								A -	-	160				
	2	2013	NAVY	125	-	125																										125				
	2	2014	NAVY	70	-	70																										70				
	2	2015	NAVY	76	-	76																										76				
	2	2016	NAVY	150	-	150																										150				
1.3) ADC MK4 (SONAR) ⁽³⁾																																				
	3	2015	NAVY	21	-	21																										21				
	3	2016	NAVY	50	-	50																										50				
2) WM015 3 INCH																																				
2.1) NAE BEACON ⁽⁴⁾																																				
	4	2011	NAVY	429	-	429											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	429				
	4	2014	NAVY	670	-	670																										670				
	4	2015	NAVY	700	-	700																										700				
	4	2016	NAVY	800	-	800																										800				
2.2) ADC MK2 MOD3/5 ⁽⁵⁾																																				
	6	2016	NAVY	100	-	100																										100				
	5	2011	NAVY	354	-	354								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	354					
	5	2012	NAVY	808	-	808																								A -	-	808				
	5	2014	NAVY	280	-	280																										280				
3) WM022 GAS GENERATOR MK77																																				
3.1) GAS GENERATOR MK77																																				
	7	2011	NAVY	243	-	243							A -	-	-	-	-	-	-	-	-	-	-	-	-	17	20	20	20	20	20	106				
	7	2012	NAVY	400	-	400																				A -	-	-	-	-	-	400				
	7	2013	NAVY	443	-	443																										443				
							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					

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Navy																			Date: February 2015															
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3							P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System												Aggregated Items: Submarine Acoustic Warfare System															
Items (Units in Each)							Fiscal Year 2011												Fiscal Year 2012															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2010	BAL DUE AS OF 1 OCT	Calendar Year 2011												Calendar Year 2012												B A L			
							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				
	7	2014	NAVY	250	-	250																									250			
	7	2015	NAVY	350	-	350																									350			
	7	2016	NAVY	300	-	300																									300			
							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			

UNCLASSIFIED

LI 2210 - Submarine Acoustic Warfare System
Navy

UNCLASSIFIED
Page 11 of 27

P-1 Line #44

Volume 2 - 119

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Navy																			Date: February 2015															
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3							P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System												Aggregated Items: Submarine Acoustic Warfare System															
Items (Units in Each)							Fiscal Year 2013												Fiscal Year 2014															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												B A L			
							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				
	7	2014	NAVY	250	-	250																		A -	-	-	-	-	-	-	250			
	7	2015	NAVY	350	-	350																								350				
	7	2016	NAVY	300	-	300																								300				
							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			

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015														
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3										P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System										Aggregated Items: Submarine Acoustic Warfare System														
Items (Units in Each)							Fiscal Year 2015										Fiscal Year 2016																	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 4	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016										B A L							
							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) WM014 6 INCH																																		
1.1) 6" Countermeasure Launch Tube ⁽¹⁾																																		
	1	2011	NAVY	275	275	-																											-	
	1	2012	NAVY	169	169	-																											-	
	1	2014	NAVY	75	-	75	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	7	7	7			-			
	1	2016	NAVY	200	-	200																							A -	-	200			
1.2) ADC MK3 (TORPEDO) ⁽²⁾																																		
	2	2011	NAVY	125	125	-																											-	
	2	2012	NAVY	160	28	132	14	14	13	13	13	13	13	13	13	13																		-
	2	2013	NAVY	125	-	125	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	11	11	11	11	11						-		
	2	2014	NAVY	70	-	70	-	-		-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	10			
	2	2015	NAVY	76	-	76			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76			
	2	2016	NAVY	150	-	150													A -	-	-	-	-	-	-	-	-	-	-	-	150			
1.3) ADC MK4 (SONAR) ⁽³⁾																																		
	3	2015	NAVY	21	-	21											A -	-	-	-	-	-	-	-	-	-	-	-	-	5	5	11		
	3	2016	NAVY	50	-	50													A -	-	-	-	-	-	-	-	-	-	-	-	50			
2) WM015 3 INCH																																		
2.1) NAE BEACON ⁽⁴⁾																																		
	4	2011	NAVY	429	429	-																											-	
	4	2014	NAVY	670	-	670	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	56	56	56	56	56	56	334			
	4	2015	NAVY	700	-	700										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700			
	4	2016	NAVY	800	-	800																			A -	-	-	-	-	-	800			
2.2) ADC MK2 MOD3/5 ⁽⁵⁾																																		
	6	2016	NAVY	100	-	100																					A -	-	-	-	-	100		
	5	2011	NAVY	354	354	-																											-	
	5	2012	NAVY	808	335	473	67	67	67	67	67	67	71																				-	
	5	2014	NAVY	280	-	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	23	23	23	23	165			
3) WM022 GAS GENERATOR MK77																																		
3.1) GAS GENERATOR MK77																																		
	7	2011	NAVY	243	243	-																											-	
	7	2012	NAVY	400	400	-																											-	
	7	2013	NAVY	443	258	185	37	37	37	37	37																						-	
							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			

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7	2014	NAVY	250	-	250	-	-	-	-	-	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21

UNCLASSIFIED

LI 2210 - Submarine Acoustic Warfare System
Navy

UNCLASSIFIED
Page 15 of 27

P-1 Line #44

Volume 2 - 123

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Navy																			Date: February 2015												
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3							P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System												Aggregated Items: Submarine Acoustic Warfare System												
Items <i>(Units in Each)</i>							Fiscal Year 2017										Fiscal Year 2018														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017										Calendar Year 2018										B A L				
							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
	7	2014	NAVY	250	250	-																				-					
	7	2015	NAVY	350	260	90	38	38	14																	-					
	7	2016	NAVY	300	30	270	30	30	30	30	30	20	20	20	20	20	20										-				
							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

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3					P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System				Aggregated Items: Submarine Acoustic Warfare System			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	DYNAMIC FLOWFORM - MASSACHUSETTS	120	360	720	-	-	-	-	-	10	6	16
2	ULTRA - BRAINTREE, MA	192	288	576	-	-	-	-	7	2	12	14
3	TBD - TBD	192	288	576	8	2	11	13	8	2	11	13
4	ULTRA - BRAINTREE, MA	840	1,440	2,880	-	-	-	-	5	3	11	14
5	ULTRA - BRAINTREE, MA	840	1,440	2,880	-	1	-	1	-	1	12	13
6	TBD - @TBD	-	-	-	-	1	-	1	-	1	12	13
7	NSWC/INDIAN HEAD - NSWC INDIAN HEAD	48	480	960	-	-	-	-	6	5	6	11

"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 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System					Modification Number / Title: 1 / AASP WM018			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1.638	1.380	1.230	1.729	-	1.729	2.348	1.795	2.442	1.894	5.460	19.916
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	1.638	1.380	1.230	1.729	-	1.729	2.348	1.795	2.442	1.894	5.460	19.916
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1.638	1.380	1.230	1.729	-	1.729	2.348	1.795	2.442	1.894	5.460	19.916
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: WM018 ACOUSTIC AUGMENTATION SUPPORT PROGRAM (AASP) procures acoustic augmenting devices in appropriate configurations for all submarine platforms, currently installed as temporary equipment. SHIPALT is developed and will start installations in FY16. Reliability and refurbishment upgrades sustain current in-service AASP systems with new components and software updates improving reliability. [WM018 AASP Support] Includes production support for SHIPALT 4678 and the AASP reliability/refurbishment upgrade. [WM018 AASP (Acoustic Augmentation Support Program)] AASP includes costs of procuring new systems and components including the HLF-1 for SHIPALT installation such that "unit cost" is a mix of systems and components. A new HLF-1 transducer is procured in FY17 (\$587K) and FY19 (\$610K). [WM018 AASP Reliability and Refurbishment Upgrade] Reliability and Refurbishment Upgrade to sustain current in-service AASP systems. [WM018 AASP (Acoustic Augmentation Support Program)] Non-recurring costs to produce AASP SHIPALT Package.												

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System				Modification Number / Title: 1 / AASP WM018				
Models of Systems Affected:			Modification Type:					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: AASP WM018												
B Kits												
Recurring												
1.1.1) WM018 AASP Support - Organic ⁽⁶⁾	- / -	- / -	- / -	- / 0.165	- / -	- / 0.165	- / 0.170	- / 0.175	- / 0.181	- / 0.213	- / -	- / 0.904
1.1.2) WM018 AASP (Acoustic Augmentation Support Program) - NonOrganic ⁽⁷⁾	- / -	- / -	1 / 0.850	1 / 0.864	- / -	1 / 0.864	1 / 1.466	1 / 0.896	1 / 1.524	1 / 0.932	3 / 2.864	9 / 9.396
1.1.3) WM018 AASP Reliability and Refurbishment Upgrade - NonOrganic	- / -	- / -	1 / 0.098	1 / 0.100	- / -	1 / 0.100	1 / 0.100	1 / 0.100	1 / 0.100	1 / 0.100	3 / 0.300	9 / 0.898
Subtotal: Recurring	- / 0.000	- / -	- / 0.948	- / 1.129	- / -	- / 1.129	- / 1.736	- / 1.171	- / 1.805	- / 1.245	- / 3.164	- / 11.198
Non-Recurring												
1.2.1) WM018 AASP (Acoustic Augmentation Support Program) - Organic	- / 1.638	- / 1.380	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.018
Subtotal: Non-Recurring	- / 1.638	- / 1.380	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.018
Subtotal: AASP WM018	- / 1.638	- / 1.380	2 / 0.948	2 / 1.129	- / -	2 / 1.129	2 / 1.736	2 / 1.171	2 / 1.805	2 / 1.245	6 / 3.164	18 / 14.216
Subtotal: Procurement, All Modification Items	- / 1.638	- / 1.380	- / 0.948	- / 1.129	- / -	- / 1.129	- / 1.736	- / 1.171	- / 1.805	- / 1.245	- / 3.164	- / 14.216
Installation												
Modification Item 1 of 1: AASP WM018	- / 0.000	- / -	- / 0.282	- / 0.600	- / -	- / 0.600	- / 0.612	- / 0.624	- / 0.637	- / 0.649	- / 2.296	- / 5.700
Subtotal: Installation	- / 0.000	- / -	- / 0.282	- / 0.600	- / -	- / 0.600	- / 0.612	- / 0.624	- / 0.637	- / 0.649	- / 2.296	- / 5.700
Total												
Total Cost (Procurement + Support + Installation)	1.638	1.380	1.230	1.729	-	1.729	2.348	1.795	2.442	1.894	5.460	19.916

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System			Modification Number / Title: 1 / AASP WM018

Modification Item 1 of 1: AASP WM018

Manufacturer Information

Manufacturer Name: HydroAcoustics, Inc	Manufacturer Location: Henritta, NY
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 8

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020
Delivery Dates		Sep 2015	Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020

Installation Information

Method of Implementation: AIT:: Installation Name: WM018 AASP (Acoustic Augmentation Support Program)

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	1 / 0.300	- / -	1 / 0.300	- / -	- / -	- / -	- / -	- / -	1 / 0.300
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.306	- / -	- / -	- / -	- / -	1 / 0.306
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.312	- / -	- / -	- / -	1 / 0.312
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.319	- / -	- / -	1 / 0.319
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.325	- / -	1 / 0.325
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.331	1 / 0.331
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.993	3 / 0.993
Total	- / -	- / -	- / -	1 / 0.300	- / -	1 / 0.300	1 / 0.306	1 / 0.312	1 / 0.319	1 / 0.325	4 / 1.324	9 / 2.886

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	4	9
Out	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	4	9

Method of Implementation: AIT:: Installation Name: WM018 AASP Reliability and Refurbishment Upgrade

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3					P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System					Modification Number / Title: 1 / AASP WM018			

Modification Item 1 of 1: AASP WM018

Installation Information

Method of Implementation: AIT:: Installation Name: WM018 AASP Reliability and Refurbishment Upgrade

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	1 / 0.282	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.282
FY 2016	- / -	- / -	- / -	1 / 0.300	- / -	1 / 0.300	- / -	- / -	- / -	- / -	- / -	1 / 0.300
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.306	- / -	- / -	- / -	- / -	1 / 0.306
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.312	- / -	- / -	- / -	1 / 0.312
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.318	- / -	- / -	1 / 0.318
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.324	- / -	1 / 0.324
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.972	3 / 0.972
Total	- / -	- / -	1 / 0.282	1 / 0.300	- / -	1 / 0.300	1 / 0.306	1 / 0.312	1 / 0.318	1 / 0.324	3 / 0.972	9 / 2.814

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	3	9
Out	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	3	9

Footnotes:

⁽⁶⁾ Includes production support for SHIPALT 4678.

⁽⁷⁾ A new HLF-1 transducer is procured in FY17 (\$587K) and FY19 (\$610K) which increases the unit cost per system.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System					Modification Number / Title: 2 / CSA WM019			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	5.997	5.936	6.673	6.990	-	6.990	10.469	10.891	4.218	4.350	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	5.997	5.936	6.673	6.990	-	6.990	10.469	10.891	4.218	4.350	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	5.997	5.936	6.673	6.990	-	6.990	10.469	10.891	4.218	4.350	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: WM019 - Countermeasure Set Acoustic (CSA) supports and procures engineering changes in support of SAWS. Four efforts are underway. Technical refresh is in the 3rd year to design, build, test and certify replacement components for obsolete CSA MK2 Mod 4 on 688i ships and CSA MK2 Mod 0/1 on SSBNs. Upgrades will occur in FY16-FY21. A second effort, "Technical Insertion," is to federate CSA into SWFTS (Submarine Warfare Federated Tactical Systems) to facilitate the ADC MK5 upon introduction. The third effort will convert CSA MK2 Mod 2 to CSA MK 4 to accommodate the introduction of ADC MK 5 to Virginia Class Block 1 and 2 Ships (10). Non recurring engineering will complete in FY17, with installs starting in FY18. The fourth effort supports engineering issues across all systems as they arise. [WM019 CSA MK3 Engineering Changes (LAN, SWFTS, TDA)] Supports and procures engineering changes in support of SAWS including the Countermeasures Set Acoustic (CSA) system, Torpedo Defense Console (TDC), and Launch Control Panels (LCPs). CSA support system assets to correct obsolescence, including engineering changes necessary to accommodate modified devices and new devices, such as the ADC MK5. [WM019 ECPs CSA MK2 MOD 2 Conversion to MK 4] Procures engineering changes and software upgrades in support of SAWS including Countermeasures Set Acoustic (CSA) system Torpedo Defense Console (TDC), Launch Control Panels (LCPs), CSA support system assets corrects obsolescence, including engineering changes necessary to accommodate modified devices and new devices, such as the ADC MK5. [WM019 CSA MK2 MOD 0 OBSOLESCENCE] Technical refresh designs, builds, tests and certifies replacement components for obsolete CSA MK2 Mod 4 on 688i ships. Upgrades will occur in FY16-FY20. [WM019 CSAMK2 MOD2 CONVERSION to CSA MK4] Converts CSA MK2 Mod 2 to CSA MK 4 to accommodate introduction of ADC MK 5 to Virginia Class Block 1 and 2 Ships (10). Proofing will complete in FY17, with changeover starting in FY18. [WM019 CSAMK3 Kits and Systems] Procures engineering change kits and systems in support of SAWS including Countermeasures Set Acoustic (CSA) system Torpedo Defense Console (TDC), Launch Control Panels (LCPs), CSA support system assets corrects obsolescence, including engineering changes necessary to accommodate modified devices and new devices, such as the ADC MK5. [WM019 CSA MK2 MOD 2 Conversion to CSA MK4] Nonrecurring costs for the CSA Mk2 MOD 2 Conversion to CSA MK4. [WM019 CSA ISEA] Supports engineering issues across all systems as they arise.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System	Modification Number / Title: 2 / CSA WM019

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System				Modification Number / Title: 2 / CSA WM019					
Models of Systems Affected:			Modification Type:					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: CSA WM019													
B Kits													
Recurring													
1.1.1) WM019 CSA MK3 Engineering Changes (LAN, SWFTS, TDA) - Organic ⁽⁸⁾	- / 2.000	- / 3.131	- / 2.460	- / 1.360	- / -	- / 1.360	- / 0.489	- / 0.486	- / 0.798	- / -	- / -	- / 10.724	
1.1.2) WM019 ECPs CSA MK2 MOD 2 Conversion to MK 4 - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.079	- / 7.029	- / -	- / 0.577	Continuing	Continuing	
1.1.3) WM019 CSA MK2 MOD 0 OBSOLESCENCE - NonOrganic ⁽⁹⁾	- / 0.321	- / 1.094	40 / 1.694	- / 0.400	- / -	- / 0.400	- / 0.650	- / 0.150	- / 0.387	- / 0.570	- / -	40 / 5.266	
1.1.4) WM019 CSAMK2 MOD2 CONVERSION to CSA MK4 - NonOrganic ⁽¹⁰⁾	- / -	- / -	- / -	2 / 1.080	- / -	2 / 1.080	2 / 1.099	2 / 1.120	2 / 1.143	2 / 1.166	- / -	10 / 5.608	
1.1.5) WM019 CSAMK3 Kits and Systems - NonOrganic ⁽¹¹⁾	- / -	- / -	3 / 0.300	2 / 0.200	- / -	2 / 0.200	- / -	2 / 0.200	2 / 0.200	1 / 0.100	5 / 1.850	15 / 2.850	
Subtotal: Recurring	- / 2.321	- / 4.225	- / 4.454	- / 3.040	- / -	- / 3.040	- / 9.317	- / 8.985	- / 2.528	- / 2.413	Continuing	Continuing	
Non-Recurring													
1.2.1) WM019 CSA MK2 MOD 2 Conversion to CSA MK4 - Organic	- / 0.700	- / 1.005	- / 1.492	- / 2.811	- / -	- / 2.811	- / -	- / -	- / -	- / -	- / -	- / 6.008	
Subtotal: Non-Recurring	- / 0.700	- / 1.005	- / 1.492	- / 2.811	- / -	- / 2.811	- / -	- / -	- / -	- / -	- / -	- / 6.008	
Subtotal: CSA WM019	- / 3.021	- / 5.230	43 / 5.946	4 / 5.851	- / -	4 / 5.851	2 / 9.317	4 / 8.985	4 / 2.528	3 / 2.413	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 3.021	- / 5.230	- / 5.946	- / 5.851	- / -	- / 5.851	- / 9.317	- / 8.985	- / 2.528	- / 2.413	Continuing	Continuing	
Support (All Modification Items)													
2.1) WM019 CSA ISEA	- / 2.976	- / 0.706	- / 0.727	- / 0.739	- / -	- / 0.739	- / 0.752	- / 0.766	- / 0.750	- / 0.797	Continuing	Continuing	
Subtotal: Support	- / 2.976	- / 0.706	- / 0.727	- / 0.739	- / -	- / 0.739	- / 0.752	- / 0.766	- / 0.750	- / 0.797	Continuing	Continuing	
Installation													
Modification Item 1 of 1: CSA WM019	- / 0.000	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.400	- / 1.140	- / 0.940	- / 1.140	- / 4.250	- / 8.270	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.400	- / 1.140	- / 0.940	- / 1.140	- / 4.250	- / 8.270	
Total													
Total Cost (Procurement + Support + Installation)	5.997	5.936	6.673	6.990	-	6.990	10.469	10.891	4.218	4.350	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System				Modification Number / Title: 2 / CSA WM019					
Modification Item 1 of 1: CSA WM019													
Manufacturer Information													
Manufacturer Name: CSA MK3 TBD ⁽¹²⁾							Manufacturer Location: TBD						
Administrative Leadtime <i>(in Months)</i> : 6							Production Leadtime <i>(in Months)</i> : 18						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates		Apr 2015	Apr 2016		Apr 2018	Apr 2019	Apr 2020						
Delivery Dates		Oct 2016	Oct 2017		Oct 2019	Oct 2020	Oct 2021						
Manufacturer Name: CSA MK2 Obsolescence NUWC Keyport							Manufacturer Location: Keyport WA						
Administrative Leadtime <i>(in Months)</i> : 4							Production Leadtime <i>(in Months)</i> : 12						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates		Feb 2015											
Delivery Dates		Feb 2016											
Manufacturer Name: CSA MK 2 to MK4 TBD							Manufacturer Location: TBD						
Administrative Leadtime <i>(in Months)</i> : 6							Production Leadtime <i>(in Months)</i> : 18						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates			Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020						
Delivery Dates			Oct 2017	Oct 2018	Oct 2019	Oct 2020	Oct 2021						
Installation Information													
Method of Implementation: AIT:: Installation Name: WM019 CSA MK2 MOD 0 OBSOLESCENCE													
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2015	- / -	- / -	- / -	8 / 0.400	- / -	8 / 0.400	8 / 0.400	8 / 0.400	8 / 0.400	8 / 0.400	- / -	40 / 2.000	
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total	- / -	- / -	- / -	8 / 0.400	- / -	8 / 0.400	8 / 0.400	8 / 0.400	8 / 0.400	8 / 0.400	- / -	40 / 2.000	

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Exhibit P-3a, Individual Modification: PB 2016 Navy															Date: February 2015									
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3										P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System										Modification Number / Title: 2 / CSA WM019				

Modification Item 1 of 1: CSA WM019

Installation Information

Method of Implementation: AIT:: Installation Name: WM019 CSA MK2 MOD 0 OBSOLESCENCE

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	8	-	-	-	8	-	-	-	8	-	-	-	8	-	-	-	8	-	-	-	-	40
Out	-	-	-	-	-	-	-	-	-	-	8	-	-	-	8	-	-	-	8	-	-	-	8	-	-	-	8	-	-	-	-	40

Method of Implementation: AIT:: Installation Name: WM019 CSAMK2 MOD2 CONVERSION to CSA MK4

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.540	- / -	- / -	- / -	2 / 0.540
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.540	- / -	- / -	2 / 0.540
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.540	- / -	2 / 0.540
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.540	2 / 0.540
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.540	2 / 0.540
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.540	2 / 0.540	2 / 0.540	4 / 1.080	10 / 2.700

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-	4	10	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-	2	-	-	4	10	

Method of Implementation: AIT:: Installation Name: WM019 CSAMK3 Kits and Systems

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2210 / Submarine Acoustic Warfare System	Modification Number / Title: 2 / CSA WM019

Modification Item 1 of 1: CSA WM019

Installation Information

Method of Implementation: AIT:: Installation Name: WM019 CSAMK3 Kits and Systems

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.300	3 / 0.300
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.200	- / -	- / -	- / -	2 / 0.200
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.200	- / -	2 / 0.200
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.200	2 / 0.200
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.100	1 / 0.100
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.570	5 / 2.570
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.200	- / -	2 / 0.200	11 / 3.170	15 / 3.570

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	-	-	-	11	15	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	-	-	11	15	

Footnotes:

- (8) Removed modernization of 688i with CSA MK3 as cost cutting measure. Shifted SSN 21 Class CSA MK3 SHIPALT to FY18.
- (9) CSA MK 2 Mod 0 obsolescence engineering completes in FY15, installation of Engineering Change (EC) Kit in FY16-FY20.
- (10) Moved CSA MK4 to "CSA MK2 MOD 2 Conversion to CSA MK4" to better describe the effort.
- (11) Shifted SSN 21 Class CSA MK 3 procurement from FY19 to FY22 with installations in FY24. The 3 systems being procured are whole CSA MK3 systems at \$500K apiece.
- (12) FY15 Procurement combined with VA Class SCN Buy.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment							P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	139.182	-	10.653	8.396	-	8.396	7.856	24.470	31.892	43.995	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	139.182	-	10.653	8.396	-	8.396	7.856	24.470	31.892	43.995	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	139.182	-	10.653	8.396	-	8.396	7.856	24.470	31.892	43.995	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	0.753	-	0.753	0.655	0.623	1.041	1.001	Continuing	Continuing
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
The Surface Ship Torpedo Defense (SSTD) program provides a detect-to-engage layered torpedo defense capability. It is comprised of four major efforts, the AN/SLQ-25 (NIXIE) system, Torpedo Warning System (TWS), the Countermeasure Anti-Torpedo (CAT) and Acoustic Device Countermeasure (ADC MK2 Mod4). The CAT and ADC MK2 programs are funded with WPN.												
WL101 AN/SLQ-25A UPGRADE KITS Procures the upgrade to the AN/SLQ-25 (NIXIE) towed acoustic countermeasure system. The AN/SLQ-25C enhances ship survivability against future torpedo threats. The upgrades include a more reliable power amplifier, Commercial-off-the-shelf (COTS) Signal Generator with new operational capability, a new Littoral Fiber Optic Tow Cable (LFOTC) for operations in shallow water, and enhanced EC-16 capability (details classified).												
WL102 Torpedo Warning System (TWS) Procures the Torpedo Warning System (TWS). TWS is an automated Torpedo Detection, Classification, and Localization (TDCL) system that generates warning alerts on incoming threat torpedoes as well as the Tactical Control and Ready Stow launch support for autonomous Countermeasure Anti-Torpedo (CAT) hard-kill countermeasures. The TWS consists of towed active acoustic source and receive sensors, processing cabinets and workstations, and CAT Ready Stows mounted port and starboard.												
WL103 AN/SLQ-25X (TWS COMPATIBLE NIXIE SYSTEM) The solicitation for AN/SLQ-25X was cancelled.												
WL104 AN/SLQ-25C EC-2() In FY16 this effort has moved to WL106 Engineering Changes. Procures upgrade kits to bring AN-SLQ25C up to the EC-2 configuration which provides upgrades to winch, open architecture transmitting cabinet and anti-tamper technology. The EC-2 upgrade will enable integration between the AN/SLQ system and the TWS system and increases the reliability and maintainability of the AN/SLQ-25 system. The upgrade will also eliminate several obsolete parts in the AN/SLQ-25C system.												
WL105 AN/SLQ-25C CVN BATTLE SPARE In FY10 procured 1 AN/SLQ-25C for use as a replacement end item in the event of significant damage to a fleet system. Without this spare, a ship will go unprotected in excess of one year until a replacement system can be procured. The Battle Spare will be maintained at the latest configuration baseline.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment		P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
WL106 ENGINEERING CHANGES Tech Refresh effort provides hardware and software configuration changes to the production baseline of the AN/SLQ-25() System in response to service identified issues, obsolescence and limiting component availability. EC-1 software updates to fix AN/SLQ-25() outstanding issues which could render key functions inoperable without notification. This effort decreases potential vulnerability against torpedo threat by ensuring system baseline is available and maintainable to support operational readiness. Fact of Life Technology Insertions provide for military service life sustainability. In FY16 WL104 moves to WL106 Engineering Changes. Procures upgrade kits to bring AN-SLQ25C up to the EC-2 configuration which provides upgrades to winch, open architecture transmitting cabinet and anti-tamper technology. The EC-2 upgrade will enable integration between the AN/SLQ system and the TWS system and increases the reliability and maintainability of the AN/SLQ-25 system. The upgrade will also eliminate several obsolete parts in the AN/SLQ-25C system. The Surface Ship Torpedo Defense program uses P-40 resources to fund ISEA support to the Fleet, government oversight of contractor production and contractor consulting services. WL830 PRODUCTION ENGINEERING (IN-HOUSE) Funding provides specification preparation and validation, production planning, contract deliverable monitoring, prime contractor monitoring for cost, schedule, and performance and ILS planning, review and evaluation of obsolescence issues, and coordination of government furnished information (GFI) and government furnished equipment (GFE). WL840 QUALITY ASSURANCE (IN-HOUSE) Funding under this cost code provides for quality assurance efforts including conducting quality assurance reviews of the contractor and subcontractors, documentation indicating contractor conformity to product performance requirements, and review of objective quality evidence. WL860 ACCEPTANCE TEST & ENGINEERING Funding under this cost code provides for production acceptance of contractor hardware. WL900 PRODUCTION ENGINEERING (OUT-HOUSE) Consulting services for FY12 and prior provide production monitoring, installation planning and coordination support. WL900 CONSULTING SERVICES Funding under this cost code provides for contractor support to the program office for production monitoring, installation planning and coordination support. WL905 PRODUCTION ENGINEERING CONTRACTOR Funding under this cost code provides for production engineering tasks performed by the hardware contractor.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment					P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Surface Ship Torpedo Def (SSTD)	P-40a		- / 15.254	- / -	- / 4.271	- / 3.167	- / -	- / 3.167
1 / WL101 AN/SLQ25A UPGRADE KITS ()	P-3a		- / 113.075	- / -	- / -	- / -	- / -	- / -
2 / WL102 TORPEDO WARNING SYSTEM (TWS) HARDWARE ()	P-3a		- / 0.000	- / -	- / -	- / 0.400	- / -	- / 0.400
3 / WL103 AN/SLQ-25X (TWS COMPATIBLE SYSTEM) HARDWARE ()	P-3a		- / 3.788	- / -	- / -	- / -	- / -	- / -
4 / WL104 AN-SLQ25C EC-2 ()	P-3a		- / 7.065	- / -	- / 6.382	- / -	- / -	- / -
5 / WL106 ENGINEERING CHANGES 25C EC-2 ()	P-3a		- / 0.000	- / -	- / -	- / 4.829	- / -	- / 4.829
Total Gross/Weapon System Cost			- / 139.182	- / -	- / 10.653	- / 8.396	- / -	- / 8.396
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
Surface Ship Torpedo Def (SSTD)	P-40a		- / -	- / -	- / -	- / -	- / -	- / -
1 / WL101 AN/SLQ25A UPGRADE KITS ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 113.075
2 / WL102 TORPEDO WARNING SYSTEM (TWS) HARDWARE ()	P-3a		- / 0.708	- / 12.291	- / 20.209	- / 26.779	- / 202.375	- / 262.762
3 / WL103 AN/SLQ-25X (TWS COMPATIBLE SYSTEM) HARDWARE ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 3.788
4 / WL104 AN-SLQ25C EC-2 ()	P-3a		- / 0.473	- / -	- / -	- / -	- / -	- / 13.920
5 / WL106 ENGINEERING CHANGES 25C EC-2 ()	P-3a		- / 3.816	- / 8.270	- / 10.030	- / 8.434	Continuing	Continuing
Total Gross/Weapon System Cost			- / 7.856	- / 24.470	- / 31.892	- / 43.995	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 add due to rounding.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3						P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)									Aggregated Items Title: Surface Ship Torpedo Def (SSTD)					
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) WL105 AN-SLQ-25C CVN BATTLE SPARE																				
1.1) HARDWARE	A		-	-	1.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) WL105 AN-SLQ-25C CVN BATTLE SPARE			-	-	1.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) WL106 ENGINEERING CHANGE ⁽¹⁾																				
2.1) EC-1 UPDATE SLQ-25	A		-	-	-	-	-	-	-	-	0.700	-	-	0.700	-	-	-	-	0.700	
2.2) TECH REFRESH EC SLQ-25	A		-	-	-	-	-	-	-	-	-	-	-	0.468	-	-	-	-	0.468	
Subtotal: 2) WL106 ENGINEERING CHANGE			-	-	0.000	-	-	-	-	-	0.700	-	-	1.168	-	-	-	-	1.168	
3) WL830 PRODUCTION ENGINEERING																				
3.1) PRODUCTION ENGINEERING IN-HOUSE	A		-	-	11.919	-	-	-	-	-	0.499	-	-	0.499	-	-	-	-	0.499	
Subtotal: 3) WL830 PRODUCTION ENGINEERING			-	-	11.919	-	-	-	-	-	0.499	-	-	0.499	-	-	-	-	0.499	
4) WL840 QUALITY ASSURANCE (IN-HOUSE)																				
4.1) QUALITY ASSURANCE (IN-HOUSE)	A		-	-	0.100	-	-	-	-	-	0.764	-	-	0.200	-	-	-	-	0.200	
Subtotal: 4) WL840 QUALITY ASSURANCE (IN-HOUSE)			-	-	0.100	-	-	-	-	-	0.764	-	-	0.200	-	-	-	-	0.200	
5) WL860 ACCEPTANCE TEST AND ENGINEERING																				
5.1) Acceptance Test & Engineering	A		-	-	0.100	-	-	-	-	-	0.724	-	-	0.500	-	-	-	-	0.500	
Subtotal: 5) WL860 ACCEPTANCE TEST AND ENGINEERING			-	-	0.100	-	-	-	-	-	0.724	-	-	0.500	-	-	-	-	0.500	
6) WL900 SERVICES																				
6.1) PRODUCTION ENGINEERING (OUT-HOUSE)	A		-	-	0.925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6.2) CONSULTING SERVICES	A		-	-	0.510	-	-	-	-	-	0.584	-	-	0.200	-	-	-	-	0.200	
Subtotal: 6) WL900 SERVICES			-	-	1.435	-	-	-	-	-	0.584	-	-	0.200	-	-	-	-	0.200	
7) WL905 PRODUCTION ENGINEERING CONTRACTOR																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3								P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)							Aggregated Items Title: Surface Ship Torpedo Def (SSTD)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
7.1) PRODUCTION ENGINEERING CONTRACTOR	A		-	-	0.200	-	-	-	-	-	1.000	-	-	0.600	-	-	-	-	-	0.600
<i>Subtotal: 7) WL905 PRODUCTION ENGINEERING CONTRACTOR</i>			-	-	0.200	-	-	-	-	-	1.000	-	-	0.600	-	-	-	-	-	0.600
Total			-	-	15.254	-	-	-	-	-	4.271	-	-	3.167	-	-	-	-	-	3.167

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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) WL105 AN-SLQ-25C CVN BATTLE SPARE																				
1.1) HARDWARE	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) WL105 AN-SLQ-25C CVN BATTLE SPARE			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) WL106 ENGINEERING CHANGE ⁽¹⁾																				
2.1) EC-1 UPDATE SLQ-25	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.2) TECH REFRESH EC SLQ-25	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) WL106 ENGINEERING CHANGE			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3) WL830 PRODUCTION ENGINEERING																				
3.1) PRODUCTION ENGINEERING IN-HOUSE	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 3) WL830 PRODUCTION ENGINEERING			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4) WL840 QUALITY ASSURANCE (IN-HOUSE)																				
4.1) QUALITY ASSURANCE (IN-HOUSE)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 4) WL840 QUALITY ASSURANCE (IN-HOUSE)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5) WL860 ACCEPTANCE TEST AND ENGINEERING																				
5.1) Acceptance Test & Engineering	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3						P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)									Aggregated Items Title: Surface Ship Torpedo Def (SSTD)					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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: 5) WL860 ACCEPTANCE TEST AND ENGINEERING			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) WL900 SERVICES																				
6.1) PRODUCTION ENGINEERING (OUT-HOUSE)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) CONSULTING SERVICES	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 6) WL900 SERVICES			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7) WL905 PRODUCTION ENGINEERING CONTRACTOR																				
7.1) PRODUCTION ENGINEERING CONTRACTOR	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 7) WL905 PRODUCTION ENGINEERING CONTRACTOR			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:

(1) Software update to fix AN/SLQ-25C outstanding issues to maintain key function operability against torpedo threat. The growth between FY15 and FY16 is due to the Tech Refresh for the AN/SLQ-25 production baseline to provide hardware and software configuration changes for service identified issues, obsolescence and limiting component availability. Cost estimate based on historical contractor data.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)					Modification Number / Title: 1 / WL101 AN/SLQ25A UPGRADE KITS			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	113.075	-	-	-	-	-	-	-	-	-	-	113.075
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	113.075	-	-	-	-	-	-	-	-	-	-	113.075
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	113.075	-	-	-	-	-	-	-	-	-	-	113.075
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Upgrade AN/SLQ-25A System to AN/SLQ-25C. Upgrade kits include the following engineering changes: EC-4/9/10/12/13/14/15/16/17.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)				Modification Number / Title: 1 / WL101 AN/SLQ25A UPGRADE KITS						
Models of Systems Affected:			Modification Type:						Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
Modification Item 1 of 1: WL101 AN/SLQ25A UPGRADE KITS														
B Kits														
Recurring														
1.1.1) 25A MODIFICATION KITS - NonOrganic	214 / 51.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	214 / 51.700		
1.1.2) OTHER (CONG PLUS-UP) - NonOrganic	- / 34.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.100		
1.1.3) OTHER (DEC CONG PLUS-UP) - NonOrganic	- / 5.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.700		
Subtotal: Recurring	- / 91.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 91.500		
Subtotal: WL101 AN/SLQ25A UPGRADE KITS	214 / 91.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	214 / 91.500		
Subtotal: Procurement, All Modification Items	- / 91.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 91.500		
Installation														
Modification Item 1 of 1: WL101 AN/SLQ25A UPGRADE KITS	- / 21.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.575		
Subtotal: Installation	- / 21.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.575		
Total														
Total Cost (Procurement + Support + Installation)	113.075	-	-	-	-	-	-	-	-	-	-	113.075		

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3		P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)			Modification Number / Title: 1 / WL101 AN/SLQ25A UPGRADE KITS

Modification Item 1 of 1: WL101 AN/SLQ25A UPGRADE KITS

Manufacturer Information

Manufacturer Name: TBD			Manufacturer Location: TBD		
Administrative Leadtime (in Months):			Production Leadtime (in Months):		

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: AIT/SHIPYARD:: Installation Name: 25A MODIFICATION KITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	213 / 21.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	213 / 21.575
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	213 / 21.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	213 / 21.575

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213
Out	213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)					Modification Number / Title: 2 / WL102 TORPEDO WARNING SYSTEM (TWS) HARDWARE				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		0.000	-	-	0.400	-	0.400	0.708	12.291	20.209	26.779	202.375	262.762
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>		0.000	-	-	0.400	-	0.400	0.708	12.291	20.209	26.779	202.375	262.762
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		0.000	-	-	0.400	-	0.400	0.708	12.291	20.209	26.779	202.375	262.762
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Description: [TWS EQUIPMENT] TWS system provides torpedo detection, classification and localization of threat torpedoes. Subfunctional groups include the Target Acquisition Group, Tactical Control Group and the Ready Stow Group.													

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)					Modification Number / Title: 2 / WL102 TORPEDO WARNING SYSTEM (TWS) HARDWARE				
Models of Systems Affected:				Modification Type:					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: WL102 TORPEDO WARNING SYSTEM (TWS) HARDWARE													
B Kits													
Recurring													
1.1.1) TWS EQUIPMENT - NonOrganic ⁽²⁾		- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.900	1 / 9.060	2 / 19.696	47 / 44.128	51 / 81.784	
1.1.2) ENG CHANGE PROPOSALS ECPS - Organic		- / -	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.708	- / 3.391	- / 4.249	- / -	- / -	
Subtotal: Recurring		- / 0.000	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.708	- / 12.291	- / 13.309	- / 19.696	- / 44.128	
Subtotal: WL102 TORPEDO WARNING SYSTEM (TWS) HARDWARE		- / -	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.708	1 / 12.291	1 / 13.309	2 / 19.696	47 / 44.128	
Subtotal: Procurement, All Modification Items		- / 0.000	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.708	- / 12.291	- / 13.309	- / 19.696	- / 44.128	
Installation													
Modification Item 1 of 1: WL102 TORPEDO WARNING SYSTEM (TWS) HARDWARE		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.900	- / 7.083	- / 158.247	- / 172.230	
Subtotal: Installation		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.900	- / 7.083	- / 158.247	- / 172.230	
Total													
Total Cost (Procurement + Support + Installation)		0.000	-	-	0.400	-	0.400	0.708	12.291	20.209	26.779	202.375	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)	Modification Number / Title: 2 / WL102 TORPEDO WARNING SYSTEM (TWS) HARDWARE

Modification Item 1 of 1: WL102 TORPEDO WARNING SYSTEM (TWS) HARDWARE

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 12	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates				May 2017	May 2018		
Delivery Dates				May 2018	May 2019		

Installation Information

Method of Implementation: AIT/SHIPYARD:: Installation Name: TWS EQUIPMENT

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 6.900	- / -	- / -	1 / 6.900
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 7.083	- / -	1 / 7.083
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 14.166	2 / 14.166
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 144.081	47 / 144.081
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 6.900	1 / 7.083	49 / 158.247	51 / 172.230

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	49	51	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	49	51	

Footnotes:

⁽²⁾ TWS system provides torpedo detection, classification and localization of threat torpedoes. Subfunctional groups include the Target Acquisition Group, Tactical Control Group and the Ready Stow Group.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)					Modification Number / Title: 3 / WL103 AN/SLQ-25X (TWS COMPATIBLE SYSTEM) HARDWARE				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		3.788	-	-	-	-	-	-	-	-	-	-	3.788
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>		3.788	-	-	-	-	-	-	-	-	-	-	3.788
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		3.788	-	-	-	-	-	-	-	-	-	-	3.788
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Description: AN/SLQ-25X has been cancelled.													

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)						Modification Number / Title: 3 / WL103 AN/SLQ-25X (TWS COMPATIBLE SYSTEM) HARDWARE			
Models of Systems Affected:				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> WL103 AN/SLQ-25X (TWS COMPATIBLE SYSTEM) HARDWARE													
B Kits													
Recurring													
1.1.2) FY10 CONG ADD (WLCA3) - Organic	1 / 2.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.200	
1.1.3) WLCA3 PROD ENG & INT TEST - Organic	- / 1.588	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.588	
<i>Subtotal: Recurring</i>	- / 3.788	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.788	
<i>Subtotal: WL103 AN/SLQ-25X (TWS COMPATIBLE SYSTEM) HARDWARE</i>	1 / 3.788	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.788	
<i>Subtotal: Procurement, All Modification Items</i>	- / 3.788	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.788	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	3.788	-	-	-	-	-	-	-	-	-	-	3.788	

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)			Modification Number / Title: 3 / WL103 AN/SLQ-25X (TWS COMPATIBLE SYSTEM) HARDWARE	
Modification Item 1 of 1: WL103 AN/SLQ-25X (TWS COMPATIBLE SYSTEM) HARDWARE								
Manufacturer Information								
Manufacturer Name: TBD					Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>):					Production Leadtime (<i>in Months</i>):			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	
Contract Dates								
Delivery Dates								
Installation Information								
Method of Implementation (Organic): Not Installed - FY10 CONG ADD (WLCA3)						Installation Quantity: 1		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)					Modification Number / Title: 4 / WL104 AN-SLQ25C EC-2 ()			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	7.065	-	6.382	-	-	-	0.473	-	-	-	-	13.920
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	7.065	-	6.382	-	-	-	0.473	-	-	-	-	13.920
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	7.065	-	6.382	-	-	-	0.473	-	-	-	-	13.920
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Procures upgrade kits and engineering changes to bring AN-SLQ25C up to the EC-2 configuration which extends the systems useful military life, by upgrading the winch, open architecture transmitting cabinet and anti-tamper technology. The upgrade will eliminate several obsolete parts in the AN/SLQ-25C system and increase the reliability and maintainability of the system. The EC-2 upgrade will enable integration between the AN/SLQ system and the TWS system. In FY15 various hardware is being procured to support the 25C EC configuration for the 25C winch and electronics cabinet. [AN-SLQ25C EC-2 () ENGINEERING CHANGE] FY2014 Appropriation Act directed the restructure of AN/SLQ-25. FY15 will begin the restructure of the AN/SLQ-25 with engineering change design to enable integration between the AN/SLQ-25 system and the Torpedo Warning System (TWS) and increase reliability and maintainability of the AN/SLQ-25 system.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)				Modification Number / Title: 4 / WL104 AN-SLQ25C EC-2 ()					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: WL104 AN-SLQ25C EC-2 ()													
B Kits													
Recurring													
1.1.1) 25C EC2 EQUIPMENT - NonOrganic	1 / 0.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.480	
1.1.2) AN-SLQ25C EC-2 () ENGINEERING CHANGE - NonOrganic ⁽³⁾	- / -	- / -	2 / 3.382	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.382	
1.1.3) NON-RECURRING HARDWARE COSTS - Organic	- / 6.434	- / -	- / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.434	
Subtotal: Recurring	- / 6.914	- / -	- / 6.382	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.296	
Subtotal: WL104 AN-SLQ25C EC-2 ()	1 / 6.914	- / -	2 / 6.382	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 13.296	
Subtotal: Procurement, All Modification Items	- / 6.914	- / -	- / 6.382	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.296	
Installation													
Modification Item 1 of 1: WL104 AN-SLQ25C EC-2 ()	- / 0.151	- / -	- / -	- / -	- / -	- / -	- / 0.473	- / -	- / -	- / -	- / -	- / 0.624	
Subtotal: Installation	- / 0.151	- / -	- / -	- / -	- / -	- / -	- / 0.473	- / -	- / -	- / -	- / -	- / 0.624	
Total													
Total Cost (Procurement + Support + Installation)	7.065	-	6.382	-	-	-	0.473	-	-	-	-	13.920	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy											Date: February 2015																				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3					P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)					Modification Number / Title: 4 / WL104 AN-SLQ25C EC-2 ()																					
Modification Item 1 of 1: WL104 AN-SLQ25C EC-2 ()																															
Manufacturer Information																															
Manufacturer Name: Argon ⁽⁴⁾										Manufacturer Location: Union Town, PA																					
Administrative Leadtime (in Months): 6										Production Leadtime (in Months): 14																					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020																								
Contract Dates		Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019																									
Delivery Dates		Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020																									
Installation Information																															
Method of Implementation: AIT/Shipyard:: Installation Name: 25C EC2 EQUIPMENT																															
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years	1 / 0.151	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.151																			
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total	1 / 0.151	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Method of Implementation: [none specified]:: Installation Name: AN-SLQ25C EC-2 () ENGINEERING CHANGE																															
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3		P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)			Modification Number / Title: 4 / WL104 AN-SLQ25C EC-2 ()

Modification Item 1 of 1: WL104 AN-SLQ25C EC-2 ()

Installation Information

Method of Implementation: [none specified]:: Installation Name: AN-SLQ25C EC-2 () ENGINEERING CHANGE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.473	- / -	- / -	- / -	- / -	2 / 0.473
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.473	- / -	- / -	- / -	- / -	2 / 0.473

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2

Footnotes:

⁽³⁾ FY16-FY19 WL104-AN/SLQ-25C EC-2 moved to WL106 ENGINEERING CHANGES as part of FY14 AN/SLQ-25C EC-2 Appropriations Act directed Restructuring.

⁽⁴⁾ Administrative lead time is 6-9 months.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)	Modification Number / Title: 5 / WL106 ENGINEERING CHANGES 25C EC-2

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	-	4.829	-	4.829	3.816	8.270	10.030	8.434	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	-	4.829	-	4.829	3.816	8.270	10.030	8.434	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	-	4.829	-	4.829	3.816	8.270	10.030	8.434	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:

[WL106 Engineering Changes 25C EC2] Tech Refresh effort provides hardware and software configuration changes to the production baseline of the AN/SLQ-25() System in response to service identified issues, obsolescence and limiting component availability. EC-1 software updates to fix AN/SLQ-25() outstanding issues which could render key functions inoperable without notification. Effort decreases potential vulnerability against torpedo threat by ensuring system baseline is available and maintainable to support operational readiness. Fact of Life Technology Insertions provide for military service life sustainability. In FY16 WL104 moved to WL106 Engineering Changes. Procures upgrade kits to bring AN-SLQ25C up to the EC-2 configuration which provides upgrades to winch, open architecture transmitting cabinet and anti-tamper technology. The EC-2 upgrade will enable integration between the AN/SLQ system and the TWS system and increases the reliability and maintainability of the AN/SLQ-25 system. The upgrade will also eliminate several obsolete parts in the AN/SLQ-25C system.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)					Modification Number / Title: 5 / WL106 ENGINEERING CHANGES 25C EC-2				
Models of Systems Affected:				Modification Type:					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: WL106 ENGINEERING CHANGES 25C EC-2													
B Kits													
Recurring													
1.1.1) WL106 Engineering Changes 25C EC2 - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.879	2 / 4.976	3 / 7.613	Continuing	Continuing	
Subtotal: Recurring		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 4.879	- / 4.976	- / 7.613	Continuing	Continuing	
Non-Recurring													
1.2.1) WL106 25C-EC2 Non Recurring - Organic		- / -	- / -	- / -	- / 4.829	- / -	- / 4.829	- / 3.816	- / 3.391	- / 4.249	- / -	- / 16.285	
Subtotal: Non-Recurring		- / 0.000	- / -	- / -	- / 4.829	- / -	- / 4.829	- / 3.816	- / 3.391	- / 4.249	- / -	- / 16.285	
Subtotal: WL106 ENGINEERING CHANGES 25C EC-2		- / -	- / -	- / -	- / 4.829	- / -	- / 4.829	- / 3.816	2 / 8.270	2 / 9.225	3 / 7.613	Continuing	
Subtotal: Procurement, All Modification Items		- / 0.000	- / -	- / -	- / 4.829	- / -	- / 4.829	- / 3.816	- / 8.270	- / 9.225	- / 7.613	Continuing	
Installation													
Modification Item 1 of 1: WL106 ENGINEERING CHANGES 25C EC-2		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.805	- / 0.821	- / 1.256	- / 2.882	
Subtotal: Installation		- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.805	- / 0.821	- / 1.256	- / 2.882	
Total													
Total Cost (Procurement + Support + Installation)		0.000	-	-	4.829	-	4.829	3.816	8.270	10.030	8.434	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3		P-1 Line Item Number / Title: 2213 / Surface Ship Torpedo Def (SSTD)			Modification Number / Title: 5 / WL106 ENGINEERING CHANGES 25C EC-2		

Modification Item 1 of 1: WL106 ENGINEERING CHANGES 25C EC-2

Manufacturer Information

Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: WL106 Engineering Changes 25C EC2

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.805	- / -	- / -	2 / 0.805
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.821	- / -	2 / 0.821
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.256	3 / 1.256
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.805	2 / 0.821	3 / 1.256	7 / 2.882

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	3	7	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	3	7	

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy	Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip /
BSA 3: ASW Electronic Equipment

P-1 Line Item Number / Title:

2225 / Fixed Surveillance System

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

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	853.657	94.338	170.831	146.968	-	146.968	188.048	161.932	200.615	90.322	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	853.657	94.338	170.831	146.968	-	146.968	188.048	161.932	200.615	90.322	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	853.657	94.338	170.831	146.968	-	146.968	188.048	161.932	200.615	90.322	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2016 funding request was reduced by \$0.935 million to account for the availability of prior year execution balances.

Additional details with respect to this line item are held at a higher classification. This line item is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

[P40A / Classified (2225)]: Additional details with respect to this line item are held at a higher classification. This line item is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

[P40A / Classified (222506)]: Additional details with respect to this line item are held at a higher classification. This line item is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment				P-1 Line Item Number / Title: 2225 / Fixed Surveillance System			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO
Title*	Exhibits	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)
Fixed Surveillance System	P-40a		- / 853.657	- / 94.338	- / 170.831	- / 146.968	- / -
Total Gross/Weapon System Cost			- / 853.657	- / 94.338	- / 170.831	- / 146.968	- / -
*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 add due to rounding.							

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3								P-1 Line Item Number / Title: 2225 / Fixed Surveillance System							Aggregated Items Title: Fixed Surveillance System				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) Classified																				
1.1) Classified (2225)	A		-	-	794.868	-	-	87.715	-	-	164.094	-	-	140.188	-	-	-	-	-	140.188
1.2) Classified (222506)	A		-	-	58.789	-	-	6.623	-	-	6.737	-	-	6.780	-	-	-	-	-	6.780
Subtotal: 1) Classified			-	-	853.657	-	-	94.338	-	-	170.831	-	-	146.968	-	-	-	-	-	146.968
Total			-	-	853.657	-	-	94.338	-	-	170.831	-	-	146.968	-	-	-	-	-	146.968

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy	Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment	P-1 Line Item Number / Title: 2237 / SURTASS

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements: 0204311N				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	107.003	9.545	9.619	12.953	-	12.953	4.208	14.778	12.051	15.519	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	107.003	9.545	9.619	12.953	-	12.953	4.208	14.778	12.051	15.519	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	107.003	9.545	9.619	12.953	-	12.953	4.208	14.778	12.051	15.519	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	1.035	0.042	0.795	-	0.795	0.057	0.811	0.059	0.060	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

PROGRAM COVERAGE: Surveillance Towed Array Sensor System (SURTASS) is the mobile, tactical, and strategic arm of the Navy's undersea surveillance capability that provides deep ocean and littoral acoustic detection and cueing for tactical weapon platforms against diesel and nuclear submarines as well as surface vessels in any given Area of Operations worldwide. Dedicated ASW T-AGOS ships tow long acoustic arrays that collect acoustic data and relay that data to shore facilities via SHF satellites for processing and fusion of the resulting contact data with other sensors. Currently, there are five T-AGOS ships operating in the Pacific area. Ship configurations are:

(1) One T-AGOS Small Waterplane Area Twin Hull (SWATH) ship, a "small" SWATH-P platform, T-AGOS 22, USNS LOYAL, supporting passive operations using the TB-29A Twinline (TL-29A) array, providing improved detection and classification capability. This ship class uses the Integrated Common Processor (ICP) signal processing and display system common with the SSN ARCI Sonar Processing System, which was installed in 4QFY12;

(2) One Low Frequency Active (LFA) equipped ship, T-AGOS 23 USNS IMPECCABLE, the first "large" SWATH-A, configured with the ICP Processing and Display system, the TL-29A array, and the Low Frequency Active (LFA) transmit capability. The active capability provides greatly improved detection against diesel submarines as well as the quiet nuclear submarine threat;

(3) Three T-AGOS SWATH-P platforms, T-AGOS 20 USNS ABLE, T-AGOS 21 USNS EFFECTIVE, and T-AGOS 19 USNS VICTORIOUS, supporting passive/active operations, configured with the TL-29A array, the ICP processing and display system, and the Compact Low Frequency Active (CLFA) transmit capability. USNS ABLE is outfitted with the RDT&E,N CLFA Engineering Development Model (EDM) capability installed as part of her reactivation. USNS EFFECTIVE is outfitted with the first production CLFA capability, installed in FY11. USNS VICTORIOUS is outfitted with the second production CLFA capability, installed in FY12, completing the planned production effort. The RDT&E EDM system began its testing in FY08 and continued into FY12. Two production systems were procured under this line item - one in FY09 and one in FY10.

In addition to the five platforms described above, two shore sites are configured with the ICP processing and display suites to receive the T-AGOS acoustic data via SHF satellite communication links. Major upgrades to the ship platforms include TB-29A Twinline Arrays, the ICP signal processing and display upgrade that provides improved ship and shore processing in support of the TB-29A twinline arrays and active processing, and Communication C4I upgrades.

A cost sharing agreement with Japan also provides a shore site and two Japanese SWATH ships with similar capability to the T-AGOS SWATH ships for the Western Pacific region. Japanese Auxiliary Ocean Surveillance (JAOS) ships were upgraded with Twinline A180R passive receive arrays in FY04, and were updated with the ICP in FY09.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment		P-1 Line Item Number / Title: 2237 / SURTASS
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0204311N
[P3A / VG006 - Prior Year Funding]: VG006 Upgrade Procurement - Integrated Common Processor (ICP) signal processing and display upgrade for SURTASS platforms, ICP signal processing and display upgrade for J-AOS, twinline arrays, twinline array support equipment, ICP Shore OPS and Maintenance trainers at NOPF Dam Neck, VA and NOPF Whidbey Island, WA, SURTASS Team Trainers, Configuration Control Model (CCM) Tech Refresh systems, and Engineering Measurements Program (EMP) Tech Refresh Systems. [P3A - 6 / VG007 - Field Changes/Modifications]: VG007 Field Changes/Modifications - Provide for correction of deficiencies identified by Fleet use, array support equipment, communications equipment, and replacement of aging/unsupportable equipment. VG776 Installation of Equipment - Installation Agents: SSC LANT, SSC PAC, Military Sealift Command, and Lockheed Martin.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment					P-1 Line Item Number / Title: 2237 / SURTASS			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements: 0204311N		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / VG006 - Prior Year Funding (NA)	P-3a		- / 32.400	- / -	- / -	- / -	- / -	- / -
2 / VG006 - Integrated Common Processor ()	P-3a		- / 13.605	- / 7.935	- / 8.537	- / 7.317	- / -	- / 7.317
3 / VG006 - TB-29 Twinline Arrays ()	P-3a		- / 44.687	- / -	- / -	- / -	- / -	- / -
4 / VG006 - SURTASS Team Trainer ()	P-3a		- / 2.000	- / -	- / -	- / 4.590	- / -	- / 4.590
5 / VG006 - ICP Training Device ()	P-3a		- / 5.100	- / 0.731	- / -	- / -	- / -	- / -
6 / VG007 - Field Changes/Modifications ()	P-3a		- / 9.211	- / 0.879	- / 1.082	- / 1.046	- / -	- / 1.046
Total Gross/Weapon System Cost			- / 107.003	- / 9.545	- / 9.619	- / 12.953	- / -	- / 12.953
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / VG006 - Prior Year Funding (NA)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 32.400
2 / VG006 - Integrated Common Processor ()	P-3a		- / 2.200	- / 8.568	- / 3.200	- / 7.966	Continuing	Continuing
3 / VG006 - TB-29 Twinline Arrays ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 44.687
4 / VG006 - SURTASS Team Trainer ()	P-3a		- / 1.277	- / 4.190	- / 1.750	- / 4.500	Continuing	Continuing
5 / VG006 - ICP Training Device ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 5.831
6 / VG007 - Field Changes/Modifications ()	P-3a		- / 0.731	- / 2.020	- / 7.101	- / 3.053	- / -	- / 25.123
Total Gross/Weapon System Cost			- / 4.208	- / 14.778	- / 12.051	- / 15.519	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 add due to rounding.								

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2237 / SURTASS					Modification Number / Title: 1 / VG006 - Prior Year Funding			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	32.400	-	-	-	-	-	-	-	-	-	-	32.400
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	32.400	-	-	-	-	-	-	-	-	-	-	32.400
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	32.400	-	-	-	-	-	-	-	-	-	-	32.400
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Prior year funding												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2237 / SURTASS				Modification Number / Title: 1 / VG006 - Prior Year Funding						
Models of Systems Affected: Prior Year Funding			Modification Type: NA						Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
Modification Item 1 of 1: VG006 - Prior Year Funding														
B Kits														
Recurring														
1.1.1) Prior Year Funding - Organic	2 / 32.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 32.400		
Subtotal: Recurring	- / 32.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 32.400		
Subtotal: VG006 - Prior Year Funding	2 / 32.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 32.400		
Subtotal: Procurement, All Modification Items	- / 32.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 32.400		
Installation														
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
Total														
Total Cost (Procurement + Support + Installation)	32.400	-	-	-	-	-	-	-	-	-	-	32.400		

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Exhibit P-3a, Individual Modification: PB 2016 Navy					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3		P-1 Line Item Number / Title: 2237 / SURTASS			Modification Number / Title: 1 / VG006 - Prior Year Funding		
Modification Item 1 of 1: VG006 - Prior Year Funding							
Manufacturer Information							
Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Organic - Prior Year Funding					Installation Quantity: 2		

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2237 / SURTASS	Modification Number / Title: 2 / VG006 - Integrated Common Processor

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	13.605	7.935	8.537	7.317	-	7.317	2.200	8.568	3.200	7.966	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	13.605	7.935	8.537	7.317	-	7.317	2.200	8.568	3.200	7.966	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	13.605	7.935	8.537	7.317	-	7.317	2.200	8.568	3.200	7.966	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY14 begins cyclical ICP Tech Refresh of hardware. FY15 procures J-AOS Tech Refresh hardware.

NOTE: ICP system configuration varies from ship to ship depending upon the type of ship arrays used (passive only, or passive and active). Accordingly, the procurement and installation costs will vary from one platform to another, depending on the configuration and the ship.

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2237 / SURTASS						Modification Number / Title: 2 / VG006 - Integrated Common Processor			
Models of Systems Affected: Integrated Common Processor				Modification Type:				Related RDT&E PEs: 0204311N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> VG006 - Integrated Common Processor													
B Kits													
Recurring													
1.1.1) Integrated Common Processor - NonOrganic ⁽¹⁾	7 / 10.721	6 / 7.935	5 / 5.637	5 / 7.317	- / -	5 / 7.317	- / -	6 / 8.568	- / -	6 / 7.966	- / -	35 / 48.144	
<i>Subtotal: Recurring</i>	- / 10.721	- / 7.935	- / 5.637	- / 7.317	- / -	- / 7.317	- / -	- / 8.568	- / -	- / 7.966	- / -	- / 48.144	
<i>Subtotal: VG006 - Integrated Common Processor</i>	7 / 10.721	6 / 7.935	5 / 5.637	5 / 7.317	- / -	5 / 7.317	- / -	6 / 8.568	- / -	6 / 7.966	- / -	35 / 48.144	
<i>Subtotal: Procurement, All Modification Items</i>	- / 10.721	- / 7.935	- / 5.637	- / 7.317	- / -	- / 7.317	- / -	- / 8.568	- / -	- / 7.966	- / -	- / 48.144	
Installation													
<i>Modification Item 1 of 1:</i> VG006 - Integrated Common Processor	- / 2.884	- / -	- / 2.900	- / -	- / -	- / -	- / 2.200	- / -	- / 3.200	- / -	Continuing	Continuing	
<i>Subtotal: Installation</i>	- / 2.884	- / -	- / 2.900	- / -	- / -	- / -	- / 2.200	- / -	- / 3.200	- / -	Continuing	Continuing	
Total													
Total Cost (Procurement + Support + Installation)	13.605	7.935	8.537	7.317	-	7.317	2.200	8.568	3.200	7.966	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3										P-1 Line Item Number / Title: 2237 / SURTASS										Modification Number / Title: 2 / VG006 - Integrated Common Processor											
Modification Item 1 of 1: VG006 - Integrated Common Processor																															
Manufacturer Information																															
Manufacturer Name: Lockheed Martin ⁽²⁾															Manufacturer Location: VA																
Administrative Leadtime (in Months): 2															Production Leadtime (in Months): 12																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Jan 2014				Jan 2015				Jan 2016				Jan 2017				Jan 2018				Jan 2019				Jan 2020					
Delivery Dates		Jan 2015				Jan 2016				Jan 2017				Jan 2018				Jan 2019				Jan 2020				Jan 2021					
Manufacturer Name: Various															Manufacturer Location: Various																
Administrative Leadtime (in Months): 2															Production Leadtime (in Months): 12																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Jan 2014				Jan 2015				Jan 2016				Jan 2017				Jan 2018				Jan 2019				Jan 2020					
Delivery Dates		Jan 2015				Jan 2016				Jan 2017				Jan 2018				Jan 2019				Jan 2020				Jan 2021					
Installation Information																															
Method of Implementation: AIT (Alteration Installation Team):: Installation Name: Integrated Common Processor																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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 / 2.884	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.884																		
FY 2014		- / -	- / -	6 / 2.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.900																		
FY 2015		- / -	- / -	- / -	5 / -	- / -	5 / -	- / -	- / -	- / -	- / -	- / -	5 / -																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.200	- / -	- / -	- / -	- / -	5 / 2.200																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.200	- / -	- / -	6 / 3.200																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		7 / 2.884	- / -	6 / 2.900	5 / -	- / -	5 / -	5 / 2.200	- / -	6 / 3.200	- / -	Continuing	Continuing																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	-	-	-	-	1	-	3	2	-	-	-	5	1	-	3	1	-	-	-	-	1	-	3	2	-	-	-	-	6	35
Out	7	-	-	-	-	1	-	-	3	2	-	-	5	1	-	-	3	1	-	-	-	1	-	-	3	2	-	-	-	6	35

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2237 / SURTASS	Modification Number / Title: 2 / VG006 - Integrated Common Processor
Footnotes: (1) FY14 funding begins cyclical ICP Tech Refresh of hardware. FY15 funding procures J-AOS Tech Refresh hardware. NOTE: ICP system configuration varies from ship to ship depending upon the type of arrays used (passive only, or passive and active). Accordingly, the procurement and installation costs will vary from one platform to another, depending on the configuration and the ship. Installation Remarks: Installation schedules are subject to change based on ship availability. FY15 procurement associated with FMS program. Installation costs to be funded by FMS program. (2) Production lead time for 1st FY14, 1st FY16, and 1st FY18 systems is 10 months due to installation in place at Original Equipment Manufacturer (OEM) to support system test and troubleshooting. Other systems require overseas shipments for OCONUS installs.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2237 / SURTASS	Modification Number / Title: 3 / VG006 - TB-29 Twinline Arrays

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	44.687	-	-	-	-	-	-	-	-	-	-	44.687
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	44.687	-	-	-	-	-	-	-	-	-	-	44.687
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	44.687	-	-	-	-	-	-	-	-	-	-	44.687
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The TB-29A Twinline is a shallow water variant of the common array produced by NAVSEA. The array consists of 2 shorter array lengths and is designed for increased surveillance capability in high clutter environments and littoral areas. Six TB-29A Twinline arrays were delivered FY02 - FY07. In FY09, an additional array was procured by converting two TB-29A arrays into one TL-29A array which was delivered in 3QFY10 and was installed at no cost in FY11. Support equipment procurement is for ancillary test sets, array headline and roll control systems and array module modifications and testing. In FY12, an additional TL-29A array was procured; it was delivered in 2QFY14. Installation funding is not required for the support equipment.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2237 / SURTASS				Modification Number / Title: 3 / VG006 - TB-29 Twinline Arrays					
Models of Systems Affected: TB-29 Twinline Arrays				Modification Type:				Related RDT&E PEs: 0204311N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: VG006 - TB-29 Twinline Arrays													
B Kits													
Recurring													
1.1.1) TB-29 Twinline Arrays - NonOrganic ⁽³⁾	8 / 43.787	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 43.787	
Subtotal: Recurring	- / 43.787	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 43.787	
Subtotal: VG006 - TB-29 Twinline Arrays	8 / 43.787	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 43.787	
Subtotal: Procurement, All Modification Items	- / 43.787	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 43.787	
Installation													
Modification Item 1 of 1: VG006 - TB-29 Twinline Arrays	- / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.900	
Subtotal: Installation	- / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.900	
Total													
Total Cost (Procurement + Support + Installation)	44.687	-	-	-	-	-	-	-	-	-	-	44.687	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3										P-1 Line Item Number / Title: 2237 / SURTASS										Modification Number / Title: 3 / VG006 - TB-29 Twinline Arrays											
Modification Item 1 of 1: VG006 - TB-29 Twinline Arrays																															
Manufacturer Information																															
Manufacturer Name: Lockheed Martin														Manufacturer Location: Syracuse, NY																	
Administrative Leadtime (in Months): 2														Production Leadtime (in Months): 23																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates																															
Delivery Dates																															
Manufacturer Name: Various														Manufacturer Location: Various																	
Administrative Leadtime (in Months): 2														Production Leadtime (in Months): 23																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: AIT (Alteration Installation Team):: Installation Name: TB-29 Twinline Arrays																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		7 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000	8 / 0.900																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		7 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -	8 / 0.900																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8
Out	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2237 / SURTASS	Modification Number / Title: 3 / VG006 - TB-29 Twinline Arrays
Footnotes: ⁽³⁾ The TB-29A Twinline is a shallow water variant of the common array produced by NAVSEA. The array consists of 2 shorter array lengths and is designed for increased surveillance capability in high clutter environments and littoral areas. Six TB-29A Twinline arrays were delivered FY02 - FY07. In FY09, an additional array was procured by converting two TB-29A arrays into one TL-29A array which was delivered in 3QFY10 and was installed at no cost in FY11. In FY12, an additional TL-29A array was procured; The array was delivered in 2QFY14. Support equipment procurement is for ancillary test sets, array headline and roll control systems and array module modifications and testing. Installation funding is not required for the support equipment. Installation Remarks: Installation only occurs on 5 platforms. FY12 array was not installed; it was used as a ready asset in theater as of 2QFY14. Historically, an array is lost or severely damaged every 18 months. Last array was lost Sept 06; last array severely damaged was Jul 14 - this was the array that was being used as a ready asset in theater. Without a ready asset in theater, if an array is lost or damaged, a SURTASS ship cannot deploy and execute its mission.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2237 / SURTASS					Modification Number / Title: 4 / VG006 - SURTASS Team Trainer			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	2.000	-	-	4.590	-	4.590	1.277	4.190	1.750	4.500	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	2.000	-	-	4.590	-	4.590	1.277	4.190	1.750	4.500	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	2.000	-	-	4.590	-	4.590	1.277	4.190	1.750	4.500	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The SURTASS Team Trainer (STT) provides SURTASS crews with two high fidelity synthetic and live playback training capabilities to support Home Port Training Periods (HPTP) and Pre-Deployment Certification Periods (PDCP). There are 2 STTs, and Tech Refresh for these trainers begins in FY16. Each trainer will be refreshed on a 4 year cycle. Tech refresh for 1st STT will be in FY16, with installation in the following year. Tech Refresh for 2nd trainer will be in FY18 with installation the following year. Tech refresh for the STTs will continue on this cycle.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2237 / SURTASS				Modification Number / Title: 4 / VG006 - SURTASS Team Trainer					
Models of Systems Affected: SURTASS Team Trainer				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: VG006 - SURTASS Team Trainer													
B Kits													
Recurring													
1.1.1) SURTASS Team Trainer - NonOrganic ⁽⁴⁾	1 / 1.751	- / -	- / -	1 / 4.590	- / -	1 / 4.590	- / -	1 / 4.190	- / -	1 / 4.500	Continuing	Continuing	
Subtotal: Recurring	- / 1.751	- / -	- / -	- / 4.590	- / -	- / 4.590	- / -	- / 4.190	- / -	- / 4.500	Continuing	Continuing	
Subtotal: VG006 - SURTASS Team Trainer	1 / 1.751	- / -	- / -	1 / 4.590	- / -	1 / 4.590	- / -	1 / 4.190	- / -	1 / 4.500	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 1.751	- / -	- / -	- / 4.590	- / -	- / 4.590	- / -	- / 4.190	- / -	- / 4.500	Continuing	Continuing	
Installation													
Modification Item 1 of 1: VG006 - SURTASS Team Trainer	- / 0.249	- / -	- / -	- / -	- / -	- / -	- / 1.277	- / -	- / 1.750	- / -	- / -	- / 3.276	
Subtotal: Installation	- / 0.249	- / -	- / -	- / -	- / -	- / -	- / 1.277	- / -	- / 1.750	- / -	- / -	- / 3.276	
Total													
Total Cost (Procurement + Support + Installation)	2.000	-	-	4.590	-	4.590	1.277	4.190	1.750	4.500	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3										P-1 Line Item Number / Title: 2237 / SURTASS										Modification Number / Title: 4 / VG006 - SURTASS Team Trainer											
Modification Item 1 of 1: VG006 - SURTASS Team Trainer																															
Manufacturer Information																															
Manufacturer Name: NSWC CD													Manufacturer Location: BETHESDA, MD																		
Administrative Leadtime (in Months): 2													Production Leadtime (in Months): 14																		
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates										Jan 2016				Jan 2017				Jan 2018				Jan 2019				Jan 2020					
Delivery Dates										Jan 2017				Jan 2018				Jan 2019				Jan 2020				Jan 2021					
Manufacturer Name: Lockheed Martin													Manufacturer Location: VA																		
Administrative Leadtime (in Months): 2													Production Leadtime (in Months): 14																		
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates										Jan 2016				Jan 2017				Jan 2018				Jan 2019				Jan 2020					
Delivery Dates										Jan 2017				Jan 2018				Jan 2019				Jan 2020				Jan 2021					
Installation Information																															
Method of Implementation: AIT (Alteration Installation Team):: Installation Name: SURTASS Team Trainer																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		1 / 0.249	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.249																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.277	- / -	- / -	- / -	- / -	1 / 1.277																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.750	- / -	- / -	1 / 1.750																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -	1 / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		1 / 0.249	- / -	- / -	- / -	- / -	- / -	1 / 1.277	- / -	1 / 1.750	- / -	1 / -	4 / 3.276																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	-	-	-	-	1	-	-	-	-	-				
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-				

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2237 / SURTASS	Modification Number / Title: 4 / VG006 - SURTASS Team Trainer

Footnotes:

(4) The Team Trainer provides SURTASS crews with two high fidelity synthetic and live playback training capabilities to support Home Port Training Periods (HPTP) and Pre-Deployment Certification Periods (PDCP).

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2237 / SURTASS					Modification Number / Title: 5 / VG006 - ICP Training Device			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	5.100	0.731	-	-	-	-	-	-	-	-	-	5.831
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	5.100	0.731	-	-	-	-	-	-	-	-	-	5.831
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	5.100	0.731	-	-	-	-	-	-	-	-	-	5.831
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Procurement of ICP Trainers for IUSS School House completed in FY14.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3					P-1 Line Item Number / Title: 2237 / SURTASS					Modification Number / Title: 5 / VG006 - ICP Training Device			
Models of Systems Affected: ICP Training Device					Modification Type:					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
Modification Item 1 of 1: VG006 - ICP Training Device													
B Kits													
Recurring													
1.1.1) ICP Training Device - NonOrganic ⁽⁵⁾	2 / 4.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.600	
Subtotal: Recurring	- / 4.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.600	
Subtotal: VG006 - ICP Training Device	2 / 4.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.600	
Subtotal: Procurement, All Modification Items	- / 4.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.600	
Installation													
Modification Item 1 of 1: VG006 - ICP Training Device	- / 0.500	- / 0.731	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.231	
Subtotal: Installation	- / 0.500	- / 0.731	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.231	
Total													
Total Cost (Procurement + Support + Installation)	5.100	0.731	-	-	-	-	-	-	-	-	-	5.831	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3										P-1 Line Item Number / Title: 2237 / SURTASS										Modification Number / Title: 5 / VG006 - ICP Training Device											
Modification Item 1 of 1: VG006 - ICP Training Device																															
Manufacturer Information																															
Manufacturer Name: NSWC CD													Manufacturer Location: BETHESDA, MD																		
Administrative Leadtime (in Months): 2													Production Leadtime (in Months): 19																		
Dates		FY 2014		FY 2015		FY 2016		FY 2017		FY 2018		FY 2019		FY 2020																	
Contract Dates		Aug 2014																													
Delivery Dates		Sep 2014																													
Manufacturer Name: Various													Manufacturer Location: Various																		
Administrative Leadtime (in Months): 2													Production Leadtime (in Months): 19																		
Dates		FY 2014		FY 2015		FY 2016		FY 2017		FY 2018		FY 2019		FY 2020																	
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: AIT (Alteration Installation Team):: Installation Name: ICP Training Device																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		1 / 0.500	1 / 0.731	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.231																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		1 / 0.500	1 / 0.731	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.231																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Out	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2237 / SURTASS	Modification Number / Title: 5 / VG006 - ICP Training Device

Footnotes:

(5) Procurement of ICP Trainers for IUSS School House completed in FY14.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2237 / SURTASS				Modification Number / Title: 6 / VG007 - Field Changes/Modifications				

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.211	0.879	1.082	1.046	-	1.046	0.731	2.020	7.101	3.053	-	25.123
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	9.211	0.879	1.082	1.046	-	1.046	0.731	2.020	7.101	3.053	-	25.123
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.211	0.879	1.082	1.046	-	1.046	0.731	2.020	7.101	3.053	-	25.123
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Field Changes/Modifications for correction of deficiencies identified by Fleet use, array support, communications equipment and replacement of aging/unsupportable equipment.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2237 / SURTASS				Modification Number / Title: 6 / VG007 - Field Changes/Modifications					
Models of Systems Affected: Field Changes/ Modifications				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: VG007 - Field Changes/ Modifications													
B Kits													
Recurring													
1.1.1) Field Changes/Modifications - NonOrganic ⁽⁶⁾	53 / 6.282	5 / 0.667	5 / 0.731	5 / 0.661	- / -	5 / 0.661	5 / 0.339	5 / 1.235	5 / 5.952	5 / 1.956	- / -	88 / 17.823	
Subtotal: Recurring	- / 6.282	- / 0.667	- / 0.731	- / 0.661	- / -	- / 0.661	- / 0.339	- / 1.235	- / 5.952	- / 1.956	- / -	- / 17.823	
Subtotal: VG007 - Field Changes/Modifications	53 / 6.282	5 / 0.667	5 / 0.731	5 / 0.661	- / -	5 / 0.661	5 / 0.339	5 / 1.235	5 / 5.952	5 / 1.956	- / -	88 / 17.823	
Subtotal: Procurement, All Modification Items	- / 6.282	- / 0.667	- / 0.731	- / 0.661	- / -	- / 0.661	- / 0.339	- / 1.235	- / 5.952	- / 1.956	- / -	- / 17.823	
Installation													
Modification Item 1 of 1: VG007 - Field Changes/ Modifications	- / 2.929	- / 0.212	- / 0.351	- / 0.385	- / -	- / 0.385	- / 0.392	- / 0.785	- / 1.149	- / 1.097	- / -	- / 7.300	
Subtotal: Installation	- / 2.929	- / 0.212	- / 0.351	- / 0.385	- / -	- / 0.385	- / 0.392	- / 0.785	- / 1.149	- / 1.097	- / -	- / 7.300	
Total													
Total Cost (Procurement + Support + Installation)	9.211	0.879	1.082	1.046	-	1.046	0.731	2.020	7.101	3.053	-	25.123	

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Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2237 / SURTASS				Modification Number / Title: 6 / VG007 - Field Changes/Modifications				
Modification Item 1 of 1: VG007 - Field Changes/Modifications												
Manufacturer Information												
Manufacturer Name: SSC PAC						Manufacturer Location: San Diego, CA						
Administrative Leadtime (in Months): 2						Production Leadtime (in Months): 10						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Oct 2013	Oct 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019					
Delivery Dates	Aug 2014	Aug 2015	Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020					
Manufacturer Name: SSC LANT						Manufacturer Location: Charleston, SC						
Administrative Leadtime (in Months): 2						Production Leadtime (in Months): 10						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Oct 2013	Oct 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019					
Delivery Dates	Aug 2014	Aug 2015	Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020					
Manufacturer Name: Lockheed Martin						Manufacturer Location: VA						
Administrative Leadtime (in Months): 2						Production Leadtime (in Months): 10						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Oct 2013	Oct 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019					
Delivery Dates	Aug 2014	Aug 2015	Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020					
Installation Information												
Method of Implementation: AIT (Alteration Installation Team):: Installation Name: Field Changes/Modifications												
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	48 / 2.929	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 2.929
FY 2014	- / -	5 / 0.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.212
FY 2015	- / -	- / -	5 / 0.351	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.351
FY 2016	- / -	- / -	- / -	5 / 0.385	- / -	5 / 0.385	- / -	- / -	- / -	- / -	- / -	5 / 0.385
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.392	- / -	- / -	- / -	- / -	5 / 0.392
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.785	- / -	- / -	- / -	5 / 0.785
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.149	- / -	- / -	5 / 1.149
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.097	- / -	5 / 1.097
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	48 / 2.929	5 / 0.212	5 / 0.351	5 / 0.385	- / -	5 / 0.385	5 / 0.392	5 / 0.785	5 / 1.149	5 / 1.097	- / -	83 / 7.300

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Exhibit P-3a, Individual Modification: PB 2016 Navy																							Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3										P-1 Line Item Number / Title: 2237 / SURTASS										Modification Number / Title: 6 / VG007 - Field Changes/Modifications											
Modification Item 1 of 1: VG007 - Field Changes/Modifications																															
Installation Information																															
Method of Implementation: AIT (Alteration Installation Team):: Installation Name: Field Changes/Modifications																															
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	48	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	83
Out	48	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	83

Footnotes:

⁽⁶⁾ Field Changes/Modifications for correction of deficiencies identified by Fleet use, array support, communications equipment and replacement of aging/unsupportable equipment.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment							P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force					
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:					Other Related Program Elements: 0604231N				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	44.106	18.130	14.390	13.725	-	13.725	13.501	13.823	14.164	14.462	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	44.106	18.130	14.390	13.725	-	13.725	13.501	13.823	14.164	14.462	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	44.106	18.130	14.390	13.725	-	13.725	13.501	13.823	14.164	14.462	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.829	0.526	0.722	-	0.722	0.645	0.760	0.525	0.534	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Maritime Patrol & Reconnaissance Force (MPRF) Mission Support Systems: MPRF Mission Support Systems provide the MPRF commanders with the capability to plan, direct, control and evaluate the tactical operations of MPRF and other assigned units within their respective area of responsibility. These operations include littoral, open ocean, and over land all sensor (e.g., Electro Optical (EO), Infrared (IR), Inverse Synthetic-Aperture Radar (ISAR)) surveillance, anti-surface warfare, over-the-horizon targeting, counter-drug operations, power projection, antisubmarine warfare, mining, search and rescue, homeland defense, and special operations.

The program includes fixed-site Tactical Operations Centers (TOCs) or equivalent and Mobile Tactical Operations Centers (MTOCs) or equivalent. Each TacMobile unit is a system-of-systems. TOCs provide sensor and tactical data communications systems; mission planning/mission support, sensor analysis capabilities; avionics and weapons system interfaces, media devices and data handling capabilities, at fixed-site locations. MTOC is a scalable and mobile version of the TOC for contingency operations and for support of operations from expeditionary airfields that do not have a TOC.

The TacMobile program uses an evolutionary development strategy consisting of incremental upgrades to meet new and emergent Fleet requirements, while retaining current capabilities. Increments are planned and resourced to support the MPRF Family of Systems aircraft: P-8A Poseidon aircraft and its upgrades; Advanced Airborne Sensor (AAS); MQ-4C Triton; as well as updated sensors on the P-3C series aircraft.

9 TOCs: 6 operational systems (located at Jacksonville, Florida; Sigonella, Italy; Kaneohe Bay, Hawaii; Whidbey Island, Washington; Kadena, Japan; and Bahrain), 1 training site (Center for Naval Air Technical Training (CNATT) Jacksonville, Florida), 2 laboratory sites (a communications integration lab located at Space & Naval Warfare Systems Command Systems Center (SSC) Atlantic, and an aircraft integration lab at SSC Atlantic detachment Patuxent River, Maryland).

15 MTOCs: 9 operational systems (home ported at Jacksonville, Florida (5 sites); Misawa, Japan; Whidbey Island, Washington; and Coronado (North Island), California (2 sites)), 1 laboratory site (an aircraft integration lab located at Navy Detachment Dallas), 1 C4I engineering and maintenance support system (located at the In Service Engineering Activity (ISEA), SSC Atlantic), 1 C4I mobile systems school house (Center for Naval Air Technical Training (CNATT) Jacksonville, Florida) and 3 systems awaiting End-to-End refresh/recapitalization to meet current operational configuration/requirements (SSC Lant).

Further transition and relocations are anticipated as primary maritime patrol and reconnaissance aircraft operating locations evolve in support of fleet operational requirements as a result of the ongoing transition to the P-8A as the replacement aircraft for the P-3C, and the introduction of the MQ-4C Triton. The TOC and MTOC personnel, along with their C4I infrastructure, will transition with these aircraft from a primarily forward deployed force to a more expeditionary surge-ready force.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment		P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items:	Other Related Program Elements: 0604231N
The TacMobile program uses an evolutionary development strategy consisting of incremental upgrades to meet new and emergent fleet requirements, while retaining current capabilities. Tactical Operations Center and Mobile Tactical Operations Center increments are planned and resourced to support the P-8A Poseidon, the MQ-4C Triton, and new and updated sensors on the P-3C series aircraft. WH046. Analysis Interface Equipment: This cost code contains TOC/MTOC sensor analysis, mission planning, and in-flight mission support capabilities, avionics and weapons system interfaces, computer upgrades and associated software for interfacing, analysis and processing equipment to the supported weapons systems (aircraft). It also includes mobility and facilities equipment necessary to power and support the processing equipment and interfaces.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 3: ASW Electronic Equipment				P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force				
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:			Other Related Program Elements: 0604231N		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / BLI 2246 Maritime Patrol & Reconnaissance Force (MPRF) Mission Support Systems	P-5, P-5a		- / 36.596	- / 14.237	- / 9.529	- / 0.184	- / -	- / 0.184
1 / BLI 2246 (MPRF) Mission Support Systems - Tech Refresh (Tech Refresh)	P-3a		- / 7.510	- / 0.277	- / -	- / 2.268	- / -	- / 2.268
2 / BLI 2246 (MPRF) Mission Support Systems- Tech Refresh 2.1.1 (Upgrade)	P-3a		- / 0.000	- / 3.616	- / 4.861	- / 11.273	- / -	- / 11.273
Total Gross/Weapon System Cost			- / 44.106	- / 18.130	- / 14.390	- / 13.725	- / -	- / 13.725
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / BLI 2246 Maritime Patrol & Reconnaissance Force (MPRF) Mission Support Systems	P-5, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / BLI 2246 (MPRF) Mission Support Systems - Tech Refresh (Tech Refresh)	P-3a		- / 2.302	- / 6.461	- / 1.195	- / 1.647	Continuing	Continuing
2 / BLI 2246 (MPRF) Mission Support Systems- Tech Refresh 2.1.1 (Upgrade)	P-3a		- / 11.199	- / 7.162	- / 6.776	- / 1.113	- / -	- / 46.000
Total Gross/Weapon System Cost			- / 13.501	- / 13.823	- / 14.164	- / 14.462	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 add due to rounding.								
Justification: FY16 Procurements Include: Tech Refresh of TOC war fighter communications and war fighter Interfaces; Tech Refresh of MTOC war fighter communications and war fighter Interfaces to meet Joint Capabilities Integration and Development System requirements for support of P-8A Poseidon and MQ-4C Triton Intelligence, Surveillance, and Reconnaissance operations. TacMobile has three distinct tech refresh efforts across the FYDP: "Tech Refresh 2.0.1" provides technical modernization and refresh to previously fielded Increment 2.0 systems and modernizes operating system baseline and maintains information security posture, "Tech Refresh 2.1.1" provides technical modernization and refresh to previously fielded Increment 2.1 systems to enable interface with P-8A Increment 2 engineering change proposals, and "Overarching Tech Refresh" which provides an End-to-End technical refresh to MTOC systems that have not been upgraded and refreshed to the same baseline as the remaining TacMobile systems. These units are now in need of refresh to meet current operational configuration requirements.								

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Exhibit P-5, Cost Analysis: PB 2016 Navy								Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force					Item Number / Title [DODIC]: 1 / BLI 2246 Maritime Patrol & Reconnaissance Force (MPRF) Mission Support Systems									
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)		36.596	14.237	9.529	0.184	-	0.184	-	-	-	-	-	-					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) (\$ in Millions)		36.596	14.237	9.529	0.184	-	0.184	-	-	-	-	-	-					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		36.596	14.237	9.529	0.184	-	0.184	-	-	-	-	-	-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-	-	-	-	-	-	-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - Maritime Patrol & Reconnaissance Force (MPRF) - WH046 Tactical/Mobile Cost																		
Recurring Cost																		
1.1.1) TOC/MTOC 2.1 ^(†) (1)	868.462	26	22.580	854.077	13	11.103	720.364	11	7.924	-	-	-	-	-	-	-	-	-
1.1.2) TOC/MTOC 2.0.1 ^(†) (2)	575.444	18	10.358	277.875	8	2.223	292.500	2	0.585	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	32.938	-	-	13.326	-	-	8.509	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Maritime Patrol & Reconnaissance Force (MPRF) - WH046 Tactical/Mobile Cost	-	-	32.938	-	-	13.326	-	-	8.509	-	-	-	-	-	-	-	-	-
Hardware - WH776 Installation Cost																		
Recurring Cost																		
2.1.1) 2.1 Install	-	-	1.718	-	-	0.415	-	-	0.752	-	-	0.092	-	-	-	-	-	0.092
2.1.3) Shore Pre-Installation Design	-	-	0.493	-	-	0.196	-	-	-	-	-	-	-	-	-	-	-	-
2.1.4) 2.0.1 Install	-	-	1.447	-	-	0.300	-	-	0.268	-	-	0.092	-	-	-	-	-	0.092
Subtotal: Recurring Cost	-	-	3.658	-	-	0.911	-	-	1.020	-	-	0.184	-	-	-	-	-	0.184
Subtotal: Hardware - WH776 Installation Cost	-	-	3.658	-	-	0.911	-	-	1.020	-	-	0.184	-	-	-	-	-	0.184

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Exhibit P-5, Cost Analysis: PB 2016 Navy										Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3						P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force						Item Number / Title [DODIC]: 1 / BLI 2246 Maritime Patrol & Reconnaissance Force (MPRF) Mission Support Systems					

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 add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	36.596	-	-	14.237	-	-	9.529	-	-	0.184	-	-	-	-	-	0.184

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)

Hardware - Maritime Patrol & Reconnaissance Force (MPRF) - WH046 Tactical/Mobile Cost

Recurring Cost																		
1.1.1) TOC/MTOC 2.1 ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) TOC/MTOC 2.0.1 ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Maritime Patrol & Reconnaissance Force (MPRF) - WH046 Tactical/Mobile Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Hardware - WH776 Installation Cost

Recurring Cost																		
2.1.1) 2.1 Install	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) Shore Pre-Installation Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.4) 2.0.1 Install	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - WH776 Installation Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Footnotes:

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Exhibit P-5, Cost Analysis: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force	Item Number / Title [DODIC]: 1 / BLI 2246 Maritime Patrol & Reconnaissance Force (MPRF) Mission Support Systems
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(1) 1. Quantities represent separate Command & Control & Intelligence (C2I), Communications, and Mobility/Facility component system upgrades of TacMobile systems. 2. Unit cost represents an average, because TacMobile is a system of systems. Configuration of upgrade systems to be procured vary by site unique differences. 3. Install costs vary due to different equipment mixes, site specific requirements, and varied, world-wide locations. 4. FY15 procurement includes non recurring Fly Away Kit components, to meet JCIDS requirements. Unit cost for FY15 procurements will differ from previous years due to these unique procurements. Fly away kits are received turn key and do not require in house integration. (2) 1. Quantities represent separate Command & Control & Intelligence (C2I), Communications, and Mobility/Facility component system upgrades of TacMobile systems. 2. Unit cost represents an average, because TacMobile is a system of systems. Configuration of upgrade and refresh systems to be procured vary by Increment. 3. Install costs vary across fiscal years due to different equipment mixes, site specific requirements, and varied, world-wide locations. 4. Unit cost variances exist in Tech Refresh procurements in order to bring all TacMobile sites to a common configuration baseline. 5. Integration, pre-installation and checkout, packaging, and shipping require a 6 month lead time prior to installation.		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3			P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force					Item Number / Title [DODIC]: 1 / BLI 2246 Maritime Patrol & Reconnaissance Force (MPRF) Mission Support Systems				
Cost Elements	OCO	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
1.1.1) TOC/MTOC 2.1		2014	SSC LANT / Charleston, SC	C / FFP	SSC LANT	Feb 2014	Apr 2014	13	854.077	Y		Sep 2013
1.1.1) TOC/MTOC 2.1		2015	SSC LANT / Charleston, SC	C / FFP	SSC LANT	Feb 2015	Apr 2015	11	720.364	Y		Sep 2014
1.1.2) TOC/MTOC 2.0.1		2014	SSC LANT / Charleston, SC	C / FFP	SSC LANT	Feb 2014	Jun 2014	8	277.875	Y		Sep 2013
1.1.2) TOC/MTOC 2.0.1		2015	SSC LANT / Charleston, SC	C / FFP	SSC LANT	Feb 2015	Jun 2015	2	292.500	Y		Sep 2014

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force					Modification Number / Title: 1 / BLI 2246 (MPRF) Mission Support Systems - Tech Refresh				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		7.510	0.277	-	2.268	-	2.268	2.302	6.461	1.195	1.647	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		7.510	0.277	-	2.268	-	2.268	2.302	6.461	1.195	1.647	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		7.510	0.277	-	2.268	-	2.268	2.302	6.461	1.195	1.647	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 Thousands)		-	-	-	-	-	-	-	-	-	-	-	-
Description: Provides overarching technical modernization and technical refresh to fielded TacMobile systems that have not routinely been refreshed or upgraded and are now required to be restored to full systems capability.													

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LI 2246 - Maritime Patrol and Reconnaissance Force
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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force	Modification Number / Title: 1 / BLI 2246 (MPRF) Mission Support Systems - Tech Refresh

Modification Item 1 of 1: BLI 2246 (MPRF) Mission Support Systems - Tech Refresh

Manufacturer Information							
Manufacturer Name: SSC LANT ⁽⁴⁾				Manufacturer Location: Charleston, SC			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 7			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Jan 2016				
Delivery Dates			Aug 2016				

Installation Information

Method of Implementation: [none specified]:: Installation Name: Tech Refresh Installations

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	12 / 0.790	4 / 0.277	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.067
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.125	- / -	- / -	- / -	- / -	2 / 0.125
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.125	- / -	- / -	- / -	2 / 0.125
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.375	- / -	- / -	5 / 0.375
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.065	- / -	1 / 0.065
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / -	3 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Total	12 / 0.790	4 / 0.277	- / -	- / -	- / -	- / -	2 / 0.125	2 / 0.125	5 / 0.375	1 / 0.065	Continuing	Continuing

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	12	-	4	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-	2	3	-	-	1	-	-	3	29
Out	12	-	4	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-	2	3	-	-	1	-	-	3	29

Footnotes:

⁽³⁾ 1. Quantities represent separate Warfighter Interface, Warfighter Communications, Analysis, and Mobility/Facility components of TacMobile systems. 2. Unit cost represents an average, because TacMobile is a system of systems. Configuration of upgrade and refresh systems to be procured vary by Increment. 3. Install costs vary across fiscal years due to different equipment mixes, site specific requirements, and varied, world-wide locations. 10 MTOCS were delivered "turnkey" prior to 2009, so are not counted as PY installs. 4. FY16 procures overarching MTOC ELEVEN required Tech Refresh components. Components require 4 month integration lead time.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force	Modification Number / Title: 1 / BLI 2246 (MPRF) Mission Support Systems - Tech Refresh
(4) Procurement of equipment for MTOC TR		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force					Modification Number / Title: 2 / BLI 2246 (MPRF) Mission Support Systems- Tech Refresh 2.1.1				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		0.000	3.616	4.861	11.273	-	11.273	11.199	7.162	6.776	1.113	-	46.000
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>		0.000	3.616	4.861	11.273	-	11.273	11.199	7.162	6.776	1.113	-	46.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		0.000	3.616	4.861	11.273	-	11.273	11.199	7.162	6.776	1.113	-	46.000
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Description: Provides technical modernization and technical refresh to fielded TacMobile systems necessary to support P-8A Poseidon Increment 2 and MQ-4C Triton Unmanned Aerial System (UAS) at their initial operating capability.													

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3				P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force				Modification Number / Title: 2 / BLI 2246 (MPRF) Mission Support Systems- Tech Refresh 2.1.1					
Models of Systems Affected: N/A				Modification Type: Upgrade				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: BLI 2246 (MPRF) Mission Support Systems- Tech Refresh 2.1.1													
B Kits													
Recurring													
1.1.1) TOC - NonOrganic ⁽⁵⁾		- / -	3 / 1.639	1 / 1.165	3 / 1.977	- / -	3 / 1.977	3 / 2.011	3 / 2.045	3 / 2.080	- / -	- / -	16 / 10.917
1.1.2) MTOC - NonOrganic ⁽⁶⁾		- / -	4 / 1.655	3 / 3.496	6 / 7.886	- / -	6 / 7.886	6 / 7.403	3 / 3.507	3 / 3.603	- / -	- / -	25 / 27.550
Subtotal: Recurring		- / 0.000	- / 3.294	- / 4.661	- / 9.863	- / -	- / 9.863	- / 9.414	- / 5.552	- / 5.683	- / -	- / -	- / 38.467
Subtotal: BLI 2246 (MPRF) Mission Support Systems- Tech Refresh 2.1.1		- / -	7 / 3.294	4 / 4.661	9 / 9.863	- / -	9 / 9.863	9 / 9.414	6 / 5.552	6 / 5.683	- / -	- / -	41 / 38.467
Subtotal: Procurement, All Modification Items		- / 0.000	- / 3.294	- / 4.661	- / 9.863	- / -	- / 9.863	- / 9.414	- / 5.552	- / 5.683	- / -	- / -	- / 38.467
Support (All Modification Items)													
2.1) Shore Pre-Installation		- / -	- / -	- / 0.200	- / 0.200	- / -	- / 0.200	- / 0.200	- / -	- / -	- / -	- / -	- / 0.600
Subtotal: Support		- / 0.000	- / -	- / 0.200	- / 0.200	- / -	- / 0.200	- / 0.200	- / -	- / -	- / -	- / -	- / 0.600
Installation													
Modification Item 1 of 1: BLI 2246 (MPRF) Mission Support Systems- Tech Refresh 2.1.1		- / 0.000	- / 0.322	- / -	- / 1.210	- / -	- / 1.210	- / 1.585	- / 1.610	- / 1.093	- / 1.113	- / -	- / 6.933
Subtotal: Installation		- / 0.000	- / 0.322	- / -	- / 1.210	- / -	- / 1.210	- / 1.585	- / 1.610	- / 1.093	- / 1.113	- / -	- / 6.933
Total													
Total Cost (Procurement + Support + Installation)		0.000	3.616	4.861	11.273	-	11.273	11.199	7.162	6.776	1.113	-	46.000

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force	Modification Number / Title: 2 / BLI 2246 (MPRF) Mission Support Systems- Tech Refresh 2.1.1

Modification Item 1 of 1: BLI 2246 (MPRF) Mission Support Systems- Tech Refresh 2.1.1

Manufacturer Information							
Manufacturer Name: SSC LANT				Manufacturer Location: Charleston, SC			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 6			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jan 2014	Jan 2015	Jan 2016				
Delivery Dates	Jul 2014	Jul 2015	Jul 2016				

Installation Information

Method of Implementation: Method:: Installation Name: TR 2.1.1 Installations

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	7 / 0.322	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.322
FY 2015	- / -	- / -	- / -	4 / 1.210	- / -	4 / 1.210	- / -	- / -	- / -	- / -	- / -	4 / 1.210
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.585	- / -	- / -	- / -	- / -	9 / 1.585
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.610	- / -	- / -	- / -	9 / 1.610
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.093	- / -	- / -	6 / 1.093
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.113	- / -	6 / 1.113
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	7 / 0.322	- / -	4 / 1.210	- / -	4 / 1.210	9 / 1.585	9 / 1.610	6 / 1.093	6 / 1.113	- / -	41 / 6.933

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	7	-	-	-	-	-	3	1	-	-	3	3	3	-	3	3	3	-	2	2	2	-	3	3	-	-	41
Out	-	-	-	-	7	-	-	-	-	-	3	1	-	-	3	3	3	-	3	3	3	-	2	2	2	-	3	3	-	-	41

Footnotes:

⁽⁵⁾ 1. Quantities represent separate Command & Control & Intelligence (C2I), Communications, and Mobility/Facility component system upgrades of TacMobile systems. 2. Unit cost represents an average, because TacMobile is a system of systems. Configuration of upgrade systems to be procured vary by site unique differences. 3. Install costs vary due to different equipment mixes, site specific requirements, and varied, world-wide locations.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 3	P-1 Line Item Number / Title: 2246 / Maritime Patrol and Reconnaissance Force	Modification Number / Title: 2 / BLI 2246 (MPRF) Mission Support Systems- Tech Refresh 2.1.1

(6) 1. Procurement costs for MTOCs vary from year to year due to site specific requirements that require different equipment mixes depending on the current configuration of legacy equipment to be replaced at each site.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 4: Electronic Warfare Equipment	P-1 Line Item Number / Title: 2312 / AN/SLQ-32

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items: 0204228N					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	235.570	150.353	195.082	324.726	-	324.726	412.526	427.934	443.407	546.733	3,199.546	5,935.877
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	235.570	150.353	195.082	324.726	-	324.726	412.526	427.934	443.407	546.733	3,199.546	5,935.877
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	235.570	150.353	195.082	324.726	-	324.726	412.526	427.934	443.407	546.733	3,199.546	5,935.877
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	0.934	2.466	4.228	-	4.228	4.876	3.280	5.502	4.150	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/SLQ-32(V) provides a family of modular shipborne electronic warfare equipment which is installed on all surface combatants, aircraft carriers, amphibious ships and auxiliaries in the surface Navy. The system consists of eight configurations and provides early detection, analysis, threat warning and protection from anti-ship missiles.

TC056: SURFACE ELECTRONIC WARFARE (EW) IMPROVEMENTS BLOCK 1

The Surface Electronic Warfare (EW) Improvement Program (SEWIP) will develop a modern, highly capable family of EW systems by block upgrade of the current AN/SLQ-32 system that is robust in detecting and countering current and future threats and will extend the service life of AN/SLQ-32(V) systems. Funding procures upgrades to the current AN/SLQ-32 system.

Electronic Surveillance Enhancement (ESE) replaces the Digital Processing Unit and Digital Tracking Unit with a modern computer system. This enhanced functionality increases Anti-Ship Missile Defense (ASMD) capabilities by increasing the probability of correct identification of threats. ESE is also being adapted to the unique Aircraft Carrier variant configuration.

Block 1B1: Small Ship Electronic Support Measures System (SSESM) provides Specific Emitter Identification (SEI) capability to various ships/ship classes in a stand-alone configuration. Tech Refresh funding is provided to address obsolescence and reliability issues presenting affecting fielded systems.

Block 1B2: The federated SEI, consisting of SEI hardware plus an ICAD modification kit, fully integrates SEI functionality with the ICAD/Q-70 console. Tech Refresh funding is provided to address obsolescence and reliability issues affecting fielded systems.

Block 1B3: High Gain High Sensitivity (HGHS) Adjunct Sensor is a critical improvement for threat correlation, situational awareness, and extending the battle space. Development Status/Major Development Milestones are: Milestone C/Low-Rate Initial Production (LRIP) 4Q FY12, Full Rate Production (FRP) 2Q FY15. Engineering Change Proposal (ECP) funding is provided to support changes resulting from software and hardware trouble reports from production, shipboard installations and/or land based testing. Tech Refresh funding is provided to address obsolescence and reliability issues affecting fielded systems.

TC059: SURFACE ELECTRONIC WARFARE (EW) IMPROVEMENTS BLOCK 2

Block 2 will provide AN/SLQ-32(V) an upgraded antenna, receiver, and combat systems interface. The upgrades will pace the threat, improve detection and accuracy and mitigate Electromagnetic Interference (EMI). Development Status/Major Development Milestones are: Milestone C Low-Rate Initial Production (LRIP) 2Q FY13, Full Rate Production (FRP) 2Q FY15. Engineering Change Proposal (ECP) funding is

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 4: Electronic Warfare Equipment		P-1 Line Item Number / Title: 2312 / AN/SLQ-32
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items: 0204228N	Other Related Program Elements:
provided to support changes resulting from software and hardware trouble reports from production, shipboard installations and/or land based testing. Tech Refresh funding is provided to address obsolescence and reliability issues affecting fielded systems. TC060: SURFACE ELECTRONIC WARFARE (EW) IMPROVEMENTS BLOCK 3: Block 3 will provide an Electronic Attack (EA) capability improvement required for the AN/SLQ-32(V) system to keep pace with the threat. The upgrade will provide a common EA capability to all surface combatants (CVN,CG, DDG, LHA) outfitted with the active variant of the AN/SLQ-32, mainly the (V)3 and (V)4, as well as select new-construction platforms. The program builds on the EW Electronic Support (ES) capability delivered by Blocks 1 and 2. Development Status/Major Milestones are: Long Lead Materials will be procured 3Q FY17, Milestone C Low-Rate Initial Production (LRIP) 3Q FY 18, IOT&E, 3Q FY20 Block 3T will provide an Electronic Attack (EA) capability improvement required for the AN/SLQ32(V) system to keep pace with the threat. Block 3T provides initial, limited interim capability of a focused application of the Naval Research Lab (NRL) Transportable EW Module (TEWM) system to meet an urgent operational needs statement. TC5IN: FMP INSTALLATIONS Shipboard installation of AN/SLQ-32(V) ECP/Field Changes and the Surface EW Improvements Blocks 1, 2 and 3. TC6IN: NON-FMP INSTALLATIONS Installation of AN/SLQ-32(V) ECP/Field Changes and the Surface EW Improvements Blocks 1, 2 and 3 at Shore Site Facilities.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 4: Electronic Warfare Equipment				P-1 Line Item Number / Title: 2312 / AN/SLQ-32				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items: 0204228N			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / TC056 - BLOCK 1B1 SSES (SHIPALT/AIT)	P-3a		- / 42.287	- / 0.517	- / -	- / 0.492	- / -	- / 0.492
2 / TC056 - BLOCK 1B2 FEDERATED SEI (SHIPALT/AIT)	P-3a		- / 58.096	- / 0.692	- / 0.673	- / -	- / -	- / -
3 / TC056 - BLOCK 1B3 HGHS (SHIPALT/AIT)	P-3a		- / 18.913	- / 20.134	- / 18.696	- / 29.408	- / -	- / 29.408
4 / TC056 - BLOCK 1 ESE (SHIPALT/AIT)	P-3a		- / 38.006	- / 4.967	- / 2.211	- / -	- / -	- / -
5 / TC059 - BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM (SHIPALT/AIT)	P-3a		- / 78.268	- / 108.643	- / 163.102	- / 237.847	- / -	- / 237.847
6 / TC060 - BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM (SHIPALT/AIT)	P-3a		- / 0.000	- / -	- / -	- / -	- / -	- / -
7 / TC060 - BLOCK 3T SURFACE EW IMPROVEMENTS EA System (SHIPALT/AIT)	P-3a		- / 0.000	- / 15.400	- / 10.400	- / 56.979	- / -	- / 56.979
Total Gross/Weapon System Cost			- / 235.570	- / 150.353	- / 195.082	- / 324.726	- / -	- / 324.726
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / TC056 - BLOCK 1B1 SSES (SHIPALT/AIT)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 43.296
2 / TC056 - BLOCK 1B2 FEDERATED SEI (SHIPALT/AIT)	P-3a		- / -	- / -	- / 0.509	- / 0.398	- / 9.856	- / 70.224
3 / TC056 - BLOCK 1B3 HGHS (SHIPALT/AIT)	P-3a		- / 31.505	- / 34.247	- / 25.298	- / 16.420	- / 119.869	- / 314.490
4 / TC056 - BLOCK 1 ESE (SHIPALT/AIT)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 45.184
5 / TC059 - BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM (SHIPALT/AIT)	P-3a		- / 237.433	- / 241.096	- / 186.072	- / 102.044	- / 855.888	- / 2,210.393
6 / TC060 - BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM (SHIPALT/AIT)	P-3a		- / 97.991	- / 148.640	- / 231.528	- / 427.871	- / 2,213.933	- / 3,119.963
7 / TC060 - BLOCK 3T SURFACE EW IMPROVEMENTS EA System (SHIPALT/AIT)	P-3a		- / 45.597	- / 3.951	- / -	- / -	- / -	- / 132.327
Total Gross/Weapon System Cost			- / 412.526	- / 427.934	- / 443.407	- / 546.733	- / 3,199.546	- / 5,935.877
*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 add due to rounding.								

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4				P-1 Line Item Number / Title: 2312 / AN/SLQ-32					Modification Number / Title: 1 / TC056 - BLOCK 1B1 SSES			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	42.287	0.517	-	0.492	-	0.492	-	-	-	-	-	43.296
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	42.287	0.517	-	0.492	-	0.492	-	-	-	-	-	43.296
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	42.287	0.517	-	0.492	-	0.492	-	-	-	-	-	43.296
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Small Ship Electronic Support Measures System (SSES) provides Specific Emitter Identification (SEI) capability to various ships/ship classes in a stand-alone configuration. Tech Refresh funding is provided to address obsolescence and reliability issues affecting fielded systems.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4				P-1 Line Item Number / Title: 2312 / AN/SLQ-32				Modification Number / Title: 1 / TC056 - BLOCK 1B1 SSES					
Models of Systems Affected: TC056 SURFACE EW IMPROVEMENTS BLOCK 1: BLOCK 1B1 - SSES				Modification Type: SHIPALT/AIT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: TC056 - BLOCK 1B1 SSES													
B Kits													
Recurring													
1.1.1) CNSG EQUIPMENT - NonOrganic ⁽¹⁾	15 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / -	
1.1.2) FMP SHIP UNITS - NonOrganic	52 / 18.111	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 18.111	
Subtotal: Recurring	- / 18.111	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.111	
Subtotal: TC056 - BLOCK 1B1 SSES	67 / 18.111	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 18.111	
Subtotal: Procurement, All Modification Items	- / 18.111	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.111	
Support (All Modification Items)													
2.1) Production Support	- / 8.704	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.704	
2.2) Tech Refresh ⁽²⁾	- / 2.470	- / 0.517	- / -	- / 0.492	- / -	- / 0.492	- / -	- / -	- / -	- / -	- / -	- / 3.479	
Subtotal: Support	- / 11.174	- / 0.517	- / -	- / 0.492	- / -	- / 0.492	- / -	- / -	- / -	- / -	- / -	- / 12.183	
Installation													
Modification Item 1 of 1: TC056 - BLOCK 1B1 SSES	- / 13.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.002	
Subtotal: Installation	- / 13.002	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.002	
Total													
Total Cost (Procurement + Support + Installation)	42.287	0.517	-	0.492	-	0.492	-	-	-	-	-	43.296	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4										P-1 Line Item Number / Title: 2312 / AN/SLQ-32										Modification Number / Title: 1 / TC056 - BLOCK 1B1 SSES											
Modification Item 1 of 1: TC056 - BLOCK 1B1 SSES																															
Manufacturer Information																															
Manufacturer Name: General Dynamics AIS															Manufacturer Location: Fair Lakes VA																
Administrative Leadtime (in Months): 1															Production Leadtime (in Months): 8																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: SHIPALT/AIT:: Installation Name: CNSG EQUIPMENT																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		15 / 2.206	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.206																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		15 / 2.206	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.206																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
Out	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
Method of Implementation: SHIPALT/AIT:: Installation Name: FMP SHIP UNITS																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		52 / 10.796	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 10.796																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 1 / TC056 - BLOCK 1B1 SSES

Modification Item 1 of 1: TC056 - BLOCK 1B1 SSES

Installation Information

Method of Implementation: SHIPALT/AIT:: Installation Name: FMP SHIP UNITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	52 / 10.796	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 10.796

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52
Out	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52

Footnotes:

(1) Fifteen (15) units procured by Chief Naval Security Group (CNSG)

(2) FY16 Funding completes the technology refresh efforts for the SEWIP Block 1B1 SSES; this consist of replacement of obsolete laptop computers adn circuit cards and applies to CG and DDG class ships with block 1B1 SSES systems (50 ships).

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 2 / TC056 - BLOCK 1B2 FEDERATED SEI

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	58.096	0.692	0.673	-	-	-	-	-	0.509	0.398	9.856	70.224
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	58.096	0.692	0.673	-	-	-	-	-	0.509	0.398	9.856	70.224
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	58.096	0.692	0.673	-	-	-	-	-	0.509	0.398	9.856	70.224
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The federated SEI, consisting of SEI hardware plus an ICAD modification kit, fully integrates SEI functionality with the ICAD/Q-70 console. Tech Refresh funding is provided to address obsolescence and reliability issues affecting fielded systems.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4				P-1 Line Item Number / Title: 2312 / AN/SLQ-32				Modification Number / Title: 2 / TC056 - BLOCK 1B2 FEDERATED SEI					
Models of Systems Affected: TC056 SURFACE EW IMPROVEMENTS BLOCK 1: BLOCK 1B2 - FEDERATED SEI				Modification Type: SHIPALT/AIT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: TC056 - BLOCK 1B2 FEDERATED SEI													
B Kits													
Recurring													
1.1.1) FMP SHIP UNITS - NonOrganic		60 / 27.558	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.370	- / -	9 / 4.003	70 / 31.931	
1.1.2) NON-FMP SHORE SITE UNITS - NonOrganic		2 / 0.682	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.682	
Subtotal: Recurring		- / 28.240	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.370	- / -	- / 4.003	- / 32.613	
Subtotal: TC056 - BLOCK 1B2 FEDERATED SEI		62 / 28.240	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.370	- / -	9 / 4.003	72 / 32.613	
Subtotal: Procurement, All Modification Items		- / 28.240	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.370	- / -	- / 4.003	- / 32.613	
Support (All Modification Items)													
2.1) Production Support		- / 7.935	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.092	- / -	- / -	- / 8.027	
2.2) Tech Refresh		- / 3.706	- / 0.692	- / 0.673	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.029	- / 5.100	
Subtotal: Support		- / 11.641	- / 0.692	- / 0.673	- / -	- / -	- / -	- / -	- / 0.092	- / -	- / 0.029	- / 13.127	
Installation													
Modification Item 1 of 1: TC056 - BLOCK 1B2 FEDERATED SEI		- / 18.215	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.047	- / 0.398	- / 5.824	- / 24.484	
Subtotal: Installation		- / 18.215	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.047	- / 0.398	- / 5.824	- / 24.484	
Total													
Total Cost (Procurement + Support + Installation)		58.096	0.692	0.673	-	-	-	-	-	0.509	0.398	9.856	70.224

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 2 / TC056 - BLOCK 1B2 FEDERATED SEI

Modification Item 1 of 1: TC056 - BLOCK 1B2 FEDERATED SEI

Manufacturer Information

Manufacturer Name: General Dynamics AIS				Manufacturer Location: Fair Lakes, VA			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 8			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates						Mar 2019	
Delivery Dates						Nov 2019	

Installation Information

Method of Implementation: SHIPALT/AIT:: Installation Name: FMP SHIP UNITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	60 / 17.779	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 17.779
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.047	1 / 0.398	- / -	1 / 0.445
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 5.824	9 / 5.824
Total	60 / 17.779	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.047	1 / 0.398	9 / 5.824	70 / 24.048

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	9	70	
Out	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	9	70	

Method of Implementation: [none specified]:: Installation Name: NON-FMP SHORE SITE UNITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.436	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.436

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 2 / TC056 - BLOCK 1B2 FEDERATED SEI

Modification Item 1 of 1: TC056 - BLOCK 1B2 FEDERATED SEI

Installation Information

Method of Implementation: [none specified]:: Installation Name: NON-FMP SHORE SITE UNITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.436	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.436

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Out	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 3 / TC056 - BLOCK 1B3 HGHS

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	18.913	20.134	18.696	29.408	-	29.408	31.505	34.247	25.298	16.420	119.869	314.490
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	18.913	20.134	18.696	29.408	-	29.408	31.505	34.247	25.298	16.420	119.869	314.490
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	18.913	20.134	18.696	29.408	-	29.408	31.505	34.247	25.298	16.420	119.869	314.490
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

High Gain High Sensitivity (HGHS) Adjunct Sensor is a critical improvement for threat correlation, situational awareness, and extending the battle space. Development Status/Major Development Milestones are: Milestone C/Low-Rate Initial Production (LRIP) 4Q FY12, Full Rate Production (FRP) 2Q FY15. Engineering Change Proposal (ECP) funding is provided to support changes resulting from software and hardware trouble reports from production, shipboard installations and/or land based testing. Tech Refresh funding is provided to address obsolescence and reliability issues affecting fielded systems.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4				P-1 Line Item Number / Title: 2312 / AN/SLQ-32				Modification Number / Title: 3 / TC056 - BLOCK 1B3 HGHS					
Models of Systems Affected: TC056 SURFACE EW IMPROVEMENTS BLOCK 1 - BLOCK 1B3 HGHS				Modification Type: SHIPALT/AIT				Related RDT&E PEs: 0604757N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: TC056 - BLOCK 1B3 HGHS													
B Kits													
Recurring													
1.1.1) FMP BLOCK 1B3 - NonOrganic ⁽³⁾	7 / 11.698	8 / 10.408	8 / 9.608	16 / 18.976	- / -	16 / 18.976	15 / 17.745	12 / 14.220	10 / 11.920	5 / 6.015	37 / 53.226	118 / 153.816	
1.1.2) NON-FMP SHORE SITE INSTALL - NonOrganic	2 / 3.342	3 / 3.903	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 7.245	
1.1.3) BLK 1B3 GFE UNIT FOR BLK 3 OEM - NonOrganic	- / -	1 / 1.301	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.301	
Subtotal: Recurring	- / 15.040	- / 15.612	- / 9.608	- / 18.976	- / -	- / 18.976	- / 17.745	- / 14.220	- / 11.920	- / 6.015	- / 53.226	- / 162.362	
Subtotal: TC056 - BLOCK 1B3 HGHS	9 / 15.040	12 / 15.612	8 / 9.608	16 / 18.976	- / -	16 / 18.976	15 / 17.745	12 / 14.220	10 / 11.920	5 / 6.015	37 / 53.226	124 / 162.362	
Subtotal: Procurement, All Modification Items	- / 15.040	- / 15.612	- / 9.608	- / 18.976	- / -	- / 18.976	- / 17.745	- / 14.220	- / 11.920	- / 6.015	- / 53.226	- / 162.362	
Support (All Modification Items)													
2.1) Production Support	- / 3.197	- / 3.194	- / 1.793	- / 1.604	- / -	- / 1.604	- / 2.612	- / 3.589	- / 2.286	- / 2.178	- / 12.528	- / 32.981	
2.2) Tech Refresh	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
2.3) Engineering Change Proposals (ECPs)	- / -	- / -	- / 0.489	- / 0.489	- / -	- / 0.489	- / 1.255	- / 1.589	- / 1.410	- / 1.482	- / -	- / 6.714	
Subtotal: Support	- / 3.197	- / 3.194	- / 2.282	- / 2.093	- / -	- / 2.093	- / 3.867	- / 5.178	- / 3.696	- / 3.660	- / 12.528	- / 39.695	
Installation													
Modification Item 1 of 1: TC056 - BLOCK 1B3 HGHS	- / 0.676	- / 1.328	- / 6.806	- / 8.339	- / -	- / 8.339	- / 9.893	- / 14.849	- / 9.682	- / 6.745	- / 54.115	- / 112.433	
Subtotal: Installation	- / 0.676	- / 1.328	- / 6.806	- / 8.339	- / -	- / 8.339	- / 9.893	- / 14.849	- / 9.682	- / 6.745	- / 54.115	- / 112.433	
Total													
Total Cost (Procurement + Support + Installation)	18.913	20.134	18.696	29.408	-	29.408	31.505	34.247	25.298	16.420	119.869	314.490	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4										P-1 Line Item Number / Title: 2312 / AN/SLQ-32										Modification Number / Title: 3 / TC056 - BLOCK 1B3 HGHS											
Modification Item 1 of 1: TC056 - BLOCK 1B3 HGHS																															
Manufacturer Information																															
Manufacturer Name: General Dynamics AIS															Manufacturer Location: Fair Lakes, VA																
Administrative Leadtime (in Months): 1															Production Leadtime (in Months): 15																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Aug 2014				Aug 2015				Jan 2016				Jan 2017				Jan 2018				Jan 2019				Jan 2020					
Delivery Dates		Nov 2015				Nov 2016				Apr 2017				Apr 2018				Apr 2019				Apr 2020				Apr 2021					
Installation Information																															
Method of Implementation: SHIPALT/AIT:: Installation Name: FMP BLOCK 1B3																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		0 / 0.676	- / 1.162	7 / 4.445	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 6.283																		
FY 2014		- / -	- / 0.166	1 / 1.405	7 / 4.401	- / -	7 / 4.401	- / -	- / -	- / -	- / -	- / -	8 / 5.972																		
FY 2015		- / -	- / -	- / 0.116	1 / 1.178	- / -	1 / 1.178	7 / 4.449	- / -	- / -	- / -	- / -	8 / 5.743																		
FY 2016		- / -	- / -	- / -	- / 0.720	- / -	- / 0.720	5 / 4.414	11 / 6.990	- / -	- / -	- / -	16 / 12.124																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / 1.030	10 / 6.902	5 / 3.391	- / -	- / -	15 / 11.323																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.957	8 / 5.893	4 / 2.837	- / -	12 / 9.687																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.398	4 / 3.541	6 / 4.480	10 / 8.419																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.367	5 / 3.590	5 / 3.957																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 46.045	37 / 46.045																		
Total		0 / 0.676	- / 1.328	8 / 5.966	8 / 6.299	- / -	8 / 6.299	12 / 9.893	21 / 14.849	13 / 9.682	8 / 6.745	48 / 54.115	118 / 109.553																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	1	3	3	-	1	7	-	4	3	-	5	3	4	8	6	1	4	3	5	2	2	1	3	48	118
Out	-	-	-	-	-	-	1	1	3	3	-	1	7	-	4	3	-	5	3	4	8	6	1	4	3	5	2	2	1	51	118
Method of Implementation: AIT:: Installation Name: NON-FMP SHORE SITE INSTALL																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	2 / 0.840	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.840																		
FY 2014		- / -	- / -	- / -	3 / 1.533	- / -	3 / 1.533	- / -	- / -	- / -	- / -	- / -	3 / 1.533																		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4					P-1 Line Item Number / Title: 2312 / AN/SLQ-32					Modification Number / Title: 3 / TC056 - BLOCK 1B3 HGHS			

Modification Item 1 of 1: TC056 - BLOCK 1B3 HGHS

Installation Information

Method of Implementation: AIT:: Installation Name: NON-FMP SHORE SITE INSTALL

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 0.840	3 / 1.533	- / -	3 / 1.533	- / -	- / -	- / -	- / -	- / -	5 / 2.373

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	1	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	-	-	-	-	-	-	1	1	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5

Method of Implementation: AIT:: Installation Name: BLK 1B3 GFE UNIT FOR BLK 3 OEM

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	1 / 0.507	- / -	1 / 0.507	- / -	- / -	- / -	- / -	- / -	1 / 0.507
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.507	- / -	1 / 0.507	- / -	- / -	- / -	- / -	- / -	1 / 0.507

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy																				Date: February 2015											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4										P-1 Line Item Number / Title: 2312 / AN/SLQ-32										Modification Number / Title: 3 / TC056 - BLOCK 1B3 HGHS											
Modification Item 1 of 1: TC056 - BLOCK 1B3 HGHS																															
Installation Information																															
Method of Implementation: AIT:: Installation Name: BLK 1B3 GFE UNIT FOR BLK 3 OEM																															
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Out	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Footnotes:

⁽³⁾ Note 1: The FY14 procurement requirement was reduced by (7) units after PB15 to fund Block 3T procurements. Note 2: The FY15 unit cost reduction compared to PB15 is due to a reduction in the FY14 actual contract price. Additionally, Block 1B3 quantities were reduced by four (4) units, from 12 to 8, to ensure alignment with Block 2 installations and to fund Block 3T installations. Note 3: Changes from PB15 to PB16 are due to funds being added for additional Blk 1B3 systems to field systems at a higher rate. Note 4: The DSA and installation unit cost increased since PB15 based on the actual costs for the DDG-96 installation used for IOT&E.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 4 / TC056 - BLOCK 1 ESE

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	38.006	4.967	2.211	-	-	-	-	-	-	-	-	45.184
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	38.006	4.967	2.211	-	-	-	-	-	-	-	-	45.184
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	38.006	4.967	2.211	-	-	-	-	-	-	-	-	45.184
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Electronic Surveillance Enhancement (ESE) replaces the Digital Processing Unit and Digital Tracking Unit with a modern computer system. This enhanced functionality increases AntiShip Missile Defense (ASMD) capabilities by increasing the probability of correct identification of threats. ESE is also being adapted to the unique Aircraft Carrier variant configuration.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4				P-1 Line Item Number / Title: 2312 / AN/SLQ-32				Modification Number / Title: 4 / TC056 - BLOCK 1 ESE					
Models of Systems Affected: SURFACE EW IMPROVEMENTS BLOCK 1 ESE				Modification Type: SHIPALT/AIT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: TC056 - BLOCK 1 ESE													
B Kits													
Recurring													
1.1.1) FMP SHIP UNITS W/BLK 1A ICAD-Q70 - NonOrganic	26 / 2.668	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 2.668	
1.1.2) FMP SHIP UNITS - NonOrganic	101 / 19.768	2 / 1.083	2 / 1.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 21.952	
1.1.3) NON-FMP SHORE SITE UNITS - NonOrganic	34 / 6.452	1 / 0.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 7.002	
Subtotal: Recurring	- / 28.888	- / 1.633	- / 1.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 31.622	
Subtotal: TC056 - BLOCK 1 ESE	161 / 28.888	3 / 1.633	2 / 1.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	166 / 31.622	
Subtotal: Procurement, All Modification Items	- / 28.888	- / 1.633	- / 1.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 31.622	
Support (All Modification Items)													
2.1) Production Support	- / 5.936	- / 0.518	- / 0.517	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.971	
2.2) Tech Refresh	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Subtotal: Support	- / 5.936	- / 0.518	- / 0.517	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.971	
Installation													
Modification Item 1 of 1: TC056 - BLOCK 1 ESE	- / 3.182	- / 2.816	- / 0.593	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.591	
Subtotal: Installation	- / 3.182	- / 2.816	- / 0.593	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.591	
Total													
Total Cost (Procurement + Support + Installation)	38.006	4.967	2.211	-	-	-	-	-	-	-	-	45.184	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4										P-1 Line Item Number / Title: 2312 / AN/SLQ-32										Modification Number / Title: 4 / TC056 - BLOCK 1 ESE											
Modification Item 1 of 1: TC056 - BLOCK 1 ESE																															
Manufacturer Information																															
Manufacturer Name: Northrop Grumman ⁽⁴⁾														Manufacturer Location: Goleta, CA																	
Administrative Leadtime (in Months): 0														Production Leadtime (in Months): 6																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Nov 2013				Dec 2014																									
Delivery Dates		May 2014				Jul 2015																									
Installation Information																															
Method of Implementation: SHIPALTS/AIT:: Installation Name: FMP SHIP UNITS W/BLK 1A ICAD-Q70																															
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		26 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		26 / 0.000					
FY 2014		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2015		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		26 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		26 / -					
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
Out	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
Method of Implementation: SHIPALT/AIT:: Installation Name: FMP SHIP UNITS																															
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		97 / 2.420		4 / 1.392		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		101 / 3.812					
FY 2014		0 / 0.129		2 / 0.696		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 0.825					

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 4 / TC056 - BLOCK 1 ESE

Modification Item 1 of 1: TC056 - BLOCK 1 ESE

Installation Information

Method of Implementation: SHIPALT/AIT:: Installation Name: FMP SHIP UNITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / 0.072	2 / 0.593	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.665
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	97 / 2.549	6 / 2.160	2 / 0.593	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	105 / 5.302

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	97	2	2	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105
Out	97	2	2	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105

Method of Implementation: AIT:: Installation Name: NON-FMP SHORE SITE UNITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	31 / 0.633	3 / 0.492	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 1.125
FY 2014	- / -	1 / 0.164	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.164
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	31 / 0.633	4 / 0.656	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.289

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Exhibit P-3a, Individual Modification: PB 2016 Navy																							Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4											P-1 Line Item Number / Title: 2312 / AN/SLQ-32												Modification Number / Title: 4 / TC056 - BLOCK 1 ESE								
Modification Item 1 of 1: TC056 - BLOCK 1 ESE																															
Installation Information																															
Method of Implementation: AIT:: Installation Name: NON-FMP SHORE SITE UNITS																															
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	31	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	
Out	31	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	

Footnotes:

⁽⁴⁾ Production Lead Time 3-6 months

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 5 / TC059 - BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	78.268	108.643	163.102	237.847	-	237.847	237.433	241.096	186.072	102.044	855.888	2,210.393
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	78.268	108.643	163.102	237.847	-	237.847	237.433	241.096	186.072	102.044	855.888	2,210.393
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	78.268	108.643	163.102	237.847	-	237.847	237.433	241.096	186.072	102.044	855.888	2,210.393
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Block 2 will provide AN/SLQ-32(V) an upgraded antenna, receiver, and combat systems interface. The upgrades will pace the threat, improve detection and accuracy and mitigate Electromagnetic Interference (EMI). Development Status/Major Development Milestones are: Milestone C Low-Rate Initial Production (LRIP) 2Q FY13, Full Rate Production (FRP) 2Q FY15. Engineering Change Proposal (ECP) funding is provided to support changes resulting from software and hardware trouble reports from production, shipboard installations and/or land based testing. Tech Refresh funding is provided to address obsolescence and reliability issues affecting fielded systems.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4				P-1 Line Item Number / Title: 2312 / AN/SLQ-32				Modification Number / Title: 5 / TC059 - BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM					
Models of Systems Affected: TC059 SURFACE EW IMPROVEMENTS BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM				Modification Type: SHIPALT/AIT				Related RDT&E PEs: 0604757N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: TC059 - BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM													
B Kits													
Recurring													
1.1.1) FMP SHIP UNITS - NonOrganic ⁽⁵⁾	5 / 52.791	7 / 84.864	11 / 132.198	16 / 188.200	- / -	16 / 188.200	15 / 175.380	12 / 139.824	10 / 116.694	5 / 57.745	37 / 478.287	118 / 1,425.983	
1.1.2) NON-FMP SHORE SITE UNITS - NonOrganic	2 / 14.115	3 / 21.462	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 35.577	
Subtotal: Recurring	- / 66.906	- / 106.326	- / 132.198	- / 188.200	- / -	- / 188.200	- / 175.380	- / 139.824	- / 116.694	- / 57.745	- / 478.287	- / 1,461.560	
Subtotal: TC059 - BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM	7 / 66.906	10 / 106.326	11 / 132.198	16 / 188.200	- / -	16 / 188.200	15 / 175.380	12 / 139.824	10 / 116.694	5 / 57.745	37 / 478.287	123 / 1,461.560	
Subtotal: Procurement, All Modification Items	- / 66.906	- / 106.326	- / 132.198	- / 188.200	- / -	- / 188.200	- / 175.380	- / 139.824	- / 116.694	- / 57.745	- / 478.287	- / 1,461.560	
Support (All Modification Items)													
2.1) Production Support	- / 8.619	- / -	- / 4.311	- / 3.295	- / -	- / 3.295	- / 5.654	- / 8.889	- / 7.539	- / 5.328	- / 34.634	- / 78.269	
2.2) Tech Refresh	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.989	- / 2.619	- / 1.258	- / 51.002	- / 57.868	
2.3) Engineering Change Proposals (ECPs)	- / -	- / -	- / 0.879	- / 1.599	- / -	- / 1.599	- / 1.663	- / 4.326	- / 4.045	- / 1.135	- / -	- / 13.647	
Subtotal: Support	- / 8.619	- / -	- / 5.190	- / 4.894	- / -	- / 4.894	- / 7.317	- / 16.204	- / 14.203	- / 7.721	- / 85.636	- / 149.784	
Installation													
Modification Item 1 of 1: TC059 - BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM	- / 2.743	- / 2.317	- / 25.714	- / 44.753	- / -	- / 44.753	- / 54.736	- / 85.068	- / 55.175	- / 36.578	- / 291.965	- / 599.049	
Subtotal: Installation	- / 2.743	- / 2.317	- / 25.714	- / 44.753	- / -	- / 44.753	- / 54.736	- / 85.068	- / 55.175	- / 36.578	- / 291.965	- / 599.049	
Total													
Total Cost (Procurement + Support + Installation)	78.268	108.643	163.102	237.847	-	237.847	237.433	241.096	186.072	102.044	855.888	2,210.393	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 5 / TC059 - BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM

Modification Item 1 of 1: TC059 - BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Syracuse, NY
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 17

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Sep 2014	Mar 2015	Mar 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020
Delivery Dates	Feb 2016	Jul 2016	Jul 2017	May 2018	May 2019	May 2020	May 2021

Installation Information

Method of Implementation: SHIPALT/AIT:: Installation Name: FMP SHIP UNITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 2.743	- / 1.929	5 / 17.549	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 22.221
FY 2014	- / -	- / 0.388	1 / 5.195	6 / 21.777	- / -	6 / 21.777	- / -	- / -	- / -	- / -	- / -	7 / 27.360
FY 2015	- / -	- / -	- / 1.120	4 / 17.789	- / -	4 / 17.789	7 / 25.967	- / -	- / -	- / -	- / -	11 / 44.876
FY 2016	- / -	- / -	- / -	- / 2.307	- / -	- / 2.307	5 / 24.075	11 / 40.631	- / -	- / -	- / -	16 / 67.013
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.694	10 / 39.878	5 / 18.870	- / -	- / -	15 / 63.442
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.559	8 / 32.641	4 / 15.718	- / -	12 / 52.918
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.664	4 / 18.925	6 / 24.855	10 / 47.444
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.935	5 / 20.713	5 / 22.648
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 246.397	37 / 246.397
Total	0 / 2.743	- / 2.317	6 / 23.864	10 / 41.873	- / -	10 / 41.873	12 / 54.736	21 / 85.068	13 / 55.175	8 / 36.578	48 / 291.965	118 / 594.319

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	-	3	2	-	1	6	3	4	3	-	5	3	4	8	6	1	4	3	5	2	2	1	3	48	118
Out	-	-	-	-	-	-	1	-	3	2	-	1	6	3	4	3	-	5	3	4	8	6	1	4	3	5	2	2	1	51	118

Method of Implementation: AIT:: Installation Name: NON-FMP SHORE SITE UNITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	2 / 1.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.850

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 5 / TC059 - BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM

Modification Item 1 of 1: TC059 - BLOCK 2 ELECTRONIC SUPPORT (ES) SYSTEM

Installation Information

Method of Implementation: AIT:: Installation Name: NON-FMP SHORE SITE UNITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2014	- / -	- / -	- / -	3 / 2.880	- / -	3 / 2.880	- / -	- / -	- / -	- / -	- / -	3 / 2.880
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 1.850	3 / 2.880	- / -	3 / 2.880	- / -	- / -	- / -	- / -	- / -	5 / 4.730

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	1	1	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	-	-	-	-	-	-	1	1	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5

Footnotes:

⁽⁵⁾ Note 1: The FY15 unit price increase is based on the FY14 actual contract price. Note 2: The DSA and installation unit cost increased since PB15 based on the actual costs for the DDG-96 installation used for IOT&E. Note 3: Changes from PB15 to PB16 are due to funds being added for additional Block 2 systems to field systems at a higher rate

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 6 / TC060 - BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	97.991	148.640	231.528	427.871	2,213.933	3,119.963
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	97.991	148.640	231.528	427.871	2,213.933	3,119.963
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	-	-	-	97.991	148.640	231.528	427.871	2,213.933	3,119.963
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Block 3 will provide an Electronic Attack (EA) capability improvement required for the AN/SLQ-32(V) system to keep pace with the threat. The upgrade will provide a common EA capability to all surface combatants (CVN,CG, DDG, LHA) outfitted with the active variant of the AN/SLQ-32, mainly the (V)3 and (V)4, as well as select new-construction platforms. The program builds on the EW Electronic Support (ES) capability delivered by Blocks 1 and 2. Development Status/Major Milestones are: Long Lead Material will be procured ahead of LRIP units in 3Q FY17. The remainder of the units will be awarded at MS C 3Q FY18. Milestone C Low-Rate Initial Production (LRIP) 2Q FY 17, IOT&E, 4Q FY18

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4				P-1 Line Item Number / Title: 2312 / AN/SLQ-32				Modification Number / Title: 6 / TC060 - BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM					
Models of Systems Affected: TC060 SURFACE EW IMPROVEMENTS BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM				Modification Type: SHIPALT/AIT				Related RDT&E PEs: 0604757N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: TC060 - BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM													
B Kits													
Recurring													
1.1.1) FMP SHIP UNITS - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 50.704	2 / 96.318	4 / 190.096	7 / 329.259	33 / 1,178.999	47 / 1,845.376	
1.1.2) NON-FMP SHORE SITE UNITS - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 38.089	1 / 36.903	- / -	- / -	- / -	2 / 74.992	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 88.793	- / 133.221	- / 190.096	- / 329.259	- / 1,178.999	- / 1,920.368	
Subtotal: TC060 - BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM	- / -	- / -	- / -	- / -	- / -	- / -	2 / 88.793	3 / 133.221	4 / 190.096	7 / 329.259	33 / 1,178.999	49 / 1,920.368	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 88.793	- / 133.221	- / 190.096	- / 329.259	- / 1,178.999	- / 1,920.368	
Support (All Modification Items)													
2.1) Production Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.198	- / 11.231	- / 10.381	- / 11.279	- / 44.401	- / 86.490	
2.2) Tech Refresh	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.274	- / 37.274	
Subtotal: Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 9.198	- / 11.231	- / 10.381	- / 11.279	- / 81.675	- / 123.764	
Installation													
Modification Item 1 of 1: TC060 - BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.188	- / 31.051	- / 87.333	- / 953.259	- / 1,075.831	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.188	- / 31.051	- / 87.333	- / 953.259	- / 1,075.831	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	97.991	148.640	231.528	427.871	2,213.933	3,119.963	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4										P-1 Line Item Number / Title: 2312 / AN/SLQ-32										Modification Number / Title: 6 / TC060 - BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM											
Modification Item 1 of 1: TC060 - BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM																															
Manufacturer Information																															
Manufacturer Name: New MFG - Name ⁽⁶⁾													Manufacturer Location: New MFG - Loc																		
Administrative Leadtime (in Months): 0													Production Leadtime (in Months): 18																		
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates														Jun 2017				May 2018				Feb 2019				Jan 2020					
Delivery Dates														Jun 2019				Nov 2019				Aug 2020				Jul 2021					
Installation Information																															
Method of Implementation: SHIPALT/AIT:: Installation Name: FMP SHIP UNITS																															
Installation Cost		Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2014		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2015		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2016		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2017		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / 4,188		1 / 13,820		- / -		- / -		1 / 18,008		1 / 18,008						
FY 2018		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / 13,642		2 / 25,924		- / -		2 / 39,566		2 / 39,566						
FY 2019		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 50,478		2 / 45,431		4 / 95,909		4 / 95,909						
FY 2020		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / 7,327		7 / 120,509		7 / 127,836		7 / 127,836						
To Complete		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		33 / 787,319		33 / 787,319		33 / 787,319						
Total		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / 4,188		1 / 27,462		4 / 83,729		42 / 953,259		47 / 1,068,638		47 / 1,068,638						
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	2	42	47
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	44	47
Method of Implementation: AIT:: Installation Name: NON-FMP SHORE SITE UNITS																															
Installation Cost		Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		- / -	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 6 / TC060 - BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM

Modification Item 1 of 1: TC060 - BLOCK 3 ELECTRONIC ATTACK (EA) SYSTEM

Installation Information

Method of Implementation: AIT:: Installation Name: NON-FMP SHORE SITE UNITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.589	- / -	- / -	1 / 3.589
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.604	- / -	1 / 3.604
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.589	1 / 3.604	- / -	2 / 7.193

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	2
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	2

Footnotes:

⁽⁶⁾ The total lead time for production of FY17 units is 24 months, all other lead times are 18 months.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 7 / TC060 - BLOCK 3T SURFACE EW IMPROVEMENTS EA System

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	15.400	10.400	56.979	-	56.979	45.597	3.951	-	-	-	132.327
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	15.400	10.400	56.979	-	56.979	45.597	3.951	-	-	-	132.327
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	15.400	10.400	56.979	-	56.979	45.597	3.951	-	-	-	132.327
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Block 3T will provide an Electronic Attack (EA) capability improvement required for the AN/SLQ32(V) system to keep pace with the threat. Block 3T provides initial, limited interim capability of a focused application of the Naval Research Lab (NRL) Transportable EW Module (TEWM) system to meet an urgent operational needs statement.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4				P-1 Line Item Number / Title: 2312 / AN/SLQ-32				Modification Number / Title: 7 / TC060 - BLOCK 3T SURFACE EW IMPROVEMENTS EA System					
Models of Systems Affected: TC060 - BLOCK 3T SURFACE EW IMPROVEMENTS EA System				Modification Type: SHIPALT/AIT				Related RDT&E PEs: 0604757N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: TC060 - BLOCK 3T SURFACE EW IMPROVEMENTS EA System													
B Kits													
Recurring													
1.1.1) FMP Ship Units - NonOrganic ⁽⁷⁾		- / -	3 / 14.500	- / -	11 / 54.879	- / -	11 / 54.879	1 / 5.139	- / -	- / -	- / -	- / -	15 / 74.518
Subtotal: Recurring		- / 0.000	- / 14.500	- / -	- / 54.879	- / -	- / 54.879	- / 5.139	- / -	- / -	- / -	- / -	- / 74.518
Subtotal: TC060 - BLOCK 3T SURFACE EW IMPROVEMENTS EA System		- / -	3 / 14.500	- / -	11 / 54.879	- / -	11 / 54.879	1 / 5.139	- / -	- / -	- / -	- / -	15 / 74.518
Subtotal: Procurement, All Modification Items		- / 0.000	- / 14.500	- / -	- / 54.879	- / -	- / 54.879	- / 5.139	- / -	- / -	- / -	- / -	- / 74.518
Support (All Modification Items)													
2.1) Production Support		- / -	- / -	- / -	- / 2.100	- / -	- / 2.100	- / -	- / -	- / -	- / -	- / -	- / 2.100
Subtotal: Support		- / 0.000	- / -	- / -	- / 2.100	- / -	- / 2.100	- / -	- / -	- / -	- / -	- / -	- / 2.100
Installation													
Modification Item 1 of 1: TC060 - BLOCK 3T SURFACE EW IMPROVEMENTS EA System		- / 0.000	- / 0.900	- / 10.400	- / -	- / -	- / -	- / 40.458	- / 3.951	- / -	- / -	- / -	- / 55.709
Subtotal: Installation		- / 0.000	- / 0.900	- / 10.400	- / -	- / -	- / -	- / 40.458	- / 3.951	- / -	- / -	- / -	- / 55.709
Total													
Total Cost (Procurement + Support + Installation)		0.000	15.400	10.400	56.979	-	56.979	45.597	3.951	-	-	-	132.327

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 4	P-1 Line Item Number / Title: 2312 / AN/SLQ-32	Modification Number / Title: 7 / TC060 - BLOCK 3T SURFACE EW IMPROVEMENTS EA System

Modification Item 1 of 1: TC060 - BLOCK 3T SURFACE EW IMPROVEMENTS EA System

Manufacturer Information

Manufacturer Name: Exelis	Manufacturer Location: Boalsburg, PA
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jul 2014		Jan 2016	Jan 2017			
Delivery Dates	Jul 2015		Jan 2017	Jan 2018			

Installation Information

Method of Implementation: [none specified]:: Installation Name: FMP Ship Units

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / 0.900	3 / 10.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.300
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	11 / 40.458	- / -	- / -	- / -	- / -	11 / 40.458
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.951	- / -	- / -	- / -	1 / 3.951
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / 0.900	3 / 10.400	- / -	- / -	- / -	11 / 40.458	1 / 3.951	- / -	- / -	- / -	15 / 55.709

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	3	-	-	-	-	-	-	4	4	3	-	-	1	-	-	-	-	-	-	-	-	-	-	15
Out	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	4	4	3	-	-	1	-	-	-	-	-	-	-	-	-	15

Footnotes:

⁽⁷⁾ Changes from PB15 to PB16 are due to funds being added for additional systems and infrastructure to field Block 3T as an interim solution until the Blk 3 is fielded.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 5: Reconnaissance Equipment							P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	631.079	100.736	123.362	148.221	-	148.221	169.819	163.988	186.667	190.437	-	1,714.309
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	631.079	100.736	123.362	148.221	-	148.221	169.819	163.988	186.667	190.437	-	1,714.309
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	631.079	100.736	123.362	148.221	-	148.221	169.819	163.988	186.667	190.437	-	1,714.309
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	4.216	6.448	4.126	-	4.126	2.645	3.228	3.283	0.096	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

[P5 / 1U029 Information Warfare (IW) Training Equipment]: IW training equipment provides operator, unit or multi-unit level training on Tactical Cryptologic Systems (TCS). This equipment enhances initial skills, provides refresher training and increases proficiency of the operator on TCS through the generation and replay of operational scenarios by software simulation versus hardware simulation. IW training equipment is updated based on new variants of Ships Signal Exploitation Equipment (SSEE) systems. Additionally this line supports the procurement of the STALLION (formerly known as Cryptologic On-Line Trainer) hardware for shipboard IW team training. Stallion is a web-based/SOA scenario training system that emulates Navy tactical SIGINT/Information Operations (IO) system functionality. Stallion is delivered turnkey to the Center for Information Dominance Learning Sites (CIDLS).

[P5 / 1U016 SSEE Increment G]: The SSEE Inc G Program is an incremental acquisition, GOTS/COTS program that provides cryptologic signals exploitation capabilities designed to meet the requirements for shipboard cryptologic operations within the Ship's Signal Exploitation Space (SSES) aboard a variety of ship classes and shore facilities. The SSEE Inc G system will provide a mobile, passive capability to detect, classify, track, and determine the intent of enemy units through exploitation of their command and control emissions. The system searches the Radio Frequency (RF) spectrum based on operator-defined search strategies with the receivers under computer control, alerts the operator when a signal is detected and creates signal files to be used for on-line and post processing. The SSEE INC G System will leverage existing architectures and support the integrated fires construct with Shipboard Combat Systems providing non-kinetic engagement to enhance combat effectiveness. The system will be scalable, reconfigurable to mission, modular, remotable and dynamically reprogrammable in response to new threats and capabilities. The system is upgraded incrementally as improvements are developed. The SSEE INC G System will deliver improved information/cyber Warfare planning, exploitation, and attack capabilities across Naval platforms.

[P5 / 1U020 SSEE MODS Engineering Change Proposal - Ship]: Engineering Change Proposal (ECP)/Obsolescence procures Commercial Off-The-Shelf/Non-Developmental Item (COTS/NDI) equipment to replace obsolete and end-of-life (EOL) equipment for the Ship's Signal Exploitation Equipment (SSEE) MODS program. ECP incorporates Pre-Planned Product Improvements (P3I) for the acquisition and localization of the latest Signals of Interest (SOI) and Information Operations (IO). ECP maintains and improves upon SSEE MODS capability and relevance within a rapidly evolving threat environment.

[P3A / 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship]: ECP/Obsolescence procures Commercial Off-The-Shelf/Non-Developmental Item (COTS/NDI) equipment to replace obsolete and unsupportable equipment for the Ships Signal Exploitation Equipment (SSEE) Increment (Inc) E program and incorporates Pre-Planned Product Improvements (P3I) for the acquisition and localization of Signals of Interest (SOI) and Electronic Warfare (EW). These changes allow for a common logistic support baseline and provide the hardware and software to incorporate P3I/new COTS base technologies. Specifically, this funds field change kits/ECPs that may also include all or some of the following upgrades; Tapered Slot Antennas (TSA), Hostile Force Integration Targeting Subsystems (HITS) hosted on Digital Receiver Technology (DRT), Radio Frequency Distribution Unit (RFDU) Backfits, Digital Tuners, Global Positioning System (GPS) Selective Availability Anti-Spoofing Modules (SAASM), various antenna types, various hardware (to include blade servers) and software upgrades, and equipment to provide Information Operation (IO)/EW acquisition capabilities and localization of modern threat communications and SOI.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 5: Reconnaissance Equipment		P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
[P3A - 2 / 1U017 SSEE Increment F Ship]: The SSEE Inc F program is an incremental acquisition, COTS/GOTS program designed as the building block to improve the Information Warfare (IW) exploitation / IO / non-kinetic and subsequent tactical cryptologic capability across Navy surface combatant platforms. SSEE Inc F provides the afloat IW / cryptologist with IO / non-kinetic capabilities and subsequent threat identification and analysis of Communications Intelligence as well as queuing of radio direction finding assets. Equipment includes receivers, Radio Frequency management systems, recorders, audio distribution systems, computers, antennas and ancillary hardware. The system is upgraded incrementally as improvements are developed. SSEE Inc F employs the Maritime Cryptologic Strategy for the 21st century concept of a single core architecture that is easily modernized and scaled in capability. The system design permits the rapid insertion of new and emerging P3I to address the evolving threat. The system utilizes generic processor technology to counteract obsolescence issues with digital signal processing / field programmable gate array technologies and provide software receivers for ease of modification to deal with known and projected threat SOI. Automated signal acquisition and integrated radio direction finding are incorporated into the SSEE Inc F system. [P3A - 4 / 1U018/1U019 Paragon-Graywing]: Paragon is a classified Navy tactical signals intelligence frequency extension capability that will be integrated into SSEE systems. This capability provides simultaneous detection, collection, processing, IO and display of communication intelligence data from hostile, high threat and adversary platforms in select frequency ranges that are not prosecuted or countered today. Graywing is an advanced common data link system that will be integrated into SSEE systems. It is a critical component of "Ballistic Missile Defense, Executive Committee, Anti-Submarine Warfare, Chief of Naval Operations, Executive Board IO Countermeasure Red Flash" initiative (details held at a higher classification level). [P3A - 6 / 1U014 Engineering Change Proposal (ECP) Increment F]: Engineering Change Proposal (ECP)/Obsolescence procures Commercial Off-The-Shelf/Non-Developmental Item (COTS/NDI) equipment to replace obsolete and end-of-life (EOL) equipment for the Ship's Signal Exploitation Equipment (SSEE) Increment F program. ECP incorporates P3I for the acquisition and localization of the latest Signals of Interest (SOI) and Information Operations (IO). ECP maintains and improves upon SSEE INC F's capability and relevance within a rapidly evolving threat environment.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 5: Reconnaissance Equipment				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Shipboard IW Exploit	P-5, P-5a		- / 10.639	- / 0.845	- / 0.855	- / 0.872	- / -	- / 0.872
1 / 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship (Upgrade)	P-3a		- / 341.078	- / 12.447	- / 13.986	- / 8.421	- / -	- / 8.421
2 / 1U017 SSEE Increment F Ship ()	P-3a		- / 224.008	- / 48.387	- / 84.017	- / 82.112	- / -	- / 82.112
3 / 1U017 SSEE Inc F - Shore ()	P-3a		- / 42.578	- / 7.388	- / 6.639	- / 0.880	- / -	- / 0.880
4 / 1U018/1U019 Paragon-Graywing (Upgrade)	P-3a		- / 2.376	- / 19.094	- / 9.647	- / 37.299	- / -	- / 37.299
5 / 1U018/19 Paragon-Graywing Shore (Upgrade)	P-3a		- / 2.176	- / 12.575	- / 1.204	- / 12.351	- / -	- / 12.351
6 / 1U014 Engineering Change Proposal (ECP) Increment F (Upgrade)	P-3a		- / 8.224	- / -	- / 7.014	- / 6.286	- / -	- / 6.286
Total Gross/Weapon System Cost			- / 631.079	- / 100.736	- / 123.362	- / 148.221	- / -	- / 148.221
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / Shipboard IW Exploit	P-5, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship (Upgrade)	P-3a		- / 4.300	- / 5.471	- / 5.053	- / 5.068	- / -	- / 395.824
2 / 1U017 SSEE Increment F Ship ()	P-3a		- / 77.728	- / 71.795	- / 90.493	- / 20.529	- / -	- / 699.069
3 / 1U017 SSEE Inc F - Shore ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 57.485
4 / 1U018/1U019 Paragon-Graywing (Upgrade)	P-3a		- / 66.851	- / 70.280	- / 81.685	- / 84.598	- / -	- / 371.830
5 / 1U018/19 Paragon-Graywing Shore (Upgrade)	P-3a		- / 6.997	- / 2.878	- / 0.543	- / -	- / -	- / 38.724
6 / 1U014 Engineering Change Proposal (ECP) Increment F (Upgrade)	P-3a		- / 3.089	- / 4.278	- / 3.907	- / 5.166	- / -	- / 37.964
Total Gross/Weapon System Cost			- / 169.819	- / 163.988	- / 186.667	- / 190.437	- / -	- / 1,714.309
*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 add due to rounding.								
Justification: PROCUREMENT DATA: FY16 funding will procure: SSEE INC F: (7) SSEE Inc F Systems Information Warfare (IW): (1) Training Unit (Simulator) SSEE INC F ECP: (7) Processing Upgrades; (7) SSEE INC F DRTs; (10) Red Falcon SSEE INC E: (3) Medusa; (2) Field Change Kits; (8) Digital Tuners; (2) Digital Receiver Technology SSEE Modifications: (6) Graywing Systems (1) Training Device								

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Exhibit P-5, Cost Analysis: PB 2016 Navy								Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Item Number / Title [DODIC]: 1 / Shipboard IW Exploit										
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)		10.639	0.845	0.855	0.872	-	0.872	-	-	-	-	-	-					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) (\$ in Millions)		10.639	0.845	0.855	0.872	-	0.872	-	-	-	-	-	-					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		10.639	0.845	0.855	0.872	-	0.872	-	-	-	-	-	-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-	-	-	-	-	-	-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - 1U029 Information Warfare (IW) Training Equipment Cost																		
Recurring Cost																		
1.1.1) Information Warfare (IW) Training Equipment ^(†)	818.385	13	10.639	845.000	1	0.845	855.000	1	0.855	872.000	1	0.872	-	-	-	872.000	1	0.872
Subtotal: Recurring Cost	-	-	10.639	-	-	0.845	-	-	0.855	-	-	0.872	-	-	-	-	-	0.872
Subtotal: Hardware - 1U029 Information Warfare (IW) Training Equipment Cost	-	-	10.639	-	-	0.845	-	-	0.855	-	-	0.872	-	-	-	-	-	0.872
Gross/Weapon System Cost	-	-	10.639	-	-	0.845	-	-	0.855	-	-	0.872	-	-	-	-	-	0.872
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - 1U029 Information Warfare (IW) Training Equipment Cost																		
Recurring Cost																		
1.1.1) Information Warfare (IW) Training Equipment ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5						P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit							Item Number / Title [DODIC]: 1 / Shipboard IW Exploit					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Hardware - 1U029 Information Warfare (IW) Training Equipment Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5			P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit					Item Number / Title [DODIC]: 1 / Shipboard IW Exploit				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) Information Warfare (IW) Training Equipment		2014	SSC PAC / San Diego, CA	WR	San Diego, CA	Nov 2013	Aug 2014	1	845.000	Y		
1.1.1) Information Warfare (IW) Training Equipment		2015	SSC PAC / San Diego, CA	WR	San Diego, CA	Nov 2014	Aug 2015	1	855.000	Y		
1.1.1) Information Warfare (IW) Training Equipment		2016	SSC PAC / San Diego, CA	WR	San Diego	Nov 2015	Aug 2016	1	872.000	Y		

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Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 1 / 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	341.078	12.447	13.986	8.421	-	8.421	4.300	5.471	5.053	5.068	-	395.824
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	341.078	12.447	13.986	8.421	-	8.421	4.300	5.471	5.053	5.068	-	395.824
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	341.078	12.447	13.986	8.421	-	8.421	4.300	5.471	5.053	5.068	-	395.824
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Engineering Change Proposal (ECP)/Obsolescence procures Commercial Off-The-Shelf/Non-Developmental Item (COTS/NDI) equipment to replace obsolete, end of life and unsupportable equipment for the Ships Signal Exploitation Equipment (SSEE) Increment E program. ECP incorporates Pre-Planned Product Improvements (P3I) for the acquisition and localization of the latest, fleet-defined and prioritized Signals of Interest (SOI) and Information Operations (IO). ECP changes allow for a common logistic support baseline and provide the hardware and software to incorporate P3I/new COTS base technologies.

[Digital Receiver Technology (DRT)] DRTs to be installed in conjunction with SSEE Inc E Group II (A) Field Change Kit as Kits.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 1 / 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship					
Models of Systems Affected: Various				Modification Type: Upgrade				Related RDT&E PEs: 0304785N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship													
B Kits													
Recurring													
1.1.1) SSEE Inc E ECP's (Prior Year) - NonOrganic	35 / 232.792	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 232.792	
1.1.2) SSEE Inc E Group II (A) Field Change Kit - NonOrganic ⁽¹⁾	39 / 33.137	8 / 1.395	8 / 1.356	2 / 0.380	- / -	2 / 0.380	- / -	- / -	- / -	- / -	- / -	57 / 36.268	
1.1.3) SSEE Inc E Group III (Antenna Upgrades) - NonOrganic	20 / 8.760	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 8.760	
1.1.4) Digital Receiver Technology (DRT) - Organic	- / -	10 / 4.950	12 / 6.000	2 / 1.016	- / -	2 / 1.016	- / -	- / -	- / -	- / -	- / -	24 / 11.966	
1.1.5) MEDUSA - NonOrganic	25 / 8.500	7 / 1.820	6 / 1.620	3 / 0.840	- / -	3 / 0.840	- / -	- / -	- / -	- / -	- / -	41 / 12.780	
1.1.6) MEDUSA - Non Installed - Organic	5 / 2.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.500	
1.1.7) Digital Tuner ECP - NonOrganic	- / -	- / -	10 / 0.890	8 / 0.728	- / -	8 / 0.728	9 / 0.873	9 / 0.918	7 / 0.728	8 / 0.856	- / -	51 / 4.993	
1.1.8) Red Falcon - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.372	9 / 1.710	7 / 1.365	8 / 1.600	- / -	26 / 5.047	
Subtotal: Recurring	- / 285.689	- / 8.165	- / 9.866	- / 2.964	- / -	- / 2.964	- / 1.245	- / 2.628	- / 2.093	- / 2.456	- / -	- / 315.106	
Subtotal: 1U013 Engineering Change Proposal (ECP)/ Obsolescence Ship	124 / 285.689	25 / 8.165	36 / 9.866	15 / 2.964	- / -	15 / 2.964	11 / 1.245	18 / 2.628	14 / 2.093	16 / 2.456	- / -	259 / 315.106	
Subtotal: Procurement, All Modification Items	- / 285.689	- / 8.165	- / 9.866	- / 2.964	- / -	- / 2.964	- / 1.245	- / 2.628	- / 2.093	- / 2.456	- / -	- / 315.106	
Support (All Modification Items)													
2.1) Production Support	- / 1.781	- / 0.490	- / 0.592	- / 0.178	- / -	- / 0.178	- / 0.075	- / 0.255	- / 0.169	- / 0.199	- / -	- / 3.739	
2.2) DSA - Ship	- / 2.198	- / 0.920	- / 1.278	- / 1.139	- / -	- / 1.139	- / 0.778	- / 0.775	- / 0.730	- / 0.754	- / -	- / 8.572	
Subtotal: Support	- / 3.979	- / 1.410	- / 1.870	- / 1.317	- / -	- / 1.317	- / 0.853	- / 1.030	- / 0.899	- / 0.953	- / -	- / 12.311	
Installation													
Modification Item 1 of 1: 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship	- / 51.410	- / 2.872	- / 2.250	- / 4.140	- / -	- / 4.140	- / 2.202	- / 1.813	- / 2.061	- / 1.659	- / -	- / 68.407	
Subtotal: Installation	- / 51.410	- / 2.872	- / 2.250	- / 4.140	- / -	- / 4.140	- / 2.202	- / 1.813	- / 2.061	- / 1.659	- / -	- / 68.407	
Total													
Total Cost (Procurement + Support + Installation)	341.078	12.447	13.986	8.421	-	8.421	4.300	5.471	5.053	5.068	-	395.824	

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Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 1 / 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship					
Modification Item 1 of 1: 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship													
Manufacturer Information													
Manufacturer Name: TICOM-SSEE Inc E DRTs							Manufacturer Location: TX						
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates	Jan 2014	Jan 2015	Jan 2016										
Delivery Dates	Jan 2015	Jan 2016	Jan 2017										
Manufacturer Name: SSC LANT/Various-SSEE Inc E Grp II(A)							Manufacturer Location: Charleston, SC						
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates	Jun 2014	Jan 2015	Jan 2016										
Delivery Dates	Jun 2015	Jan 2016	Jan 2017										
Manufacturer Name: SSC LANT/Various-MEDUSA							Manufacturer Location: Charleston, SC						
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates	Jun 2014	Jan 2015	Jan 2016										
Delivery Dates	Jun 2015	Jan 2016	Jan 2017										
Manufacturer Name: ARGON - ECP INC E Digital Tuners							Manufacturer Location: Fairfax, VA						
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates		Jan 2015	Jan 2016										
Delivery Dates		Jan 2016	Jan 2017										
Installation Information													
Method of Implementation: IMO:: Installation Name: ECP/OBSOLESCENCE													
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Prior Years	98 / 51.410	21 / 2.872	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	119 / 54.282	
FY 2014	- / -	- / -	15 / 2.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.250	
FY 2015	- / -	- / -	- / -	14 / 2.240	- / -	14 / 2.240	- / -	- / -	- / -	- / -	- / -	14 / 2.240	
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.658	- / -	- / -	- / -	- / -	5 / 0.658	
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.058	- / -	- / -	- / -	2 / 0.058	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5		P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit			Modification Number / Title: 1 / 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship		

Modification Item 1 of 1: 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship

Installation Information

Method of Implementation: IMO:: Installation Name: ECP/OBSOLESCENCE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.279	- / -	- / -	9 / 0.279
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.231	- / -	7 / 0.231
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / -	8 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	98 / 51.410	21 / 2.872	15 / 2.250	14 / 2.240	- / -	14 / 2.240	5 / 0.658	2 / 0.058	9 / 0.279	7 / 0.231	8 / -	179 / 59.998

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	89	9	4	3	10	4	2	4	8	1	4	5	2	3	1	2	2	-	-	2	-	-	-	3	3	3	-	4	3	8	179
Out	80	18	-	3	3	15	-	1	2	12	1	5	4	4	-	1	2	2	-	2	-	-	-	3	3	3	-	4	3	8	179

Method of Implementation: Ship:: Installation Name: Digital Tuner ECP

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	10 / 1.900	- / -	10 / 1.900	- / -	- / -	- / -	- / -	- / -	10 / 1.900
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	8 / 1.544	- / -	- / -	- / -	- / -	8 / 1.544
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.755	- / -	- / -	- / -	9 / 1.755
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.782	- / -	- / -	9 / 1.782
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.428	- / -	7 / 1.428
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / -	8 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	10 / 1.900	- / -	10 / 1.900	8 / 1.544	9 / 1.755	9 / 1.782	7 / 1.428	8 / -	51 / 8.409

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015																																																																																																																								
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5	P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit	Modification Number / Title: 1 / 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship																																																																																																																								
Modification Item 1 of 1: 1U013 Engineering Change Proposal (ECP)/Obsolescence Ship																																																																																																																										
Installation Information																																																																																																																										
Method of Implementation: Ship:: Installation Name: Digital Tuner ECP																																																																																																																										
Installation Schedule																																																																																																																										
	PYS	<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="4">FY 2014</th> <th colspan="4">FY 2015</th> <th colspan="4">FY 2016</th> <th colspan="4">FY 2017</th> <th colspan="4">FY 2018</th> <th colspan="4">FY 2019</th> <th colspan="4">FY 2020</th> <th rowspan="2">TC</th> <th rowspan="2">Tot</th> </tr> <tr> <th>Q1</th><th>Q2</th><th>Q3</th><th>Q4</th> <th>Q1</th><th>Q2</th><th>Q3</th><th>Q4</th> <th>Q1</th><th>Q2</th><th>Q3</th><th>Q4</th> <th>Q1</th><th>Q2</th><th>Q3</th><th>Q4</th> <th>Q1</th><th>Q2</th><th>Q3</th><th>Q4</th> <th>Q1</th><th>Q2</th><th>Q3</th><th>Q4</th> <th>Q1</th><th>Q2</th><th>Q3</th><th>Q4</th> </tr> </thead> <tbody> <tr> <td>In</td> <td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>4</td><td>1</td><td>3</td><td>2</td><td>-</td><td>3</td><td>3</td><td>2</td><td>3</td><td>3</td><td>3</td><td>-</td><td>3</td><td>3</td><td>3</td><td>-</td><td>3</td><td>3</td><td>1</td><td>8</td><td>51</td> </tr> <tr> <td>Out</td> <td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>2</td><td>2</td><td>3</td><td>2</td><td>3</td><td>3</td><td>2</td><td>3</td><td>3</td><td>3</td><td>-</td><td>3</td><td>3</td><td>3</td><td>-</td><td>3</td><td>3</td><td>1</td><td>8</td><td>51</td> </tr> </tbody> </table>	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	In	-	-	-	-	-	-	-	-	-	4	1	3	2	-	3	3	2	3	3	3	-	3	3	3	-	3	3	1	8	51	Out	-	-	-	-	-	-	-	-	-	1	2	2	3	2	3	3	2	3	3	3	-	3	3	3	-	3	3	1	8	51
FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot																																																																																													
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4																																																																																															
In	-	-	-	-	-	-	-	-	-	4	1	3	2	-	3	3	2	3	3	3	-	3	3	3	-	3	3	1	8	51																																																																																												
Out	-	-	-	-	-	-	-	-	-	1	2	2	3	2	3	3	2	3	3	3	-	3	3	3	-	3	3	1	8	51																																																																																												
Method of Implementation (Organic): Not Installed - Digital Receiver Technology (DRT)		Installation Quantity: 24																																																																																																																								
Method of Implementation (Organic): Not Installed - MEDUSA - Non Installed		Installation Quantity: 5																																																																																																																								
Footnotes: ⁽¹⁾ ECP equipment being procured supports SSEE Inc E. ECPs are then grouped into "Field Change Kits" based on configuration of the lot and/or variant being upgraded for installation. Unit cost listed above is the average unit cost, which ranges from \$.150M to \$.224M. Average unit cost fluctuations are attributable to variances in system configuration requirements among platforms. SSEE INC E consists of 6 variants on 9 different platform types. Additionally, older SSEE INC E variants will require additional equipment to bring the system up to the latest baseline. SSEE E Group II (A) Field Change Kits (FCK) include "H" and "S" blade servers as part of the FCK. Installation quantities may reflect multiple ECP Procurements based on ship configuration. First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability.																																																																																																																										

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit					Modification Number / Title: 2 / 1U017 SSEE Increment F Ship			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	224.008	48.387	84.017	82.112	-	82.112	77.728	71.795	90.493	20.529	-	699.069
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	224.008	48.387	84.017	82.112	-	82.112	77.728	71.795	90.493	20.529	-	699.069
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	224.008	48.387	84.017	82.112	-	82.112	77.728	71.795	90.493	20.529	-	699.069
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Ship Signal Exploitation Equipment (SSEE) Inc F Program will provide strike groups with Information Operation (IO) / non-kinetic capabilities and the subsequent ability to exploit Signals Of Interest (SOI) by providing a state-of-the-art system which detects, acquires, and collects data on any potential threat.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 2 / 1U017 SSEE Increment F Ship					
Models of Systems Affected:			Modification Type:					Related RDT&E PEs: 0304785N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 1U017 SSEE Increment F Ship													
B Kits													
Recurring													
1.1.1) Inc F Systems (Ship) - NonOrganic (2)	24 / 173.662	4 / 28.352	10 / 66.390	7 / 56.070	- / -	7 / 56.070	7 / 57.022	6 / 51.228	6 / 52.098	- / -	- / -	64 / 484.822	
1.1.2) SSEE Increment F DDG 119, 120 Procurement - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 18.000	- / -	- / -	2 / 18.000	
Subtotal: Recurring	- / 173.662	- / 28.352	- / 66.390	- / 56.070	- / -	- / 56.070	- / 57.022	- / 51.228	- / 70.098	- / -	- / -	- / 502.822	
Subtotal: 1U017 SSEE Increment F Ship	24 / 173.662	4 / 28.352	10 / 66.390	7 / 56.070	- / -	7 / 56.070	7 / 57.022	6 / 51.228	8 / 70.098	- / -	- / -	66 / 502.822	
Subtotal: Procurement, All Modification Items	- / 173.662	- / 28.352	- / 66.390	- / 56.070	- / -	- / 56.070	- / 57.022	- / 51.228	- / 70.098	- / -	- / -	- / 502.822	
Support (All Modification Items)													
2.1) Production Support (Ship)	- / 11.745	- / 1.817	- / 4.382	- / 3.140	- / -	- / 3.140	- / 3.276	- / 3.073	- / 2.865	- / 0.108	- / -	- / 30.406	
2.2) Production Support (DDG 119, 120 Procurement)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.276	- / -	- / -	- / 1.276	
2.3) DSA (Ship)	- / 8.701	- / 2.674	- / 3.365	- / 3.702	- / -	- / 3.702	- / 3.192	- / 3.011	- / 3.106	- / 3.159	- / -	- / 30.910	
2.4) DSA (Ship - DDG 119, 120 Procurement)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.524	- / 0.430	- / -	- / 0.954	
Subtotal: Support	- / 20.446	- / 4.491	- / 7.747	- / 6.842	- / -	- / 6.842	- / 6.468	- / 6.084	- / 7.771	- / 3.697	- / -	- / 63.546	
Installation													
Modification Item 1 of 1: 1U017 SSEE Increment F Ship	- / 29.900	- / 15.544	- / 9.880	- / 19.200	- / -	- / 19.200	- / 14.238	- / 14.483	- / 12.624	- / 16.832	- / -	- / 132.701	
Subtotal: Installation	- / 29.900	- / 15.544	- / 9.880	- / 19.200	- / -	- / 19.200	- / 14.238	- / 14.483	- / 12.624	- / 16.832	- / -	- / 132.701	
Total													
Total Cost (Procurement + Support + Installation)	224.008	48.387	84.017	82.112	-	82.112	77.728	71.795	90.493	20.529	-	699.069	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5										P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit										Modification Number / Title: 2 / 1U017 SSEE Increment F Ship											
Modification Item 1 of 1: 1U017 SSEE Increment F Ship																															
Manufacturer Information																															
Manufacturer Name: ARGON - SSEE INC F FRP															Manufacturer Location: Fairfax, VA																
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 12																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Dec 2013				Dec 2014				Jan 2016																					
Delivery Dates		Dec 2014				Dec 2015				Jan 2017																					
Installation Information																															
Method of Implementation: Ship:: Installation Name: Inc F Systems (Ship)																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		15 / 29.900	8 / 15.544	1 / 1.976	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 47.420																		
FY 2014		- / -	- / -	4 / 7.904	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 7.904																		
FY 2015		- / -	- / -	- / -	10 / 19.200	- / -	10 / 19.200	- / -	- / -	- / -	- / -	- / -	10 / 19.200																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	7 / 14.238	- / -	- / -	- / -	- / -	7 / 14.238																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 14.483	- / -	- / -	- / -	7 / 14.483																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 12.624	- / -	- / -	6 / 12.624																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 12.624	- / -	6 / 12.624																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		15 / 29.900	8 / 15.544	5 / 9.880	10 / 19.200	- / -	10 / 19.200	7 / 14.238	7 / 14.483	6 / 12.624	6 / 12.624	- / -	64 / 128.493																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	13	2	1	1	3	3	1	1	1	2	3	3	3	1	2	3	1	1	-	3	3	1	2	2	2	-	2	2	2	-	64
Out	13	2	1	1	3	3	1	1	1	2	-	3	2	5	-	2	1	4	-	-	3	4	2	2	2	-	2	2	2	-	64
Method of Implementation: Ship:: Installation Name: SSEE Increment F DDG 119, 120 Procurement																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5	P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit	Modification Number / Title: 2 / 1U017 SSEE Increment F Ship

Modification Item 1 of 1: 1U017 SSEE Increment F Ship

Installation Information

Method of Implementation: Ship:: Installation Name: SSEE Increment F DDG 119, 120 Procurement

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.208	- / -	2 / 4.208
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.208	- / -	2 / 4.208

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2

Footnotes:

(2) Unit Cost fluctuation from FY15 to FY16 is due to the procurement of 3 SSEE Inc. F, 3 Rack, "Small Footprint" systems in FY15 for install on DDG Flight I ships vice the full 7 Rack Inc. F system. First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit					Modification Number / Title: 3 / 1U017 SSEE Inc F - Shore			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	42.578	7.388	6.639	0.880	-	0.880	-	-	-	-	-	57.485
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	42.578	7.388	6.639	0.880	-	0.880	-	-	-	-	-	57.485
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	42.578	7.388	6.639	0.880	-	0.880	-	-	-	-	-	57.485
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Ship Signal Exploitation Equipment (SSEE) Program will provide strike groups with Information Operation (IO) / non-kinetic capabilities and the subsequent ability to exploit Signals Of Interest (SOI) by providing a state-of-the-art system which detects, acquires, and collects data on any potential threat.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 3 / 1U017 SSEE Inc F - Shore					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0304785N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 1U017 SSEE Inc F - Shore													
B Kits													
Recurring													
1.1.1) SSEE Inc F - Shore - NonOrganic	4 / 28.296	- / -	1 / 6.639	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 34.935	
1.1.2) Training Equipment - Training Simulators - NonOrganic	4 / 9.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 9.400	
1.1.3) SSEE Inc F - Shore Non Installed - Organic ⁽³⁾	- / -	1 / 7.088	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 7.088	
Subtotal: Recurring	- / 37.696	- / 7.088	- / 6.639	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.423	
Subtotal: 1U017 SSEE Inc F - Shore	8 / 37.696	1 / 7.088	1 / 6.639	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 51.423	
Subtotal: Procurement, All Modification Items	- / 37.696	- / 7.088	- / 6.639	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.423	
Support (All Modification Items)													
2.1) Production Support	- / 1.672	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.972	
Subtotal: Support	- / 1.672	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.972	
Installation													
Modification Item 1 of 1: 1U017 SSEE Inc F - Shore	- / 3.210	- / -	- / -	- / 0.880	- / -	- / 0.880	- / -	- / -	- / -	- / -	- / -	- / 4.090	
Subtotal: Installation	- / 3.210	- / -	- / -	- / 0.880	- / -	- / 0.880	- / -	- / -	- / -	- / -	- / -	- / 4.090	
Total													
Total Cost (Procurement + Support + Installation)	42.578	7.388	6.639	0.880	-	0.880	-	-	-	-	-	57.485	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5	P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit	Modification Number / Title: 3 / 1U017 SSEE Inc F - Shore

Modification Item 1 of 1: 1U017 SSEE Inc F - Shore

Manufacturer Information

Manufacturer Name: ARGON - SSEE INC F FRP	Manufacturer Location: Fairfax, VA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013						
Delivery Dates	Dec 2014						

Installation Information

Method of Implementation: IMO:: Installation Name: SSEE INC F Shore

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	8 / 3.210	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.210
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	1 / 0.880	- / -	1 / 0.880	- / -	- / -	- / -	- / -	- / -	1 / 0.880
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	8 / 3.210	- / -	- / -	1 / 0.880	- / -	1 / 0.880	- / -	- / -	- / -	- / -	- / -	9 / 4.090

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Out	7	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9

Method of Implementation (Organic): Not Installed - SSEE Inc F - Shore Non Installed

Installation Quantity: 1

Footnotes:

⁽³⁾ FY14 system will be used as a Training Device at manufacturer's location and will not have installation costs associated with it.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 4 / 1U018/1U019 Paragon-Graywing			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2.376	19.094	9.647	37.299	-	37.299	66.851	70.280	81.685	84.598	-	371.830
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2.376	19.094	9.647	37.299	-	37.299	66.851	70.280	81.685	84.598	-	371.830
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2.376	19.094	9.647	37.299	-	37.299	66.851	70.280	81.685	84.598	-	371.830
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Paragon is a classified Navy tactical signals intelligence frequency extension capability that will be integrated into Ship Signal Exploitation Equipment (SSEE) systems. This capability provides simultaneous detection, collection, processing, Information Operations and display of communication intelligence data from hostile, high threat and adversary platforms in select frequency ranges that are not prosecuted or countered today. Graywing is an advanced common data link system that will be integrated into SSEE Inc E and Inc F systems. It is a critical component of "Ballistic Missile Defense, Executive Committee, Anti-Submarine Warfare, Chief of Naval Operations, Executive Board Information Operation (IO) Countermeasure Red Flash" (details held at a higher classification level).

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 4 / 1U018/1U019 Paragon-Graywing					
Models of Systems Affected: Various				Modification Type: Upgrade				Related RDT&E PEs: 0304785N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 1U018/1U019 Paragon-Graywing													
B Kits													
Recurring													
1.1.1) Paragon - Organic ⁽⁴⁾	- / -	2 / 8.828	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 8.828	
1.1.2) Graywing - NonOrganic ⁽⁵⁾	- / -	2 / 8.828	1 / 7.250	5 / 31.000	- / -	5 / 31.000	9 / 56.763	8 / 51.272	9 / 58.653	9 / 59.643	- / -	43 / 273.409	
1.1.3) LRIP Retrofit Kit - NonOrganic	1 / 2.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.100	
Subtotal: Recurring	- / 2.100	- / 17.656	- / 7.250	- / 31.000	- / -	- / 31.000	- / 56.763	- / 51.272	- / 58.653	- / 59.643	- / -	- / 284.337	
Subtotal: 1U018/1U019 Paragon-Graywing	1 / 2.100	4 / 17.656	1 / 7.250	5 / 31.000	- / -	5 / 31.000	9 / 56.763	8 / 51.272	9 / 58.653	9 / 59.643	- / -	46 / 284.337	
Subtotal: Procurement, All Modification Items	- / 2.100	- / 17.656	- / 7.250	- / 31.000	- / -	- / 31.000	- / 56.763	- / 51.272	- / 58.653	- / 59.643	- / -	- / 284.337	
Support (All Modification Items)													
2.1) Production Support	- / 0.076	- / 0.988	- / 1.027	- / 2.424	- / -	- / 2.424	- / 3.271	- / 3.182	- / 3.271	- / 3.579	- / -	- / 17.818	
2.2) DSA	- / 0.200	- / 0.450	- / 0.545	- / 0.803	- / -	- / 0.803	- / 2.209	- / 3.330	- / 3.871	- / 3.600	- / -	- / 15.008	
Subtotal: Support	- / 0.276	- / 1.438	- / 1.572	- / 3.227	- / -	- / 3.227	- / 5.480	- / 6.512	- / 7.142	- / 7.179	- / -	- / 32.826	
Installation													
Modification Item 1 of 1: 1U018/1U019 Paragon-Graywing	- / 0.000	- / -	- / 0.825	- / 3.072	- / -	- / 3.072	- / 4.608	- / 12.496	- / 15.890	- / 17.776	- / -	- / 54.667	
Subtotal: Installation	- / 0.000	- / -	- / 0.825	- / 3.072	- / -	- / 3.072	- / 4.608	- / 12.496	- / 15.890	- / 17.776	- / -	- / 54.667	
Total													
Total Cost (Procurement + Support + Installation)	2.376	19.094	9.647	37.299	-	37.299	66.851	70.280	81.685	84.598	-	371.830	

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Exhibit P-3a, Individual Modification: PB 2016 Navy					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5			P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit			Modification Number / Title: 4 / 1U018/1U019 Paragon-Graywing	
Modification Item 1 of 1: 1U018/1U019 Paragon-Graywing							
Manufacturer Information							
Manufacturer Name: ARGON- LRIP LOT 2- SHIP				Manufacturer Location: Fairfax, VA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 15			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Apr 2014						
Delivery Dates	Jul 2015						
Manufacturer Name: SSC PAC- LRIP LOT 2 - SHIP				Manufacturer Location: San Diego, CA			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 15			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Feb 2014						
Delivery Dates	May 2015						
Manufacturer Name: Naval Research Lab - LRIP LOT 2 - SHIP				Manufacturer Location: Washington DC			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 15			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Feb 2014						
Delivery Dates	May 2015						
Manufacturer Name: ARGON - Graywing LRIP - SHIP				Manufacturer Location: Fairfax, VA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Jan 2015					
Delivery Dates		Jun 2016					
Manufacturer Name: Naval Research Lab - Graywing LRIP - SHIP				Manufacturer Location: Washington DC			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Jan 2015					
Delivery Dates		Jun 2016					
Manufacturer Name: ARGON - Graywing FRP - SHIP				Manufacturer Location: Fairfax, VA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Jan 2016				
Delivery Dates			Jun 2017				

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 4 / 1U018/1U019 Paragon-Graywing			

Modification Item 1 of 1: 1U018/1U019 Paragon-Graywing

Installation Information

Method of Implementation: Ship:: Installation Name: Graywing

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	2 / 3.072	- / -	2 / 3.072	- / -	- / -	- / -	- / -	- / -	2 / 3.072
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.536	- / -	- / -	- / -	- / -	1 / 1.536
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.072	3 / 4.686	- / -	- / -	- / -	5 / 7.758
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 7.810	4 / 6.356	- / -	- / -	9 / 14.166
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 9.534	2 / 3.232	- / -	8 / 12.766
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 14.544	- / -	9 / 14.544
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / -	9 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	2 / 3.072	- / -	2 / 3.072	3 / 4.608	8 / 12.496	10 / 15.890	11 / 17.776	9 / -	43 / 53.842

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	1	1	2	1	3	2	2	2	3	3	2	-	5	13	43
Out	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	1	1	2	1	3	2	2	2	3	3	1	1	5	13	43

Method of Implementation: Ship:: Installation Name: LRIP Retrofit Kit

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	1 / 0.825	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.825
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 0.825	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.825

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Exhibit P-3a, Individual Modification: PB 2016 Navy																							Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5										P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit										Modification Number / Title: 4 / 1U018/1U019 Paragon-Graywing											
Modification Item 1 of 1: 1U018/1U019 Paragon-Graywing																															
Installation Information																															
Method of Implementation: Ship:: Installation Name: LRIP Retrofit Kit																															
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Out	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		
Method of Implementation (Organic): Not Installed - Paragon																							Installation Quantity: 2								
Footnotes: ⁽⁴⁾ FY14 reflects Paragon and Graywing systems housed in separate hardware and installed concurrently. Beginning in FY15, Paragon capabilities are collapsed into Graywing hardware resulting in cost efficiencies. ⁽⁵⁾ First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability.																															

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 5 / 1U018/19 Paragon-Graywing Shore			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2.176	12.575	1.204	12.351	-	12.351	6.997	2.878	0.543	-	-	38.724
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2.176	12.575	1.204	12.351	-	12.351	6.997	2.878	0.543	-	-	38.724
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2.176	12.575	1.204	12.351	-	12.351	6.997	2.878	0.543	-	-	38.724
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Paragon is a classified Navy tactical signals intelligence frequency extension capability that will be integrated into Ship Signal Exploitation Equipment (SSEE) systems. This capability provides simultaneous detection, collection, processing, Information Operations and display of communication intelligence data from hostile, high threat and adversary platforms in select frequency ranges that are not prosecuted or countered today. Graywing is an advanced common data link system that will be integrated into SSEE Inc E and Inc F systems. It is a critical component of "Ballistic Missile Defense, Executive Committee, Anti-Submarine Warfare, Chief of Naval Operations, Executive Board Information Operation (IO) Countermeasure Red Flash" (details held at a higher classification level).
Shore based sites to be used for maintenance and operator training systems.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 5 / 1U018/19 Paragon-Graywing Shore					
Models of Systems Affected: Various				Modification Type: Upgrade				Related RDT&E PEs: 0304785N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 1U018/19 Paragon-Graywing Shore													
B Kits													
Recurring													
1.1.1) LBTF Paragon Configuration System - Organic	- / -	2 / 5.954	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.954	
1.1.2) Graywing - NonOrganic ⁽⁶⁾	- / -	- / -	- / -	1 / 6.200	- / -	1 / 6.200	- / -	- / -	- / -	- / -	- / -	1 / 6.200	
1.1.3) LBTF Graywing Configuration System - NonOrganic ⁽⁷⁾	- / -	2 / 5.954	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.954	
1.1.4) LRIP Retrofit Kit - NonOrganic	1 / 2.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.100	
1.1.5) Maintenance Training System - NonOrganic ⁽⁸⁾	- / -	- / -	- / -	1 / 5.803	- / -	1 / 5.803	- / -	- / -	- / -	- / -	- / -	1 / 5.803	
1.1.6) Operator Training System - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.658	1 / 2.878	- / -	- / -	- / -	3 / 8.536	
Subtotal: Recurring	- / 2.100	- / 11.908	- / -	- / 12.003	- / -	- / 12.003	- / 5.658	- / 2.878	- / -	- / -	- / -	- / 34.547	
Subtotal: 1U018/19 Paragon-Graywing Shore	1 / 2.100	4 / 11.908	- / -	2 / 12.003	- / -	2 / 12.003	2 / 5.658	1 / 2.878	- / -	- / -	- / -	10 / 34.547	
Subtotal: Procurement, All Modification Items	- / 2.100	- / 11.908	- / -	- / 12.003	- / -	- / 12.003	- / 5.658	- / 2.878	- / -	- / -	- / -	- / 34.547	
Support (All Modification Items)													
2.1) Production Support	- / 0.076	- / 0.667	- / -	- / 0.348	- / -	- / 0.348	- / 0.339	- / -	- / -	- / -	- / -	- / 1.430	
Subtotal: Support	- / 0.076	- / 0.667	- / -	- / 0.348	- / -	- / 0.348	- / 0.339	- / -	- / -	- / -	- / -	- / 1.430	
Installation													
Modification Item 1 of 1: 1U018/19 Paragon-Graywing Shore	- / 0.000	- / -	- / 1.204	- / -	- / -	- / -	- / 1.000	- / -	- / 0.543	- / -	- / -	- / 2.747	
Subtotal: Installation	- / 0.000	- / -	- / 1.204	- / -	- / -	- / -	- / 1.000	- / -	- / 0.543	- / -	- / -	- / 2.747	
Total													
Total Cost (Procurement + Support + Installation)	2.176	12.575	1.204	12.351	-	12.351	6.997	2.878	0.543	-	-	38.724	

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Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 5 / 1U018/19 Paragon-Graywing Shore				
Modification Item 1 of 1: 1U018/19 Paragon-Graywing Shore												
Manufacturer Information												
Manufacturer Name: ARGON-LBTF Configuration - SHORE							Manufacturer Location: Fairfax, VA					
Administrative Leadtime (in Months): 9							Production Leadtime (in Months): 18					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Jul 2014											
Delivery Dates	Jan 2016											
Manufacturer Name: SSC PAC-LBTF Configuraton - SHORE							Manufacturer Location: San Diego, CA					
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 15					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Jan 2014											
Delivery Dates	Apr 2015											
Manufacturer Name: Naval Research Lab- LBTF Configuration - SHORE							Manufacturer Location: Washington DC					
Administrative Leadtime (in Months): 6							Production Leadtime (in Months): 15					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Apr 2014											
Delivery Dates	Jul 2015											
Installation Information												
Method of Implementation: Shore:: Installation Name: Graywing												
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.500	- / -	- / -	- / -	- / -	1 / 0.500
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.500	- / -	- / -	- / -	- / -	1 / 0.500

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5	P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit	Modification Number / Title: 5 / 1U018/19 Paragon-Graywing Shore

Modification Item 1 of 1: 1U018/19 Paragon-Graywing Shore

Installation Information

Method of Implementation: Shore:: Installation Name: Graywing

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Method of Implementation: Shore:: Installation Name: LBTF Graywing Configuration System

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	2 / 1.104	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.104
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 1.104	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.104

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
Out	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		

Method of Implementation: Shore:: Installation Name: LRIP Retrofit Kit

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	1 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.100
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5					P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit					Modification Number / Title: 5 / 1U018/19 Paragon-Graywing Shore			

Modification Item 1 of 1: 1U018/19 Paragon-Graywing Shore

Installation Information

Method of Implementation: Shore:: Installation Name: LRIP Retrofit Kit

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.100

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Method of Implementation: Shore:: Installation Name: Maintenance Training System

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.500	- / -	- / -	- / -	- / -	1 / 0.500
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.500	- / -	- / -	- / -	- / -	1 / 0.500

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Exhibit P-3a, Individual Modification: PB 2016 Navy															Date: February 2015									
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5										P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit										Modification Number / Title: 5 / 1U018/19 Paragon-Graywing Shore				

Modification Item 1 of 1: 1U018/19 Paragon-Graywing Shore

Installation Information

Method of Implementation: Shore:: Installation Name: Maintenance Training System

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Method of Implementation: Shore:: Installation Name: Operator Training System

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.362	- / -	- / -	2 / 0.362
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.181	- / -	- / -	1 / 0.181
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.543	- / -	- / -	3 / 0.543

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	3	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	3	

Method of Implementation (Organic): Not Installed - LBTF Paragon Configuration System

Installation Quantity: 2

Footnotes:

⁽⁶⁾ Paragon/Graywing will be installed together due to cost savings realized when installed concurrently.

⁽⁷⁾ FY14 and prior Paragon and Graywing capabilities are housed in separate hardware and installed concurrently. Beginning in FY15, Paragon capabilities are collapsed into Graywing hardware resulting in cost efficiencies.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5	P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit	Modification Number / Title: 5 / 1U018/19 Paragon-Graywing Shore
(8) Shore based sites to be used for maintenance and operator training systems.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit					Modification Number / Title: 6 / 1U014 Engineering Change Proposal (ECP) Increment F				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		8.224	-	7.014	6.286	-	6.286	3.089	4.278	3.907	5.166	-	37.964
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>		8.224	-	7.014	6.286	-	6.286	3.089	4.278	3.907	5.166	-	37.964
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		8.224	-	7.014	6.286	-	6.286	3.089	4.278	3.907	5.166	-	37.964
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Description: Engineering Change Proposal (ECP)/Obsolescence procures Commercial Off-The-Shelf/Non-Developmental Item (COTS/NDI) equipment to replace obsolete and end-of-life (EOL) equipment for the Ship's Signal Exploitation Equipment (SSEE) Increment F program. ECP incorporates Pre-Planned Product Improvements (P3I) for the acquisition and localization of the latest Signals of Interest (SOI) and Information Operations (IO). ECP maintains and improves upon SSEE INC F's capability and relevance within a rapidly evolving threat environment.													

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 6 / 1U014 Engineering Change Proposal (ECP) Increment F				
Models of Systems Affected: SSEE Inc F				Modification Type: Upgrade				Related RDT&E PEs: 0304785N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: 1U014 Engineering Change Proposal (ECP) Increment F												
B Kits												
Recurring												
1.1.1) Processing Upgrades (ECPs) - NonOrganic ⁽⁹⁾	- / -	- / -	- / -	7 / 0.686	- / -	7 / 0.686	9 / 0.927	12 / 1.284	9 / 0.981	14 / 1.582	- / -	51 / 5.460
1.1.2) CUB Replacement (Cryptologic Unified Build) - Organic	1 / 5.520	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.520
1.1.3) DRT - NonOrganic ⁽¹⁰⁾	- / -	- / -	- / -	7 / 0.616	- / -	7 / 0.616	9 / 0.837	12 / 1.164	9 / 0.891	14 / 1.442	- / -	51 / 4.950
1.1.4) LRIP to FRP BackFit Kit - NonOrganic	1 / 2.123	- / -	3 / 6.036	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 8.159
1.1.5) Red Falcon Upgrade Kits - NonOrganic ⁽¹¹⁾	- / -	- / -	- / -	10 / 1.630	- / -	10 / 1.630	- / -	- / -	- / -	- / -	- / -	10 / 1.630
Subtotal: Recurring	- / 7.643	- / -	- / 6.036	- / 2.932	- / -	- / 2.932	- / 1.764	- / 2.448	- / 1.872	- / 3.024	- / -	- / 25.719
Subtotal: 1U014 Engineering Change Proposal (ECP) Increment F	2 / 7.643	- / -	3 / 6.036	24 / 2.932	- / -	24 / 2.932	18 / 1.764	24 / 2.448	18 / 1.872	28 / 3.024	- / -	117 / 25.719
Subtotal: Procurement, All Modification Items	- / 7.643	- / -	- / 6.036	- / 2.932	- / -	- / 2.932	- / 1.764	- / 2.448	- / 1.872	- / 3.024	- / -	- / 25.719
Support (All Modification Items)												
2.1) Production Support	- / 0.481	- / -	- / 0.357	- / 0.078	- / -	- / 0.078	- / 0.106	- / 0.147	- / 0.103	- / 0.181	- / -	- / 1.453
2.2) Production Support Red Falcon Upgrade Kits	- / -	- / -	- / -	- / 0.150	- / -	- / 0.150	- / -	- / -	- / -	- / -	- / -	- / 0.150
2.3) DSA	- / 0.100	- / -	- / 0.621	- / 0.503	- / -	- / 0.503	- / 0.694	- / 0.981	- / 0.960	- / 1.215	- / -	- / 5.074
2.4) DSA Red Falcon Upgrade Kits	- / -	- / -	- / -	- / 0.270	- / -	- / 0.270	- / -	- / -	- / -	- / -	- / -	- / 0.270
Subtotal: Support	- / 0.581	- / -	- / 0.978	- / 1.001	- / -	- / 1.001	- / 0.800	- / 1.128	- / 1.063	- / 1.396	- / -	- / 6.947
Installation												
Modification Item 1 of 1: 1U014 Engineering Change Proposal (ECP) Increment F	- / 0.000	- / -	- / -	- / 2.353	- / -	- / 2.353	- / 0.525	- / 0.702	- / 0.972	- / 0.746	- / -	- / 5.298
Subtotal: Installation	- / 0.000	- / -	- / -	- / 2.353	- / -	- / 2.353	- / 0.525	- / 0.702	- / 0.972	- / 0.746	- / -	- / 5.298
Total												
Total Cost (Procurement + Support + Installation)	8.224	-	7.014	6.286	-	6.286	3.089	4.278	3.907	5.166	-	37.964

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Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit				Modification Number / Title: 6 / 1U014 Engineering Change Proposal (ECP) Increment F					
Modification Item 1 of 1: 1U014 Engineering Change Proposal (ECP) Increment F													
Manufacturer Information													
Manufacturer Name: ARGON-LRIP to FRP Backfit							Manufacturer Location: Fairfax, VA						
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates		Jan 2015											
Delivery Dates		Jan 2016											
Manufacturer Name: ARGON-ECP Inc F-Processing Upgrades							Manufacturer Location: Fairfax, VA						
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates		Jan 2015	Jan 2016										
Delivery Dates		Jan 2016	Jan 2017										
Manufacturer Name: ARGON - ECP INC F DRTs							Manufacturer Location: Fairfax, VA						
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 12						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates		Jan 2015	Jan 2016										
Delivery Dates		Jan 2016	Jan 2017										
Manufacturer Name: Naval Reconnaissance Office (NRO) - Red Falcon							Manufacturer Location: Chantilly, VA						
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 7						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates			Jan 2016										
Delivery Dates			Aug 2016										
Installation Information													
Method of Implementation: Ship:: Installation Name: Processing Upgrades (ECPs)													
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.455	- / -	- / -	- / -	- / -	7 / 0.455	
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.603	- / -	- / -	- / -	9 / 0.603	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5	P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit	Modification Number / Title: 6 / 1U014 Engineering Change Proposal (ECP) Increment F

Modification Item 1 of 1: 1U014 Engineering Change Proposal (ECP) Increment F

Installation Information

Method of Implementation: Ship:: Installation Name: Processing Upgrades (ECPs)

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.828	- / -	- / -	12 / 0.828
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.629	- / -	9 / 0.629
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / -	14 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.455	9 / 0.603	12 / 0.828	9 / 0.629	14 / -	51 / 2.515

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	2	2	5	-	2	6	4	-	4	4	1	14	51
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	2	2	5	-	2	6	4	-	4	4	1	14	51

Method of Implementation: Ship:: Installation Name: DRT

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.070	- / -	- / -	- / -	- / -	7 / 0.070
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.099	- / -	- / -	- / -	9 / 0.099
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.144	- / -	- / -	12 / 0.144
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.117	- / -	9 / 0.117
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / -	14 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.070	9 / 0.099	12 / 0.144	9 / 0.117	14 / -	51 / 0.430

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015									
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5					P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit					Modification Number / Title: 6 / 1U014 Engineering Change Proposal (ECP) Increment F									

Modification Item 1 of 1: 1U014 Engineering Change Proposal (ECP) Increment F

Installation Information

Method of Implementation: Ship:: Installation Name: DRT

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	-	3	3	3	-	5	4	3	-	4	4	1	14	51
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	-	3	3	3	-	5	4	3	-	4	4	1	14	51

Method of Implementation: Ship:: Installation Name: LRIP to FRP BackFit Kit

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.000
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	3 / 1.983	- / -	3 / 1.983	- / -	- / -	- / -	- / -	- / -	3 / 1.983
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.000	- / -	- / -	3 / 1.983	- / -	3 / 1.983	- / -	- / -	- / -	- / -	- / -	4 / 1.983

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Out	1	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4

Method of Implementation: Ship:: Installation Name: Red Falcon Upgrade Kits

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5	P-1 Line Item Number / Title: 2360 / Shipboard IW Exploit	Modification Number / Title: 6 / 1U014 Engineering Change Proposal (ECP) Increment F

Modification Item 1 of 1: 1U014 Engineering Change Proposal (ECP) Increment F

Installation Information

Method of Implementation: Ship:: Installation Name: Red Falcon Upgrade Kits

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	10 / 0.370	- / -	10 / 0.370	- / -	- / -	- / -	- / -	- / -	10 / 0.370
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	10 / 0.370	- / -	10 / 0.370	- / -	- / -	- / -	- / -	- / -	10 / 0.370

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	3	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	-	-	-	-	-	-	-	-	-	-	-	-	3	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10

Method of Implementation (Organic): Not Installed - CUB Replacement (Cryptologic Unified Build)

Installation Quantity: 1

Footnotes:

⁽⁹⁾ First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability.

⁽¹⁰⁾ Replacement of obsolete HITS/DRT Boxes to Next Generation HITS/DRT in support of SSEE Inc F. DRTs to be installed in conjunction with ECP Processing Upgrades as Kits.

⁽¹¹⁾ Unit Cost of Red Falcon consists of the V(2) Upgrade kit and accompanying antenna.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 5: Reconnaissance Equipment							P-1 Line Item Number / Title: 2361 / Automatic Identification System (AIS)					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	3.446	0.896	0.164	0.152	-	0.152	0.147	0.151	0.158	0.161	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	3.446	0.896	0.164	0.152	-	0.152	0.147	0.151	0.158	0.161	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	3.446	0.896	0.164	0.152	-	0.152	0.147	0.151	0.158	0.161	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: 1U030: Automatic Identification System (AIS) is an international maritime Very High Frequency (VHF) communication system that allows ships to exchange information (machine to machine) on navigation (position, course, speed, etc), ship information (ship name, call sign, length/beam), cargo information (draft, type, destination, route, estimated time of arrival), and messaging (safety, text). This technology improves capability in three diverse areas: (a) situational awareness/common operational picture, (b) navigation/safety of ship and, (c) other intelligence gathering/correlation. AIS will procure Commercial Off-The-Shelf (COTS) AIS gear and install them on Navy warships. This provides the fleet with an operating capability to send unclassified data to the Maritime Operations Center (MOC). AIS provides an integrated AIS capability on force level United States (US) surface warships and submarines, including interfaces with ship's Global Command and Control System-Maritime/Common Operational Picture, and combat systems as defined by fleet requirements and concept of operations. The program provides Maritime Domain Awareness (MDA) AIS Sensor Server equipment to the MOC for publishing AIS data to the MDA Data Sharing Community of Interest. Funds will procure and install AIS systems for ships, submarines and shore sites consisting of a combination of modified COTS and government/commercial software, such as omni-directional VHF, Global Positioning System antennas, AIS transponders, displays and associated cables, servers, power supplies, laptop computers, junction boxes, switches and radio frequency couplers.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 5: Reconnaissance Equipment					P-1 Line Item Number / Title: 2361 / Automatic Identification System (AIS)			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1U030 Automatic Identification System (AIS)	P-40a, P-5a		- / 3.446	- / 0.896	- / 0.164	- / 0.152	- / -	- / 0.152
Total Gross/Weapon System Cost			- / 3.446	- / 0.896	- / 0.164	- / 0.152	- / -	- / 0.152
*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 add due to rounding.								
Justification: FY16 funds provide for the installation of one AIS submarine configuration procured in FY15.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5						P-1 Line Item Number / Title: 2361 / Automatic Identification System (AIS)									Aggregated Items Title: 1U030 Automatic Identification System (AIS)				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
1) 1U030 Automatic Identification Systems (AIS)																				
1.1) AIS procurement ^(t)	A		61.818	11	0.680	65.000	3	0.195	89.000	1	0.089	-	-	-	-	-	-	-	-	
1.2) Production Support	A		-	-	0.518	-	-	0.101	-	-	0.075	-	-	-	-	-	-	-	-	
1.3) FMP	A		-	-	2.248	-	-	0.600	-	-	-	-	-	0.152	-	-	-	-	0.152	
Subtotal: 1) 1U030 Automatic Identification Systems (AIS)			-	-	3.446	-	-	0.896	-	-	0.164	-	-	0.152	-	-	-	-	0.152	
Total			-	-	3.446	-	-	0.896	-	-	0.164	-	-	0.152	-	-	-	-	0.152	

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 5				P-1 Line Item Number / Title: 2361 / Automatic Identification System (AIS)					Aggregated Items: 1U030 Automatic Identification System (AIS)				
Item Number / Title [DODIC]	OC 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) 1U030 Automatic Identification Systems (AIS)													
1.1) AIS procurement		2014	SRC / Atlanta, GA	C / FFP	SSC Atlantic	Nov 2013	Sep 2014	3	65.000	Y			
1.1) AIS procurement		2015	SRC / Atlanta, GA	C / FFP	SSC Atlantic	Nov 2014	Sep 2015	1	89.000	Y			

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 6: Submarine Surveillance Equipment							P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements: 0603562N, 0604503N				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	793.862	44.464	36.938	79.954	-	79.954	71.028	60.090	77.373	85.594	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	793.862	44.464	36.938	79.954	-	79.954	71.028	60.090	77.373	85.594	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	793.862	44.464	36.938	79.954	-	79.954	71.028	60.090	77.373	85.594	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	1.793	1.515	1.972	-	1.972	0.610	1.142	1.251	1.306	Continuing	Continuing
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: (U) The Submarine Support Equipment Program (SSEP) was established to develop and support systems which provide the capability to exploit signal intercepts for tactical support and early warning of threat sensors. The Electronic Warfare Support (ES) Operational Requirements Document (ORD) Serial. No. 570-77-00 dated 20 Dec. 2000, established funding to procure AN/BLQ-10 Electronic Warfare Support and Improved Communication Acquisition/Direction Finding (ICADF) systems to provide a modern ES capability to LOS ANGELES, SEAWOLF, and SSGN Class submarines. Funds procure AN/BLQ-10B(V) Non-Recurring Engineering (NRE), Pre-Production Units (PPU) and augmentation systems for ES Modernization upgrades for all submarine platforms. Funds also procure modification kits for the AN/BLQ-10(V) ES System, VIRGINIA Class ES Modernization upgrades, Reliability & Maintainability, obsolescence and Operational Field Change Kits for the legacy AN/WLR-8(V)2 ESM system, and the legacy AN/BRD-7 direction finding system. Funds buy unique equipment in limited quantities that are maintained in a pool and rotated among attack submarines as dictated by scheduled operations and to provide specific capability improvements to major SSN sensor systems. ML003 - SSEP special support equipment allows the procurement of special purpose test equipment utilized by the Type Commander Groom Teams. Exact quantities vary from year to year based on Fleet requirements. ML005 - Procures Legacy Submarine Electronic Surveillance Measures (SubESM) AN/BRD-7 Reliability and Maintainability (R&M) obsolescence and operational Field Change Kits, e.g., Analog relay replacement, antenna cabling replacement, related Hull, Mechanical & Electrical (H,M&E) sail components and associated Integrated Logistics Support (ILS), and technical data. ML007 - Procures the ICADF communications direction finding system below deck units for installation on LOS ANGELES and SEAWOLF Class submarines. ML008 - Procures the ICADF Multi-Function Modular Mast (MMM) Antenna for installation on LOS ANGELES Class submarines. Procures spare MMMs to support fleet replacement in the event of catastrophic failure. ML009 - Procures Capability Insertions for installation on LOS ANGELES, SSGN, and SEAWOLF Class submarines that provide incremental improvements to the AN/BLQ-10(V) baseline system for improved capability against new threats, to reduce size, procurement costs, power requirements and maintenance, while increasing system availability. Includes: Embedded National Tactical Receiver (ENTR)/Generic Area Limitation Environment (GALE) upgrade, Info Assurance (IA)/Solaris upgrade, Exterior Communication System (ECS) Point to Point upgrade, Low Probability of Intercept (LPI) Radar Receiver, and associated Integrated Logistics Support (ILS), and technical data.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 6: Submarine Surveillance Equipment		P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0603562N, 0604503N
ML010 - Procures Technical Insertions (TI) for installation on LOS ANGELES, SSGN, SEAWOLF, and VIRGINIA Class submarines that provide updates to the AN/BLQ-10(V) configuration baseline which incorporate current Commercial off the Shelf (COTS) processing technology and software to account for obsolescence avoidance, and Reliability, Maintainability and Availability (RMA) and associated Integrated Logistics Support (ILS) and technical data. Hardware builds include supporting platform level Submarine Warfare Federated Tactical Systems (SWFTS) interfaces. TI upgrade kits are procured under various configurations in each fiscal year including required NRE for TI-12, TI-14, TI-16, and TI-18.		
ML011 -Procures Legacy Submarine Electronic Surveillance Measures (SubESM) including AN/WLR-8 Reliability and Maintainability (R&M) Field Change Kits and other materials for Obsolescence Mitigation, e.g., Digital Display Unit (DDU) obsolescence upgrade, Solid State Memory, Heat Dissipation improvement, related H,M&E sail components and associated Integrated Logistics Support (ILS), and technical data.		
ML015 - Procures the AN/BLQ-10(V)2/3/4 ES System for installation on LOS ANGELES, SEAWOLF, and SSGN Class submarines.		
ML017 - Procures AN/BLQ-10(V) and ICADF subsystem Product Improvement Field Change Kits including: emergent Engineering Changes, SIGINT carry-on equipment racks, SWFTS upgrades and associated Integrated Logistics Support (ILS) and technical data. Provide AN/BLQ-10 intermediate level repairs, changes and maintenance activities and associated materials that improve the overall Reliability, Maintainability and Availability of fielded SubESM systems. Procures maintenance and sustainment efforts for AN/BLQ-10 active, deploying fleet assets. Increased funding starting FY16 provided to address growing obsolescence and reliability issues as basic AN/BLQ-10 system continues to age.		
ML018 - Funds procure ES Modernization upgrades to the VIRGINIA Class AN/BLQ-10(V)1 ES System including Photonics ES Product Improvement (PEPI-3), PATRIOT Phase B range finder and Technical Insertions (TI).		
ML019 - Procures ESM spares to provide Ready for Issue (RFI) assets to maintain system operational availability.		
ML020 - Funds procure AN/BLQ-10B(V) Non-Reoccurring Engineering (NRE) and modernization kits for ES Modernization upgrades on all SSN/SSGN platforms. OPNAV direction provided for Next Generation EW Digital Submarine Electronic Warfare System Serial N97/12U144403 dated 17 June 12. The AN/BLQ-10B(V) efforts will transform the current AN/BLQ-10(V) system to a digital hardware system that will enable a sustainable, cost effective, software application based modernization process for the rapid fielding of required capabilities to address changing and emerging threats in the Radio Frequency (RF) spectrum. AN/BLQ-10B(V) incorporates a five layered approach including: RF, Digitizing, Interface, Processing, and Display. These layers serve as building blocks to the AN/BLQ-10(V) Modular, Open system, Scalable Architecture (MOSA) approach.		
ML021 - Procure BPS 15/16 Reliability and Maintainability (R&M) Field Change Kits and other materials for Obsolescence Mitigation. Provide in-service and systems engineering, logistics, material, configuration management, quality assurance, installation and test certification support only for the Submarine Surface Navigation (AN/BPS-15/16) Radar. Also provides for interface with the conjoined Voyage Management System (VMS) and Electronic Chart & Display Information System - Navy (ECDIS-N). BPS 15/16 funding transferred as zero sum adjustment from BLI 0670 where these requirements were previously supported. Transfer done to provide more focused, submarine centric oversight of these ship safety required systems.		
ML830 - Production Engineering funds provide the following functions: value engineering; review and evaluation of production design data and documentation; production configuration control; maintenance engineering efforts designed and incorporated into the production manufacturing process, and other related engineering functions that are integral to all production ES Systems and upgrades.		
ML927 - Provides for the Installation of Equipment including Fleet Modernization Program Installations for shipboard systems.		
ML4M7 - Provides for the Installation of non-Fleet Modernization Program Equipment.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 6: Submarine Surveillance Equipment				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements: 0603562N, 0604503N		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Submarine Supt Equip Prog	P-40a, P-5a		- / 26.093	- / 6.008	- / 5.065	- / 5.401	- / -	- / 5.401
1 / ML007 ICADF (SHIPALT (ES SYSTEM COMMS DF))	P-3a		- / 139.771	- / 1.171	- / 2.407	- / 1.223	- / -	- / 1.223
2 / ML008 ICADF MMM ANTENNA (SHIPALT)	P-3a		- / 84.263	- / 10.969	- / 1.414	- / 11.219	- / -	- / 11.219
3 / ML010 TECHNICAL INSERTION (SHIPALT)	P-3a		- / 29.509	- / 9.059	- / 10.409	- / 16.690	- / -	- / 16.690
4 / ML015 AN/BLQ-10(V) SSN ES SYSTEM (SHIPALT)	P-3a		- / 461.729	- / -	- / -	- / -	- / -	- / -
5 / ML017 ANBLQ-10(V) FIELD CHANGE KITS (ORDALT)	P-3a		- / 15.445	- / 6.015	- / 4.699	- / 6.887	- / -	- / 6.887
6 / ML018 VA CLASS ES MODERNIZATION PEPI-3 (SHIPALT)	P-3a		- / 15.294	- / 8.369	- / -	- / 0.409	- / -	- / 0.409
7 / ML018 VA CLASS ES MODERNIZATION PATRIOT (SHIPALT)	P-3a		- / 11.194	- / 2.757	- / 2.467	- / 3.846	- / -	- / 3.846
8 / ML018 VA CLASS ES MODERNIZATION SEI/CMF (SHIPALT)	P-3a		- / 4.290	- / 0.058	- / -	- / -	- / -	- / -
9 / ML018 VA CLASS ES MODERNIZATION TECHNICAL INSERTION (SHIPALT)	P-3a		- / 6.274	- / 0.058	- / -	- / -	- / -	- / -
10 / ML020 AN/BLQ-10B (V) (SHIPALT)	P-3a		- / 0.000	- / -	- / 10.477	- / 34.279	- / -	- / 34.279
Total Gross/Weapon System Cost			- / 793.862	- / 44.464	- / 36.938	- / 79.954	- / -	- / 79.954
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
Submarine Supt Equip Prog	P-40a, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / ML007 ICADF (SHIPALT (ES SYSTEM COMMS DF))	P-3a		- / 2.491	- / -	- / 2.589	- / -	- / -	- / 149.652
2 / ML008 ICADF MMM ANTENNA (SHIPALT)	P-3a		- / 1.257	- / -	- / -	- / -	- / -	- / 109.122
3 / ML010 TECHNICAL INSERTION (SHIPALT)	P-3a		- / 15.546	- / 17.883	- / 16.649	- / 20.379	Continuing	Continuing
4 / ML015 AN/BLQ-10(V) SSN ES SYSTEM (SHIPALT)	P-3a		- / 1.380	- / -	- / -	- / -	- / -	- / 463.109
5 / ML017 ANBLQ-10(V) FIELD CHANGE KITS (ORDALT)	P-3a		- / 6.148	- / 6.024	- / 6.056	- / 5.860	Continuing	Continuing
6 / ML018 VA CLASS ES MODERNIZATION PEPI-3 (SHIPALT)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 24.072
7 / ML018 VA CLASS ES MODERNIZATION PATRIOT (SHIPALT)	P-3a		- / 2.727	- / 2.955	- / 0.354	- / 0.361	- / -	- / 26.661
8 / ML018 VA CLASS ES MODERNIZATION SEI/CMF (SHIPALT)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 4.348
9 / ML018 VA CLASS ES MODERNIZATION TECHNICAL INSERTION (SHIPALT)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 6.332
10 / ML020 AN/BLQ-10B (V) (SHIPALT)	P-3a		- / 35.978	- / 27.742	- / 46.129	- / 53.286	- / 6.755	- / 214.646
Total Gross/Weapon System Cost			- / 71.028	- / 60.090	- / 77.373	- / 85.594	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 add due to rounding.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6								P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog							Aggregated Items Title: Submarine Supt Equip Prog				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) ML003 SSEP SPECIAL SUPPORT EQUIPMENT																					
1.1) SPECIAL SUPPORT EQUIPMENT	A		-	-	2.394	-	-	0.290	-	-	0.318	-	-	0.323	-	-	-	-	-	0.323	
Subtotal: 1) ML003 SSEP SPECIAL SUPPORT EQUIPMENT			-	-	2.394	-	-	0.290	-	-	0.318	-	-	0.323	-	-	-	-	-	0.323	
2) ML005 AN/BRD-7 FCKS																					
2.1) AN/BRD-7 FIELD CHANGE KITS	A		-	-	2.360	-	-	0.240	-	-	0.244	-	-	0.248	-	-	-	-	-	0.248	
Subtotal: 2) ML005 AN/BRD-7 FCKS			-	-	2.360	-	-	0.240	-	-	0.244	-	-	0.248	-	-	-	-	-	0.248	
3) ML011 AN/WLR-8 R&M FIELD CHANGE KITS																					
3.1) AN/WLR-8 R&M FCKS	A		-	-	5.125	-	-	0.491	-	-	0.377	-	-	0.383	-	-	-	-	-	0.383	
Subtotal: 3) ML011 AN/WLR-8 R&M FIELD CHANGE KITS			-	-	5.125	-	-	0.491	-	-	0.377	-	-	0.383	-	-	-	-	-	0.383	
4) ML019 ESM SPARES																					
4.1) ESM SPARES ^(†)	A		818,666.67	3	2.456	843,000.00	2	1.686	894,000.00	1	0.894	-	-	-	-	-	-	-	-	-	
Subtotal: 4) ML019 ESM SPARES			-	-	2.456	-	-	1.686	-	-	0.894	-	-	-	-	-	-	-	-	-	
5) ML830 PRODUCTION ENGINEERING																					
5.1) PRODUCTION ENGINEERING	A		-	-	13.758	-	-	3.301	-	-	3.232	-	-	3.284	-	-	-	-	-	3.284	
Subtotal: 5) ML830 PRODUCTION ENGINEERING			-	-	13.758	-	-	3.301	-	-	3.232	-	-	3.284	-	-	-	-	-	3.284	
6) ML021 AN/BPS 15/16 FCKs ⁽¹⁾																					
6.1) AN/BPS 15/16 FCKs	A		-	-	-	-	-	-	-	-	-	-	-	1.163	-	-	-	-	-	1.163	
Subtotal: 6) ML021 AN/BPS 15/16 FCKs			-	-	0.000	-	-	-	-	-	-	-	-	1.163	-	-	-	-	-	1.163	
Total			-	-	26.093	-	-	6.008	-	-	5.065	-	-	5.401	-	-	-	-	-	5.401	

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost									
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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) ML003 SSEP SPECIAL SUPPORT EQUIPMENT																											

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6								P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog								Aggregated Items Title: Submarine Supt Equip Prog			

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1.1) SPECIAL SUPPORT EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 1) ML003 SSEP SPECIAL SUPPORT EQUIPMENT</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) ML005 AN/BRD-7 FCKS																				
2.1) AN/BRD-7 FIELD CHANGE KITS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 2) ML005 AN/BRD-7 FCKS</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) ML011 AN/WLR-8 R&M FIELD CHANGE KITS																				
3.1) AN/WLR-8 R&M FCKS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 3) ML011 AN/WLR-8 R&M FIELD CHANGE KITS</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4) ML019 ESM SPARES																				
4.1) ESM SPARES ^(t)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 4) ML019 ESM SPARES</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5) ML830 PRODUCTION ENGINEERING																				
5.1) PRODUCTION ENGINEERING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 5) ML830 PRODUCTION ENGINEERING</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) ML021 AN/BPS 15/16 FCKs ⁽¹⁾																				
6.1) AN/BPS 15/16 FCKs	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: 6) ML021 AN/BPS 15/16 FCKs</i>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Footnotes:

(1) Zero sum transfer of funds from BLI 0670. Transfer of funding conducted to provide more focused, submarine centric oversight of radar functionality.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog					Aggregated Items: Submarine Supt Equip Prog				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date	
4) ML019 ESM SPARES													
4.1) ESM SPARES		2014	Lockheed Martin / Syracuse, NY	SS / FP	NMSO	Mar 2014	Nov 2015	2	843,000.00	N		Oct 2013	
4.1) ESM SPARES		2015	Lockheed Martin / Syracuse, NY	SS / FP	NMSO	Mar 2015	Nov 2016	1	894,000.00	N		Oct 2014	

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog					Modification Number / Title: 1 / ML007 ICADF			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	139.771	1.171	2.407	1.223	-	1.223	2.491	-	2.589	-	-	149.652
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	139.771	1.171	2.407	1.223	-	1.223	2.491	-	2.589	-	-	149.652
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	139.771	1.171	2.407	1.223	-	1.223	2.491	-	2.589	-	-	149.652
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Provides advanced low-band COMINT Direction Finding (DF) capability compatible with CLASSIC TROLL and AN/BLQ-10 SSN ES system. Replaces obsolete AN/BRD-7 below decks equipment with modern, open architecture system compliant with Maritime Cryptologic Architecture.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog						Modification Number / Title: 1 / ML007 ICADF			
Models of Systems Affected: ICADF				Modification Type: SHIPALT (ES SYSTEM COMMS DF)				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
Modification Item 1 of 1: ML007 ICADF													
B Kits													
Recurring													
1.1.1) ICADF - NonOrganic	27 / 91.249	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 91.249	
1.1.2) NIOC TRANSFER EQUIPMENT - NonOrganic ⁽²⁾	10 / 0.000	1 / -	2 / -	1 / -	- / -	1 / -	2 / -	- / -	2 / -	- / -	- / -	18 / -	
Subtotal: Recurring	- / 91.249	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 91.249	
Subtotal: ML007 ICADF	37 / 91.249	1 / -	2 / -	1 / -	- / -	1 / -	2 / -	- / -	2 / -	- / -	- / -	45 / 91.249	
Subtotal: Procurement, All Modification Items	- / 91.249	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 91.249	
Installation													
Modification Item 1 of 1: ML007 ICADF	- / 48.522	- / 1.171	- / 2.407	- / 1.223	- / -	- / 1.223	- / 2.491	- / -	- / 2.589	- / -	- / -	- / 58.403	
Subtotal: Installation	- / 48.522	- / 1.171	- / 2.407	- / 1.223	- / -	- / 1.223	- / 2.491	- / -	- / 2.589	- / -	- / -	- / 58.403	
Total													
Total Cost (Procurement + Support + Installation)	139.771	1.171	2.407	1.223	-	1.223	2.491	-	2.589	-	-	149.652	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6										P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog										Modification Number / Title: 1 / ML007 ICADF											
Modification Item 1 of 1: ML007 ICADF																															
Manufacturer Information																															
Manufacturer Name: Lockheed Martin															Manufacturer Location: Syracuse, NY																
Administrative Leadtime (in Months): 6															Production Leadtime (in Months): 20																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: AIT (ES SYSTEM COMMS DF):: Installation Name: ICADF																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		27 / 35.644	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 35.644																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		27 / 35.644	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 35.644																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
Out	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
Method of Implementation: AIT:: Installation Name: NIOC TRANSFER EQUIPMENT																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		10 / 12.878	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 12.878																		
FY 2014		- / -	1 / 1.171	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.171																		

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6		P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog			Modification Number / Title: 1 / ML007 ICADF

Modification Item 1 of 1: ML007 ICADF

Installation Information

Method of Implementation: AIT:: Installation Name: NIOC TRANSFER EQUIPMENT

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	2 / 2.407	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.407
FY 2016	- / -	- / -	- / -	1 / 1.223	- / -	1 / 1.223	- / -	- / -	- / -	- / -	- / -	1 / 1.223
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.491	- / -	- / -	- / -	- / -	2 / 2.491
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.589	- / -	- / -	2 / 2.589
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	10 / 12.878	1 / 1.171	2 / 2.407	1 / 1.223	- / -	1 / 1.223	2 / 2.491	- / -	2 / 2.589	- / -	- / -	18 / 22.759

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	10	-	-	1	-	-	-	1	1	-	-	-	1	1	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	18
Out	10	-	-	1	-	-	-	1	1	-	-	-	1	1	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	18

Footnotes:

⁽²⁾ Transfer Units are refurbished after receipt from NIOC prior to installation, no procurement cost associated.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog					Modification Number / Title: 2 / ML008 ICADF MMM ANTENNA			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	84.263	10.969	1.414	11.219	-	11.219	1.257	-	-	-	-	109.122
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	84.263	10.969	1.414	11.219	-	11.219	1.257	-	-	-	-	109.122
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	84.263	10.969	1.414	11.219	-	11.219	1.257	-	-	-	-	109.122
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Synchronizes improved low-band direction finding SIGINT sensor with coordinated N77/CNSG CLASSIC TROLL procurement. Replaces obsolete AN/BRD-7 antenna equipment with modern, open-architecture system compliant with Maritime Cryptologic Architecture. Procurement of FY16 spares required to support catastrophic failure of installed fleet assets and resultant loss of Ao and mission capability.												

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog				Modification Number / Title: 2 / ML008 ICADF MMM ANTENNA					
Models of Systems Affected: MULTI FUNCTION MODULAR MAST				Modification Type: SHIPALT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: ML008 ICADF MMM ANTENNA													
B Kits													
Recurring													
1.1.1) Multi Functional Modular Mast - NonOrganic	17 / 67.500	2 / 8.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 76.300	
1.1.2) MMM Spare - Organic	- / -	- / -	- / -	2 / 7.804	- / -	2 / 7.804	- / -	- / -	- / -	- / -	- / -	2 / 7.804	
Subtotal: Recurring	- / 67.500	- / 8.800	- / -	- / 7.804	- / -	- / 7.804	- / -	- / -	- / -	- / -	- / -	- / 84.104	
Subtotal: ML008 ICADF MMM ANTENNA	17 / 67.500	2 / 8.800	- / -	2 / 7.804	- / -	2 / 7.804	- / -	- / -	- / -	- / -	- / -	21 / 84.104	
Subtotal: Procurement, All Modification Items	- / 67.500	- / 8.800	- / -	- / 7.804	- / -	- / 7.804	- / -	- / -	- / -	- / -	- / -	- / 84.104	
Installation													
Modification Item 1 of 1: ML008 ICADF MMM ANTENNA	- / 16.763	- / 2.169	- / 1.414	- / 3.415	- / -	- / 3.415	- / 1.257	- / -	- / -	- / -	- / -	- / 25.018	
Subtotal: Installation	- / 16.763	- / 2.169	- / 1.414	- / 3.415	- / -	- / 3.415	- / 1.257	- / -	- / -	- / -	- / -	- / 25.018	
Total													
Total Cost (Procurement + Support + Installation)	84.263	10.969	1.414	11.219	-	11.219	1.257	-	-	-	-	109.122	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6										P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog										Modification Number / Title: 2 / ML008 ICADF MMM ANTENNA											
Modification Item 1 of 1: ML008 ICADF MMM ANTENNA																															
Manufacturer Information																															
Manufacturer Name: Lockheed Martin														Manufacturer Location: Syracuse, NY																	
Administrative Leadtime (in Months): 6														Production Leadtime (in Months): 20																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Mar 2014																													
Delivery Dates		Nov 2015																													
Manufacturer Name: TBD (Competitive Procurement)														Manufacturer Location: TBD (Competitive Procurement)																	
Administrative Leadtime (in Months): 6														Production Leadtime (in Months): 20																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates										Mar 2016																					
Delivery Dates										Nov 2017																					
Installation Information																															
Method of Implementation: AIT:: Installation Name: Multi Functional Modular Mast																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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		12 / 16.763	2 / 2.169	1 / 1.414	1 / 1.139	- / 0.000	1 / 1.139	1 / 1.257	- / -	- / -	- / -	- / -	17 / 22.742																		
FY 2014		- / -	- / -	- / -	2 / 2.276	- / -	2 / 2.276	- / -	- / -	- / -	- / -	- / -	2 / 2.276																		
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		12 / 16.763	2 / 2.169	1 / 1.414	3 / 3.415	- / -	3 / 3.415	1 / 1.257	- / -	- / -	- / -	- / -	19 / 25.018																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	12	-	-	1	1	-	-	-	1	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
Out	12	-	-	1	1	-	-	-	1	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 2 / ML008 ICADF MMM ANTENNA
<i>Modification Item 1 of 1:</i> ML008 ICADF MMM ANTENNA		
Installation Information		
Method of Implementation (Organic): Not Installed - MMM Spare		Installation Quantity: 2

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog					Modification Number / Title: 3 / ML010 TECHNICAL INSERTION			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	29.509	9.059	10.409	16.690	-	16.690	15.546	17.883	16.649	20.379	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	29.509	9.059	10.409	16.690	-	16.690	15.546	17.883	16.649	20.379	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	29.509	9.059	10.409	16.690	-	16.690	15.546	17.883	16.649	20.379	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: TI Processor upgrade provides additional computing capability over previous TI baselines and replaces out of production systems for installation on LOS ANGELES, SSGN, SEAWOLF, and VIRGINIA Class submarines. Provides updates to the AN/BLQ-10 (V) configuration baseline which incorporates current Commercial off the Shelf (COTS) processing technology and software to account for obsolescence avoidance, and Reliability, Maintainability and Availability (RMA) and associated Integrated Logistics Support (ILS) and technical data. Hardware builds include supporting platform level Submarine Warfare Federated Tactical Systems (SWFTS) interfaces. Capability and Technical Insertion for AN/BLQ-10(V) provide spiral improvements to the baseline system which are designed to counter against new and evolving threat emitters. This effort is the transition of the EW AN/BLQ-10 CI/TI modernization process to synchronize with SWFTS TI/APB process and model. TI-16 baseline represents a significant change and increase in capabilities to enable software processing of digital data provided by EW Next Generation Architecture (NGA) hardware. TI-16 introduces the EW Server system that centralizes in software many functions that were previously handled in older, less capable hardware systems. Vastly increases coordination and dissemination of data. Due to proliferation of multiple, older TI configurations, TI-16 still required to procure significant hardware updates to baseline older systems prior to installing new capabilities. Increase in TI capability and baselining of older system to support modernization account for slight increase in unit cost in FY16. TI-16 is a concurrent requirement for installing EW NGA hardware such as EW Tactical Improvement Set (ETIS).												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog				Modification Number / Title: 3 / ML010 TECHNICAL INSERTION					
Models of Systems Affected: TECHNICAL INSERTION				Modification Type: SHIPALT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: ML010 TECHNICAL INSERTION													
B Kits													
Recurring													
1.1.1) TI/APB - NonOrganic ⁽³⁾	12 / 6.236	4 / 5.596	4 / 6.402	7 / 12.619	- / -	7 / 12.619	6 / 10.114	7 / 12.773	7 / 10.986	7 / 14.602	Continuing	Continuing	
Subtotal: Recurring	- / 6.236	- / 5.596	- / 6.402	- / 12.619	- / -	- / 12.619	- / 10.114	- / 12.773	- / 10.986	- / 14.602	Continuing	Continuing	
Subtotal: ML010 TECHNICAL INSERTION	12 / 6.236	4 / 5.596	4 / 6.402	7 / 12.619	- / -	7 / 12.619	6 / 10.114	7 / 12.773	7 / 10.986	7 / 14.602	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 6.236	- / 5.596	- / 6.402	- / 12.619	- / -	- / 12.619	- / 10.114	- / 12.773	- / 10.986	- / 14.602	Continuing	Continuing	
Support (All Modification Items)													
2.1) TI/APB NRE	- / 18.346	- / 3.463	- / 2.325	- / 2.362	- / -	- / 2.362	- / 2.405	- / 2.451	- / 2.500	- / 2.550	- / -	- / 36.402	
2.2) TI/APB CCM	3 / 2.565	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.565	
Subtotal: Support	- / 20.911	- / 3.463	- / 2.325	- / 2.362	- / -	- / 2.362	- / 2.405	- / 2.451	- / 2.500	- / 2.550	- / -	- / 38.967	
Installation													
Modification Item 1 of 1: ML010 TECHNICAL INSERTION	- / 2.362	- / -	- / 1.682	- / 1.709	- / -	- / 1.709	- / 3.027	- / 2.659	- / 3.163	- / 3.227	- / 3.292	- / 21.121	
Subtotal: Installation	- / 2.362	- / -	- / 1.682	- / 1.709	- / -	- / 1.709	- / 3.027	- / 2.659	- / 3.163	- / 3.227	- / 3.292	- / 21.121	
Total													
Total Cost (Procurement + Support + Installation)	29.509	9.059	10.409	16.690	-	16.690	15.546	17.883	16.649	20.379	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6		P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog			Modification Number / Title: 3 / ML010 TECHNICAL INSERTION

Modification Item 1 of 1: ML010 TECHNICAL INSERTION

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Syracuse, NY
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Mar 2014	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020
Delivery Dates	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021

Installation Information

Method of Implementation: AIT:: Installation Name: TI/APB

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	12 / 2.362	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 2.362
FY 2014	- / -	- / -	4 / 1.682	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.682
FY 2015	- / -	- / -	- / -	4 / 1.709	- / -	4 / 1.709	- / -	- / -	- / -	- / -	- / -	4 / 1.709
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	7 / 3.027	- / -	- / -	- / -	- / -	7 / 3.027
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.659	- / -	- / -	- / -	6 / 2.659
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 3.163	- / -	- / -	7 / 3.163
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 3.227	- / -	7 / 3.227
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 3.292	7 / 3.292
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	12 / 2.362	- / -	4 / 1.682	4 / 1.709	- / -	4 / 1.709	7 / 3.027	6 / 2.659	7 / 3.163	7 / 3.227	7 / 3.292	54 / 21.121

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	12	-	-	-	-	-	2	1	1	-	1	2	1	-	4	2	1	-	2	2	2	-	3	3	1	-	3	3	1	7	54
Out	12	-	-	-	-	-	2	1	1	-	1	2	1	-	4	2	1	-	2	2	2	-	3	3	1	-	3	3	1	7	54

Footnotes:

⁽³⁾ Unit Cost increase in FY16 due to increased capability being added with EW Server System as well as starting age of installed equipment requiring additional modifications/updates to support modernization.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 4 / ML015 AN/BLQ-10(V) SSN ES SYSTEM

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	461.729	-	-	-	-	-	1.380	-	-	-	-	463.109
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	461.729	-	-	-	-	-	1.380	-	-	-	-	463.109
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	461.729	-	-	-	-	-	1.380	-	-	-	-	463.109
(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:

Provides fully integrated, covert, forward area radar signal intercept and ID capability for installation on LOS ANGELES, SEAWOLF and SSGN Class Submarines.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog				Modification Number / Title: 4 / ML015 AN/BLQ-10(V) SSN ES SYSTEM					
Models of Systems Affected: AN/BLQ-10(V)2/3/4				Modification Type: SHIPALT				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: ML015 AN/BLQ-10(V) SSN ES SYSTEM													
B Kits													
Recurring													
1.1.1) AN/BLQ-10(V) SSN ES SYSTEM - NonOrganic		44 / 272.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 272.004	
1.1.2) AN/BLQ-10(V) SSN ES SYSTEM CCM - Organic		1 / 8.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.750	
Subtotal: Recurring		- / 280.754	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 280.754	
Subtotal: ML015 AN/BLQ-10(V) SSN ES SYSTEM		45 / 280.754	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 280.754	
Subtotal: Procurement, All Modification Items		- / 280.754	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 280.754	
Installation													
Modification Item 1 of 1: ML015 AN/BLQ-10(V) SSN ES SYSTEM		- / 180.975	- / -	- / -	- / -	- / -	- / 1.380	- / -	- / -	- / -	- / -	- / 182.355	
Subtotal: Installation		- / 180.975	- / -	- / -	- / -	- / -	- / 1.380	- / -	- / -	- / -	- / -	- / 182.355	
Total													
Total Cost (Procurement + Support + Installation)		461.729	-	-	-	-	-	1.380	-	-	-	463.109	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 4 / ML015 AN/BLQ-10(V) SSN ES SYSTEM

Modification Item 1 of 1: ML015 AN/BLQ-10(V) SSN ES SYSTEM

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Syracuse, NY
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 26

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: AIT:: Installation Name: AN/BLQ-10(V) SSN ES SYSTEM

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	43 / 180.975	- / -	- / -	- / -	- / -	- / -	1 / 1.380	- / -	- / -	- / -	- / -	44 / 182.355
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	43 / 180.975	- / -	- / -	- / -	- / -	- / -	1 / 1.380	- / -	- / -	- / -	- / -	44 / 182.355

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	43	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44
Out	43	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44

Method of Implementation (Organic): Not Installed - AN/BLQ-10(V) SSN ES SYSTEM CCM

Installation Quantity: 1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 5 / ML017 ANBLQ-10(V) FIELD CHANGE KITS

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	15.445	6.015	4.699	6.887	-	6.887	6.148	6.024	6.056	5.860	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	15.445	6.015	4.699	6.887	-	6.887	6.148	6.024	6.056	5.860	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	15.445	6.015	4.699	6.887	-	6.887	6.148	6.024	6.056	5.860	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Procures AN/BLQ-10(V) and ICADF subsystem Product Improvement Field Change Kits (FCK). AN/BLQ-10 FCKs are procured in variable quantities and types, and are bought from a variety of vendors each fiscal year.

Increased funding starting in FY16 provided to address growing obsolescence and reliability issues as basic AN/BLQ-10 system continues to age.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog					Modification Number / Title: 5 / ML017 ANBLQ-10(V) FIELD CHANGE KITS				
Models of Systems Affected: AN/BLQ-10(V)				Modification Type: ORDALT					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: ML017 ANBLQ-10(V) FIELD CHANGE KITS													
B Kits													
Recurring													
1.1.1) AN/BLQ-10(V) FCKs - NonOrganic ⁽⁴⁾	2 / 14.705	1 / 5.682	1 / 4.304	1 / 6.196	- / -	1 / 6.196	1 / 5.381	1 / 5.485	1 / 5.594	1 / 5.706	Continuing	Continuing	
Subtotal: Recurring	- / 14.705	- / 5.682	- / 4.304	- / 6.196	- / -	- / 6.196	- / 5.381	- / 5.485	- / 5.594	- / 5.706	Continuing	Continuing	
Subtotal: ML017 ANBLQ-10(V) FIELD CHANGE KITS	2 / 14.705	1 / 5.682	1 / 4.304	1 / 6.196	- / -	1 / 6.196	1 / 5.381	1 / 5.485	1 / 5.594	1 / 5.706	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 14.705	- / 5.682	- / 4.304	- / 6.196	- / -	- / 6.196	- / 5.381	- / 5.485	- / 5.594	- / 5.706	Continuing	Continuing	
Installation													
Modification Item 1 of 1: ML017 ANBLQ-10(V) FIELD CHANGE KITS	- / 0.740	- / 0.333	- / 0.395	- / 0.691	- / -	- / 0.691	- / 0.767	- / 0.539	- / 0.462	- / 0.154	- / -	- / 4.081	
Subtotal: Installation	- / 0.740	- / 0.333	- / 0.395	- / 0.691	- / -	- / 0.691	- / 0.767	- / 0.539	- / 0.462	- / 0.154	- / -	- / 4.081	
Total													
Total Cost (Procurement + Support + Installation)	15.445	6.015	4.699	6.887	-	6.887	6.148	6.024	6.056	5.860	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 5 / ML017 ANBLQ-10(V) FIELD CHANGE KITS

Modification Item 1 of 1: ML017 ANBLQ-10(V) FIELD CHANGE KITS

Manufacturer Information

Manufacturer Name: Multiple Vendors	Manufacturer Location: Various
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
Delivery Dates	Jun 2014	Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020

Installation Information

Method of Implementation: AIT:: Installation Name: AN/BLQ-10(V) FCKs

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.740	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.740
FY 2014	- / -	1 / 0.333	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.333
FY 2015	- / -	- / -	1 / 0.395	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.395
FY 2016	- / -	- / -	- / -	1 / 0.691	- / -	1 / 0.691	- / -	- / -	- / -	- / -	- / -	1 / 0.691
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.767	- / -	- / -	- / -	- / -	1 / 0.767
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.539	- / -	- / -	- / -	1 / 0.539
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.462	- / -	- / -	1 / 0.462
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.154	- / -	1 / 0.154
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.740	1 / 0.333	1 / 0.395	1 / 0.691	- / -	1 / 0.691	1 / 0.767	1 / 0.539	1 / 0.462	1 / 0.154	- / -	9 / 4.081

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	9
Out	2	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	-	-	9

Footnotes:

⁽⁴⁾ FY16 increase in funding procures intermediate level repair and change material. Variable quantities and types are bought each year.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 6 / ML018 VA CLASS ES MODERNIZATION PEPI-3

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	15.294	8.369	-	0.409	-	0.409	-	-	-	-	-	24.072
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	15.294	8.369	-	0.409	-	0.409	-	-	-	-	-	24.072
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	15.294	8.369	-	0.409	-	0.409	-	-	-	-	-	24.072
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Procures ES Modernization upgrade of Photonics ESM Product Improvement (PEPI-3) capabilities to the VIRGINIA CLASS AN/BLQ-10(V)1 EW System.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog					Modification Number / Title: 6 / ML018 VA CLASS ES MODERNIZATION PEPI-3				
Models of Systems Affected: VA PEPI-3				Modification Type: SHIPALT					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION PEPI-3													
B Kits													
Recurring													
1.1.1) VA PEPI-3 - NonOrganic		3 / 13.057	2 / 8.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 21.249	
Subtotal: Recurring		- / 13.057	- / 8.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.249	
Subtotal: ML018 VA CLASS ES MODERNIZATION PEPI-3		3 / 13.057	2 / 8.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 21.249	
Subtotal: Procurement, All Modification Items		- / 13.057	- / 8.192	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.249	
Installation													
Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION PEPI-3		- / 2.237	- / 0.177	- / -	- / 0.409	- / -	- / 0.409	- / -	- / -	- / -	- / -	- / 2.823	
Subtotal: Installation		- / 2.237	- / 0.177	- / -	- / 0.409	- / -	- / 0.409	- / -	- / -	- / -	- / -	- / 2.823	
Total													
Total Cost (Procurement + Support + Installation)		15.294	8.369	-	0.409	-	0.409	-	-	-	-	24.072	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 6 / ML018 VA CLASS ES MODERNIZATION PEPI-3

Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION PEPI-3

Manufacturer Information

Manufacturer Name: Lockheed Martin				Manufacturer Location: Syracuse, NY			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 20			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Mar 2014						
Delivery Dates	Nov 2015						

Installation Information

Method of Implementation: AIT:: Installation Name: VA PEPI-3

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 2.237	1 / 0.177	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.414
FY 2014	- / -	- / -	- / -	2 / 0.409	- / -	2 / 0.409	- / -	- / -	- / -	- / -	- / -	2 / 0.409
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 2.237	1 / 0.177	- / -	2 / 0.409	- / -	2 / 0.409	- / -	- / -	- / -	- / -	- / -	5 / 2.823

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	1	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	2	1	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 7 / ML018 VA CLASS ES MODERNIZATION PATRIOT

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	11.194	2.757	2.467	3.846	-	3.846	2.727	2.955	0.354	0.361	-	26.661
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	11.194	2.757	2.467	3.846	-	3.846	2.727	2.955	0.354	0.361	-	26.661
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	11.194	2.757	2.467	3.846	-	3.846	2.727	2.955	0.354	0.361	-	26.661
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Procures Electronic Warfare Support (ES) Modernization upgrade of PATRIOT Phase B RADAR range finder for incorporation into the VIRGINIA CLASS Photonics Mast.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog					Modification Number / Title: 7 / ML018 VA CLASS ES MODERNIZATION PATRIOT				
Models of Systems Affected: VA PATRIOT				Modification Type: SHIPALT					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION PATRIOT													
B Kits													
Recurring													
1.1.1) VA PATRIOT - NonOrganic		7 / 9.680	2 / 2.598	2 / 2.300	3 / 3.505	- / -	3 / 3.505	2 / 2.379	2 / 2.424	- / -	- / -	- / -	18 / 22.886
Subtotal: Recurring		- / 9.680	- / 2.598	- / 2.300	- / 3.505	- / -	- / 3.505	- / 2.379	- / 2.424	- / -	- / -	- / -	- / 22.886
Subtotal: ML018 VA CLASS ES MODERNIZATION PATRIOT		7 / 9.680	2 / 2.598	2 / 2.300	3 / 3.505	- / -	3 / 3.505	2 / 2.379	2 / 2.424	- / -	- / -	- / -	18 / 22.886
Subtotal: Procurement, All Modification Items		- / 9.680	- / 2.598	- / 2.300	- / 3.505	- / -	- / 3.505	- / 2.379	- / 2.424	- / -	- / -	- / -	- / 22.886
Installation													
Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION PATRIOT		- / 1.514	- / 0.159	- / 0.167	- / 0.341	- / -	- / 0.341	- / 0.348	- / 0.531	- / 0.354	- / 0.361	- / -	- / 3.775
Subtotal: Installation		- / 1.514	- / 0.159	- / 0.167	- / 0.341	- / -	- / 0.341	- / 0.348	- / 0.531	- / 0.354	- / 0.361	- / -	- / 3.775
Total													
Total Cost (Procurement + Support + Installation)		11.194	2.757	2.467	3.846	-	3.846	2.727	2.955	0.354	0.361	-	26.661

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 7 / ML018 VA CLASS ES MODERNIZATION PATRIOT

Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION PATRIOT

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 19

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Mar 2014	Mar 2015	Mar 2016	Mar 2017	Mar 2018		
Delivery Dates	Oct 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019		

Installation Information

Method of Implementation: AIT:: Installation Name: VA PATRIOT

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 1.514	1 / 0.159	1 / 0.167	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.840
FY 2014	- / -	- / -	- / -	2 / 0.341	- / -	2 / 0.341	- / -	- / -	- / -	- / -	- / -	2 / 0.341
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.348	- / -	- / -	- / -	- / -	2 / 0.348
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.531	- / -	- / -	- / -	3 / 0.531
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.354	- / -	- / -	2 / 0.354
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.361	- / -	2 / 0.361
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 1.514	1 / 0.159	1 / 0.167	2 / 0.341	- / -	2 / 0.341	2 / 0.348	3 / 0.531	2 / 0.354	2 / 0.361	- / -	18 / 3.775

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	5	1	-	-	-	1	-	-	-	1	-	1	-	2	-	-	-	3	-	-	-	2	-	-	-	2	-	-	-	-	18
Out	5	1	-	-	-	1	-	-	-	1	-	1	-	2	-	-	-	3	-	-	-	2	-	-	-	2	-	-	-	-	18

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 8 / ML018 VA CLASS ES MODERNIZATION SEI/CMF

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	4.290	0.058	-	-	-	-	-	-	-	-	-	4.348
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	4.290	0.058	-	-	-	-	-	-	-	-	-	4.348
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	4.290	0.058	-	-	-	-	-	-	-	-	-	4.348
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Procures Capability Insertion Auto Signal Emitter ID (SEI)/Common Message Format(CMF) for installation on VIRGINIA Class submarines.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog						Modification Number / Title: 8 / ML018 VA CLASS ES MODERNIZATION SEI/CMF			
Models of Systems Affected: VA CI				Modification Type: SHIPALT					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION SEI/CMF													
B Kits													
Recurring													
1.1.1) VA SEI/CMF - NonOrganic		6 / 3.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.559	
Subtotal: Recurring		- / 3.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.559	
Subtotal: ML018 VA CLASS ES MODERNIZATION SEI/ CMF		6 / 3.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.559	
Subtotal: Procurement, All Modification Items		- / 3.559	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.559	
Installation													
Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION SEI/CMF		- / 0.731	- / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.789	
Subtotal: Installation		- / 0.731	- / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.789	
Total													
Total Cost (Procurement + Support + Installation)		4.290	0.058	-	-	-	-	-	-	-	-	4.348	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 8 / ML018 VA CLASS ES MODERNIZATION SEI/CMF

Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION SEI/CMF

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Syracuse, NY
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: AIT:: Installation Name: VA SEI/CMF

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 0.731	1 / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.789
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 0.731	1 / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.789

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	5	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Out	5	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 9 / ML018 VA CLASS ES MODERNIZATION TECHNICAL INSERTION

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	6.274	0.058	-	-	-	-	-	-	-	-	-	6.332
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	6.274	0.058	-	-	-	-	-	-	-	-	-	6.332
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	6.274	0.058	-	-	-	-	-	-	-	-	-	6.332
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Provides updates to the AN/BLQ-10(V) configuration baseline which incorporates current Commercial off the Shelf (COTS) processing technology and software for obsolescence avoidance, and improved Reliability, Maintainability and Availability (RMA).

Capability and Technical Insertions for AN/BLQ-10(V) provide spiral improvements to the baseline system which are designed to counter against new and evolving threat emitters. This effort specifically provides for ANBLQ-10(V) upgrades and technical H/W and S/W changes that will provide commonality in processors, receivers, interoperability improvements and functional software upgrades to meet current and future tactical requirements.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6					P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog					Modification Number / Title: 9 / ML018 VA CLASS ES MODERNIZATION TECHNICAL INSERTION			
Models of Systems Affected: VA TI-10					Modification Type: SHIPALT					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Procurement													
<i>Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION TECHNICAL INSERTION</i>													
B Kits													
Recurring													
1.1.1) VA TI-10 - NonOrganic	7 / 4.803	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 4.803
<i>Subtotal: Recurring</i>	- / 4.803	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.803
<i>Subtotal: ML018 VA CLASS ES MODERNIZATION TECHNICAL INSERTION</i>	7 / 4.803	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 4.803
<i>Subtotal: Procurement, All Modification Items</i>	- / 4.803	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.803
Installation													
<i>Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION TECHNICAL INSERTION</i>	- / 1.471	- / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.529
<i>Subtotal: Installation</i>	- / 1.471	- / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.529
Total													
Total Cost (Procurement + Support + Installation)	6.274	0.058	-	-	-	-	-	-	-	-	-	-	6.332

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 9 / ML018 VA CLASS ES MODERNIZATION TECHNICAL INSERTION

Modification Item 1 of 1: ML018 VA CLASS ES MODERNIZATION TECHNICAL INSERTION

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Syracuse, NY
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 16

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: AIT:: Installation Name: VA TI-10

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	6 / 1.471	1 / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.529
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 1.471	1 / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.529

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	6	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Out	6	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6				P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog					Modification Number / Title: 10 / ML020 AN/BLQ-10B (V)			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	10.477	34.279	-	34.279	35.978	27.742	46.129	53.286	6.755	214.646
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	10.477	34.279	-	34.279	35.978	27.742	46.129	53.286	6.755	214.646
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	10.477	34.279	-	34.279	35.978	27.742	46.129	53.286	6.755	214.646
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Procurement of AN/BLQ-10B(V) NRE and modernization kits for ES Modernization upgrades for all submarine platforms. The rapid proliferation of complex radar, communications and navigation equipment available to potential adversaries creates a need for sustained and significant improvements to submarine systems in order to maintain tactical ship safety and operational effectiveness. Commander Submarine Forces and the Submarine Tactical Requirements Group (STRG) raised EW primary mission area in FY12 to be the number one modernization requirement. NRE increase in FY16 due to efforts related to creation of SHIPALT packages for VIRGINIA, LOS ANGELES and SEA WOLF class submarines for TI-16 AN/BLQ-10B and EW Tactical Improvement Set (ETIS) modernization and new construction installations, continued integration of software products with target hardware for current and future Advanced Processor Builds (APBs), as well as procurement of logistics and training products supporting the fielding of AN/BLQ-10B and ETIS systems. FY16 Procurements reflect ETIS kits to be installed in conjunction with TI-16 modernization. ETIS and BLQ-10 Increment I (New Construction) hardware procured jointly with NAVAIR and the US Army leveraging prior NAVAIR funded development and providing a common hardware set for synergistic software solutions to be developed and shared between all three programs.												

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LI 2560 - Submarine Supt Equip Prog
Navy

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6										P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog										Modification Number / Title: 10 / ML020 AN/BLQ-10B (V)											
Modification Item 1 of 1: ML020 AN/BLQ-10B (V)																															
Manufacturer Information																															
Manufacturer Name: TBD															Manufacturer Location: TBD																
Administrative Leadtime (in Months): 6															Production Leadtime (in Months): 12																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates										Mar 2016				Mar 2017				Mar 2018				Mar 2019				Mar 2020					
Delivery Dates										Mar 2017				Mar 2018				Mar 2019				Mar 2020				Mar 2021					
Installation Information																															
Method of Implementation: AIT:: Installation Name: EW Tactical Improvement Set																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.472	- / -	- / -	- / -	- / -	6 / 1.472																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.392	- / -	- / -	- / -	6 / 1.392																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.657	- / -	- / -	7 / 1.657																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.448	- / -	6 / 1.448																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.477	6 / 1.477																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.472	6 / 1.392	7 / 1.657	6 / 1.448	6 / 1.477	31 / 7.446																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	-	3	2	2	-	2	2	2	6	31
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-	2	2	2	-	3	2	2	-	2	2	2	6	31
Method of Implementation: AIT:: Installation Name: AN/BLQ-10B(V) Modernization Kits																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 6	P-1 Line Item Number / Title: 2560 / Submarine Supt Equip Prog	Modification Number / Title: 10 / ML020 AN/BLQ-10B (V)

Modification Item 1 of 1: ML020 AN/BLQ-10B (V)

Installation Information

Method of Implementation: AIT:: Installation Name: AN/BLQ-10B(V) Modernization Kits

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.300	1 / 1.300
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.978	3 / 3.978
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.278	4 / 5.278

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	

Footnotes:

⁽⁵⁾ FY16 Procurements provide initial hardware in support of digital EW system transformation mandated by OPNAV. ETIS introduces limited digital capability to AN/BLQ-10A. ETIS kits will be provided in conjunction with SWFTS modernizations.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment							P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items: 0603755N, 0603658N					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	727.133	29.592	33.939	25.695	-	25.695	29.336	29.983	30.704	31.349	91.885	1,029.616
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	727.133	29.592	33.939	25.695	-	25.695	29.336	29.983	30.704	31.349	91.885	1,029.616
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	727.133	29.592	33.939	25.695	-	25.695	29.336	29.983	30.704	31.349	91.885	1,029.616
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	1.894	0.986	1.413	-	1.413	0.798	0.961	0.743	0.368	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Cooperative Engagement Capability (CEC) significantly improves Battle Force Anti-Air Warfare (AAW) capability by coordinating all Battle Force AAW sensors into a single, real-time, composite track picture capable of fire control quality. CEC distributes sensor data from each ship and aircraft, or cooperating unit (CU), to all other CUs in the battle force through a real-time, line of sight, high data rate sensor and engagement data distribution network. CEC is highly resistant to jamming and provides accurate gridlocking between CUs. Each CU independently employs high capacity, parallel processing and advanced algorithms to combine all distributed sensor data into a fire control quality track picture which is the same for all CUs. CEC data is presented as a superset of the best AAW sensor capabilities from each CU, all of which are integrated into a single input to each CU's combat weapons system. CEC significantly improves our Battle Force defense in depth, including both local area and ship defense capabilities against current and future AAW threats. Moreover, CEC provides critical connectivity and integration of over-land air defense systems capable of countering emerging air threats, including land attack cruise missiles, in a complex littoral environment. CEC consists of the Data Distribution System (DDS), the Cooperative Engagement Processor (CEP), and Combat System modifications. The DDS encodes and distributes ownship sensor and engagement data and is a high capacity, jam resistant, directive system providing a precision gridlocking and high throughput of data. The CEP is a high capacity distributed processor that is able to process force levels of data in near real-time. This data is passed to the ship's combat system as high quality data for which the ship can cue its onboard sensors or use the data to engage targets without actually tracking them. The Navy has begun implementation of a Pre-Planned Product Improvement (P3I) approach to modify the current equipment to meet reduced size, weight, cost, power and cooling objectives. This P3I approach also supports continuity for interoperability improvements and program protection, as well as supporting open architecture initiatives and comms independence. P3I will provide hardware which complies with Category 3 Open Architecture Core Environment (OACE) standards with rehosted existing software, which will be fielded fleet-wide to allow affordable replacement of obsolete computing system components and eliminate dependencies on "closed" equipment, operating systems, and middleware. A family of antennas approach will be used to satisfy CEC requirements with lower life cycle costs (procurement, installation, and maintenance) and reduced weight (on mast and below deck). These antennas enable future capability as well as providing a solution extensible to additional platforms. A competitive contract for Common Array Block (CAB) antenna development and production was awarded late FY13. CAB procurements will commence in FY15. CEC is planned for shipboard installations at various Naval and commercial shipyards aboard CG/CG Mod, DDG/DDG Mod, CV/CVN, LHD, DDG 1000, and LHA ship classes during scheduled ship availability periods and at land based test sites (LBTS). [P40A / UC002 - AN/UYQ-70 DISPLAY]: This is a sunk cost to fund the procurement of the AN/UYQ-70 display system for use and integration with the CEC system.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment		P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items: 0603755N, 0603658N	Other Related Program Elements:
[P40A / UC004 - ECP/KIT PROCUREMENT]: These funds are for the procurement and installation of Engineering Change Proposals (ECPs) and Field Change Kits to address CEC parts obsolescence associated with interfacing systems on multiple platforms.		
[P40A / UC005 - NON-RECURRING DEPOT COST]: This is a sunk cost to establish a depot for the CEC system.		
[P40A / UC006 - VISUAL INTERACTIVE SIMULATED TRAINING APPLICATION (VISTA) TRAINING]: This is a sunk cost to fund VISTA training related to the CEC system.		
[P40A / UC008 - SUPPLY SUPPORT]: This is a sunk cost for Supply Support for the CEC system.		
[P40A / UC011 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS)]: Funds are for the procurement of Signal Data Processors (SDP) backfits at Land Based Test Sites (LBTs). There are no installation costs associated with these procurements because the installations will be performed by employees at the LBTs.		
[P40A / UC013 - AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2)]: Funds are for the procurement of AN/USG-2B hardware conversion kits for the CEC AN/USG-2 system configuration.		
[P40A / UC014 - AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2A)]: Funds are for the procurement of AN/USG-2B hardware conversion kits for the AN/USG-2A CEC system configuration.		
[P40A / UC015 - AN/USG-2B HARDWARE CONVERSION KITS (LBTS)]: Funds are for the procurement of AN/USG-2B hardware conversion kits for CEC Land Based Test Sites.		
[P40A / UC830 - PRODUCTION ENGR. SUPPORT]: These funds are for production engineering support for CEC systems.		
[P40A / UCCA1 - CONGRESSIONAL ADD]: These are Congressional add funds.		
[P3A / UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B)]: These funds are for the procurement of CEC to backfit CG, DDG, CV/CVN, and LHD ship classes, as well as various Land Based Test Sites (LBTs).		
[P3A - 2 / UC003 - PAAA BACKFIT KITS]: These funds are for the procurement of Planar Antenna Array Assembly (PAAA) backfit kits.		
[P3A - 3 / UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/USG-2)]: Funds are for the procurement of Signal Data Processors (SDP) backfits.		
[P3A - 4 / UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A)]: Funds are for the procurement of Signal Data Processors (SDP) backfits for AN/USG-2A equipment.		
[P3A - 5 / UC012 - COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD]: Funds are for the procurement of Common Array Block (CAB) antennas for shipboard AN/USG-2B systems.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment				P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items: 0603755N, 0603658N			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
COOPERATIVE ENGAGEMENT CAPABILITY	P-40a, P-5a		- / 243.161	- / 13.532	- / 11.754	- / 5.688	- / -	- / 5.688
1 / UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B) (SGAAW)	P-3a		- / 432.596	- / 4.854	- / 0.132	- / 6.507	- / -	- / 6.507
2 / UC003 - PAAA BACKFIT KITS (SGAAW)	P-3a		- / 36.241	- / 4.501	- / 10.009	- / 1.890	- / -	- / 1.890
3 / UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/USG-2) (SGAAW)	P-3a		- / 9.577	- / 3.927	- / 5.721	- / 5.786	- / -	- / 5.786
4 / UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A) (SGAAW)	P-3a		- / 5.558	- / 2.778	- / 2.923	- / 1.927	- / -	- / 1.927
5 / UC012 - COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD (SGAAW)	P-3a		- / 0.000	- / -	- / 3.400	- / 3.897	- / -	- / 3.897
Total Gross/Weapon System Cost			- / 727.133	- / 29.592	- / 33.939	- / 25.695	- / -	- / 25.695
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
COOPERATIVE ENGAGEMENT CAPABILITY	P-40a, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B) (SGAAW)	P-3a		- / 5.299	- / 6.855	- / 6.971	- / 1.579	- / 8.394	- / 473.187
2 / UC003 - PAAA BACKFIT KITS (SGAAW)	P-3a		- / 2.332	- / -	- / -	- / -	- / -	- / 54.973
3 / UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/USG-2) (SGAAW)	P-3a		- / 5.590	- / 4.763	- / 2.981	- / 1.964	- / 0.623	- / 40.932
4 / UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A) (SGAAW)	P-3a		- / 1.925	- / 1.141	- / 0.648	- / 0.082	- / 0.216	- / 17.198
5 / UC012 - COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD (SGAAW)	P-3a		- / 5.640	- / 8.029	- / 14.241	- / 22.218	- / 82.652	- / 140.077
Total Gross/Weapon System Cost			- / 29.336	- / 29.983	- / 30.704	- / 31.349	- / 91.885	- / 1,029.616
*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 add due to rounding.								
Justification: Funds are to procure hardware and provide associated support for the CEC system. Requirements are driven by planned procurements of CEC for LHD-2-6, Planar Antenna Array Assembly (PAAA) antennas, and Signal Data Processor (SDP) backfit kits.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7								P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability							Aggregated Items Title: COOPERATIVE ENGAGEMENT CAPABILITY				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) UC002 - AN/UYQ-70 DISPLAY																				
1.1) AN/UYQ-70 DISPLAY	A		-	-	21.493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) UC002 - AN/UYQ-70 DISPLAY			-	-	21.493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) UC004 - ECP/KIT PROCUREMENT																				
2.1) ECP/KIT PROCUREMENT	A		-	-	89.705	-	-	4.123	-	-	4.016	-	-	2.629	-	-	-	-	2.629	
Subtotal: 2) UC004 - ECP/KIT PROCUREMENT			-	-	89.705	-	-	4.123	-	-	4.016	-	-	2.629	-	-	-	-	2.629	
3) UC005 - NON-RECURRING DEPOT COST																				
3.1) NON-RECURRING DEPOT SUPPORT	A		-	-	4.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 3) UC005 - NON-RECURRING DEPOT COST			-	-	4.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4) UC006 - VISUAL INTERACTIVE SIMULATED TRAINING APPLICATION (VISTA) TRAINING																				
4.1) VISUAL INTERACTIVE SIMULATED TRAINING APPLICATION (VISTA) TRAINING	A		-	-	0.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 4) UC006 - VISUAL INTERACTIVE SIMULATED TRAINING APPLICATION (VISTA) TRAINING			-	-	0.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5) UC008 - SUPPLY SUPPORT																				
5.1) SUPPLY SUPPORT	A		-	-	6.094	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 5) UC008 - SUPPLY SUPPORT			-	-	6.094	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6) UC011 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS)																				
6.1) SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS) ^(†)	A		532,125.00	8	4.257	194,094.00	3	0.582	218,500.00	2	0.437	-	-	-	-	-	-	-	-	
Subtotal: 6) UC011 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS)			-	-	4.257	-	-	0.582	-	-	0.437	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7								P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability							Aggregated Items Title: COOPERATIVE ENGAGEMENT CAPABILITY				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) UC013 - AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2)																				
7.1) AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2) ^(†)	A		-	-	-	361,750.00	8	2.894	369,000.00	8	2.952	376,500.00	2	0.753	-	-	-	376,500.00	2	0.753
Subtotal: 7) UC013 - AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2)			-	-	0.000	-	-	2.894	-	-	2.952	-	-	0.753	-	-	-	-	-	0.753
8) UC014 - AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2A)																				
8.1) AN/USG-2B HARDWARE CONVERSION KIT (AN/USG-2A) ^(†)	A		-	-	-	276,060.00	7	1.932	281,666.67	3	0.845	287,000.00	1	0.287	-	-	-	287,000.00	1	0.287
Subtotal: 8) UC014 - AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2A)			-	-	0.000	-	-	1.932	-	-	0.845	-	-	0.287	-	-	-	-	-	0.287
9) UC015 - AN/USG-2B HARDWARE CONVERSION KITS (LBTS)																				
9.1) AN/USG-2B HARDWARE CONVERSION KITS (LBTS) ^(†)	A		-	-	-	364,410.00	3	1.093	371,500.00	2	0.743	-	-	-	-	-	-	-	-	-
Subtotal: 9) UC015 - AN/USG-2B HARDWARE CONVERSION KITS (LBTS)			-	-	0.000	-	-	1.093	-	-	0.743	-	-	-	-	-	-	-	-	-
10) UC830 - PRODUCTION ENGR. SUPPORT																				
10.1) PRODUCTION ENGR. SUPPORT	A		-	-	78.873	-	-	2.908	-	-	2.761	-	-	2.019	-	-	-	-	-	2.019
Subtotal: 10) UC830 - PRODUCTION ENGR. SUPPORT			-	-	78.873	-	-	2.908	-	-	2.761	-	-	2.019	-	-	-	-	-	2.019
11) UCCA1 - CONGRESSIONAL ADD																				
11.1) CONGRESSIONAL ADD	A		-	-	23.249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 11) UCCA1 - CONGRESSIONAL ADD			-	-	23.249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12) UC6IN - NON-FMP INSTALLATION																				
12.1) NON-FMP INSTALLATION	A		-	-	14.290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7								P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability							Aggregated Items Title: COOPERATIVE ENGAGEMENT CAPABILITY				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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: 12) UC6IN - NON-FMP INSTALLATION			-	-	14.290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	243.161	-	-	13.532	-	-	11.754	-	-	5.688	-	-	-	-	-	5.688

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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) UC002 - AN/UYQ-70 DISPLAY																				
1.1) AN/UYQ-70 DISPLAY	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) UC002 - AN/UYQ-70 DISPLAY			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) UC004 - ECP/KIT PROCUREMENT																				
2.1) ECP/KIT PROCUREMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) UC004 - ECP/KIT PROCUREMENT			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3) UC005 - NON-RECURRING DEPOT COST																				
3.1) NON-RECURRING DEPOT SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 3) UC005 - NON-RECURRING DEPOT COST			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4) UC006 - VISUAL INTERACTIVE SIMULATED TRAINING APPLICATION (VISTA) TRAINING																				
4.1) VISUAL INTERACTIVE SIMULATED TRAINING APPLICATION (VISTA) TRAINING	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 4) UC006 - VISUAL INTERACTIVE SIMULATED TRAINING APPLICATION (VISTA) TRAINING			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5) UC008 - SUPPLY SUPPORT																				
5.1) SUPPLY SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability									Aggregated Items Title: COOPERATIVE ENGAGEMENT CAPABILITY					
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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: 5) UC008 - SUPPLY SUPPORT			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6) UC011 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS)																				
6.1) SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS) ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 6) UC011 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7) UC013 - AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2)																				
7.1) AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2) ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 7) UC013 - AN/ USG-2B HARDWARE CONVERSION KITS (AN/ USG-2)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8) UC014 - AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2A)																				
8.1) AN/USG-2B HARDWARE CONVERSION KIT (AN/USG-2A) ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 8) UC014 - AN/ USG-2B HARDWARE CONVERSION KITS (AN/ USG-2A)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9) UC015 - AN/USG-2B HARDWARE CONVERSION KITS (LBTS)																				
9.1) AN/USG-2B HARDWARE CONVERSION KITS (LBTS) ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 9) UC015 - AN/ USG-2B HARDWARE CONVERSION KITS (LBTS)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10) UC830 - PRODUCTION ENGR. SUPPORT																				
10.1) PRODUCTION ENGR. SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 10) UC830 - PRODUCTION ENGR. SUPPORT			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7							P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability								Aggregated Items Title: COOPERATIVE ENGAGEMENT CAPABILITY					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
11) UCCA1 - CONGRESSIONAL ADD																				
11.1) CONGRESSIONAL ADD	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 11) UCCA1 - CONGRESSIONAL ADD			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12) UC6IN - NON-FMP INSTALLATION																				
12.1) NON-FMP INSTALLATION	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 12) UC6IN - NON-FMP INSTALLATION			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7			P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability					Aggregated Items: COOPERATIVE ENGAGEMENT CAPABILITY				
Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
6) UC011 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS)												
6.1) SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS)		2011	Sechan Electronics, Inc. / Lititz, PA	C / IDIQ	Washington, DC	Dec 2011	Jun 2013	5	450,000.00	Y		Dec 2010
6.1) SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS)		2012	Sechan Electronics, Inc. / Lititz, PA	SS / IDIQ	Washington, DC	Dec 2012	Jun 2014	3	669,000.00	Y		
6.1) SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS)		2014	Sechan Electronics, Inc. / Lititz, PA	SS / IDIQ	Washington, DC	May 2014	Nov 2015	3	194,094.00	Y		
6.1) SIGNAL DATA PROCESSORS (SDP) BACKFITS (LBTS)		2015	Sechan Electronics, Inc. / Lititz, PA	SS / IDIQ	Washington, DC	Mar 2015	Sep 2016	2	218,500.00	Y		
7) UC013 - AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2)												
7.1) AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2)		2014 (1)	Raytheon / St. Petersburg, FL	SS / FFP	Washington, DC	Apr 2014	Jun 2015	8	361,750.00	Y		
7.1) AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2)		2015	TBD / TBD	C / FFP	Washington, DC	Mar 2015	May 2016	8	369,000.00	Y		Apr 2014
7.1) AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2)		2016	TBD / TBD	SS / FFP	Washington, DC	Mar 2016	May 2017	2	376,500.00	Y		
8) UC014 - AN/USG-2B HARDWARE CONVERSION KITS (AN/USG-2A)												
8.1) AN/USG-2B HARDWARE CONVERSION KIT (AN/USG-2A)		2014 (2)	Raytheon / St. Petersburg, FL	SS / FFP	Washington, DC	Apr 2014	Jun 2015	7	276,060.00	Y		
8.1) AN/USG-2B HARDWARE CONVERSION KIT (AN/USG-2A)		2015	TBD / TBD	C / FFP	Washington, DC	Mar 2015	May 2016	3	281,666.67	Y		Apr 2014
8.1) AN/USG-2B HARDWARE CONVERSION KIT (AN/USG-2A)		2016	TBD / TBD	SS / FFP	Washington, DC	Mar 2016	May 2017	1	287,000.00	Y		
9) UC015 - AN/USG-2B HARDWARE CONVERSION KITS (LBTS)												
9.1) AN/USG-2B HARDWARE CONVERSION KITS (LBTS)		2014 (3)	Raytheon / St. Petersburg, FL	SS / FFP	Washington, DC	Apr 2014	Jun 2015	3	364,410.00	Y		
9.1) AN/USG-2B HARDWARE CONVERSION KITS (LBTS)		2015	TBD / TBD	C / FFP	Washington, DC	Mar 2015	May 2016	2	371,500.00	Y		Apr 2014
Footnotes: (1) The last option year under the current CEC Production contract is FY 2014. A competitive follow-on CEC Production contract is anticipated to be awarded in FY 2015. (2) The last option year under the current CEC Production contract is FY 2014. A competitive follow-on CEC Production contract is anticipated to be awarded in FY 2015. (3) The last option year under the current CEC Production contract is FY 2014. A competitive follow-on CEC Production contract is anticipated to be awarded in FY 2015.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability	Modification Number / Title: 1 / UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	432.596	4.854	0.132	6.507	-	6.507	5.299	6.855	6.971	1.579	8.394	473.187
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	432.596	4.854	0.132	6.507	-	6.507	5.299	6.855	6.971	1.579	8.394	473.187
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	432.596	4.854	0.132	6.507	-	6.507	5.299	6.855	6.971	1.579	8.394	473.187
(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:

Strike Group Anti-Air Warfare (AAW) Improvement

[COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B)] The FY15 system procurement moved to FY19 due to a change in the LHD Capstone schedule.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability				Modification Number / Title: 1 / UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B)					
Models of Systems Affected: UC001 COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (CETPS) (AN/USG-2/2A/2B)				Modification Type: SGAAW				Related RDT&E PEs: 0603755N, 0603658N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B)													
B Kits													
Recurring													
1.1.1) COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B) - NonOrganic	47 / 359.673	1 / 4.854	- / -	1 / 5.060	- / -	1 / 5.060	1 / 5.167	1 / 5.276	1 / 5.392	- / -	1 / 5.500	53 / 390.922	
Subtotal: Recurring	- / 359.673	- / 4.854	- / -	- / 5.060	- / -	- / 5.060	- / 5.167	- / 5.276	- / 5.392	- / -	- / 5.500	- / 390.922	
Subtotal: UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B)	47 / 359.673	1 / 4.854	- / -	1 / 5.060	- / -	1 / 5.060	1 / 5.167	1 / 5.276	1 / 5.392	- / -	1 / 5.500	53 / 390.922	
Subtotal: Procurement, All Modification Items	- / 359.673	- / 4.854	- / -	- / 5.060	- / -	- / 5.060	- / 5.167	- / 5.276	- / 5.392	- / -	- / 5.500	- / 390.922	
Installation													
Modification Item 1 of 1: UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B)	- / 72.923	- / -	- / 0.132	- / 1.447	- / -	- / 1.447	- / 0.132	- / 1.579	- / 1.579	- / 1.579	- / 2.894	- / 82.265	
Subtotal: Installation	- / 72.923	- / -	- / 0.132	- / 1.447	- / -	- / 1.447	- / 0.132	- / 1.579	- / 1.579	- / 1.579	- / 2.894	- / 82.265	
Total													
Total Cost (Procurement + Support + Installation)	432.596	4.854	0.132	6.507	-	6.507	5.299	6.855	6.971	1.579	8.394	473.187	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability	Modification Number / Title: 1 / UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B)

Modification Item 1 of 1: UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B)

Manufacturer Information

Manufacturer Name: RAYTHEON ⁽⁴⁾				Manufacturer Location: ST. PETERSBURG, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013						
Delivery Dates	May 2015						
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Mar 2016	Mar 2017	Mar 2018	Mar 2019	
Delivery Dates			Sep 2017	Sep 2018	Sep 2019	Sep 2020	

Installation Information

Method of Implementation: ALTERATION INSTALLATION TEAM (AIT):: Installation Name: COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSI

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	47 / 72.923	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 72.923
FY 2014	- / -	- / -	- / 0.132	1 / 1.447	- / -	1 / 1.447	- / -	- / -	- / -	- / -	- / -	1 / 1.579
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.132	1 / 1.447	- / -	- / -	- / -	1 / 1.579
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.132	1 / 1.447	- / -	- / -	1 / 1.579
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.132	1 / 1.447	- / -	1 / 1.579
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.132	1 / 1.447	1 / 1.579
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.447	1 / 1.447
Total	47 / 72.923	- / -	- / 0.132	1 / 1.447	- / -	1 / 1.447	- / 0.132	1 / 1.579	1 / 1.579	1 / 1.579	2 / 2.894	53 / 82.265

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability	Modification Number / Title: 1 / UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B)

Modification Item 1 of 1: UC001 - COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSING SET (USG-2/2A/2B)

Installation Information

Method of Implementation: ALTERATION INSTALLATION TEAM (AIT):: Installation Name: COOPERATIVE ENGAGEMENT TRANSMISSION PROCESSI

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	47	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	1	-	2	53
Out	47	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	1	-	2	53

Footnotes:

⁽⁴⁾ The last option year under the current CEC Production contract is FY 2014. A competitive follow-on CEC Production contract is anticipated to be awarded in FY 2015.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability					Modification Number / Title: 2 / UC003 - PAAA BACKFIT KITS			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	36.241	4.501	10.009	1.890	-	1.890	2.332	-	-	-	-	54.973
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	36.241	4.501	10.009	1.890	-	1.890	2.332	-	-	-	-	54.973
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	36.241	4.501	10.009	1.890	-	1.890	2.332	-	-	-	-	54.973
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Strike Group Anti-Air Warfare (AAW) Improvement. The PAAA Backfit Kit procurements will be replaced with Common Array Block (CAB) - Shipboard Antenna procurements commencing in FY16.

[PAAA BACKFIT KITS] The 2 PAAA antennas being procured in FY15 will replace 2 older SBAA antennas currently in the Fleet. These SBAA's are very expensive to maintain and some of the parts are becoming obsolete.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability				Modification Number / Title: 2 / UC003 - PAAA BACKFIT KITS					
Models of Systems Affected: UC003 PAAA BACKFIT KITS				Modification Type: SGAAW				Related RDT&E PEs: 0603755N, 0603658N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: UC003 - PAAA BACKFIT KITS													
B Kits													
Non-Recurring													
1.1.1) PAAA BACKFIT KITS - NonOrganic	8 / 28.501	1 / 3.100	2 / 6.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 37.801	
Subtotal: Non-Recurring	- / 28.501	- / 3.100	- / 6.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.801	
Subtotal: UC003 - PAAA BACKFIT KITS	8 / 28.501	1 / 3.100	2 / 6.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 37.801	
Subtotal: Procurement, All Modification Items	- / 28.501	- / 3.100	- / 6.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 37.801	
Installation													
Modification Item 1 of 1: UC003 - PAAA BACKFIT KITS	- / 7.740	- / 1.401	- / 3.809	- / 1.890	- / -	- / 1.890	- / 2.332	- / -	- / -	- / -	- / -	- / 17.172	
Subtotal: Installation	- / 7.740	- / 1.401	- / 3.809	- / 1.890	- / -	- / 1.890	- / 2.332	- / -	- / -	- / -	- / -	- / 17.172	
Total													
Total Cost (Procurement + Support + Installation)	36.241	4.501	10.009	1.890	-	1.890	2.332	-	-	-	-	54.973	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7										P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability										Modification Number / Title: 2 / UC003 - PAAA BACKFIT KITS												
Modification Item 1 of 1: UC003 - PAAA BACKFIT KITS																																
Manufacturer Information																																
Manufacturer Name: RAYTHEON ⁽⁵⁾															Manufacturer Location: ST. PETERSBURG, FL																	
Administrative Leadtime (in Months): 1															Production Leadtime (in Months): 18																	
Dates		FY 2014			FY 2015			FY 2016			FY 2017			FY 2018			FY 2019			FY 2020												
Contract Dates		Dec 2013																														
Delivery Dates		May 2015																														
Manufacturer Name: TBD															Manufacturer Location: TBD																	
Administrative Leadtime (in Months): 1															Production Leadtime (in Months): 18																	
Dates		FY 2014			FY 2015			FY 2016			FY 2017			FY 2018			FY 2019			FY 2020												
Contract Dates					Mar 2015																											
Delivery Dates					Sep 2016																											
Installation Information																																
Method of Implementation: ALTERATION INSTALLATION TEAM (AIT):: Installation Name: PAAA BACKFIT KITS																																
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																			
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																		
Prior Years		4 / 7.740	1 / 1.401	3 / 3.498	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 12.639																			
FY 2014		- / -	- / -	- / 0.311	1 / 1.166	- / -	1 / 1.166	- / -	- / -	- / -	- / -	- / -	1 / 1.477																			
FY 2015		- / -	- / -	- / -	- / 0.724	- / -	- / 0.724	2 / 2.332	- / -	- / -	- / -	- / -	2 / 3.056																			
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total		4 / 7.740	1 / 1.401	3 / 3.809	1 / 1.890	- / -	1 / 1.890	2 / 2.332	- / -	- / -	- / -	- / -	11 / 17.172																			
Installation Schedule																																
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	4	-	-	1	-	1	-	2	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
Out	4	-	-	1	-	1	-	2	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability	Modification Number / Title: 2 / UC003 - PAAA BACKFIT KITS

Footnotes:
(5) PAAA Backfit Kits are partial systems. The last option year under the current CEC Production contract is FY 2014. A competitive follow-on CEC Production contract is anticipated to be awarded in FY 2015.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability	Modification Number / Title: 3 / UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/ USG-2)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	9.577	3.927	5.721	5.786	-	5.786	5.590	4.763	2.981	1.964	0.623	40.932
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	9.577	3.927	5.721	5.786	-	5.786	5.590	4.763	2.981	1.964	0.623	40.932
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	9.577	3.927	5.721	5.786	-	5.786	5.590	4.763	2.981	1.964	0.623	40.932
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Strike Group Anti-Air Warfare (AAW) Improvement. Funds are for the procurement of Signal Data Processors (SDP) backfits.

[SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2)] Prior Year and FY12 includes funding to procure AN/USG-2B hardware conversion kits. A new cost code (UC013) was created and the funding for the hardware conversion kits has been realigned to this cost code for FY13-18.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability						Modification Number / Title: 3 / UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/ USG-2)			
Models of Systems Affected: UC009 SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2)				Modification Type: SGAAW					Related RDT&E PEs: 0603755N, 0603658N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/USG-2)													
B Kits													
Recurring													
1.1.1) SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2) - NonOrganic	11 / 8.593	8 / 1.553	8 / 1.748	2 / 0.446	- / -	2 / 0.446	6 / 1.364	5 / 1.159	- / -	- / -	- / -	40 / 14.863	
Subtotal: Recurring	- / 8.593	- / 1.553	- / 1.748	- / 0.446	- / -	- / 0.446	- / 1.364	- / 1.159	- / -	- / -	- / -	- / 14.863	
Subtotal: UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/USG-2)	11 / 8.593	8 / 1.553	8 / 1.748	2 / 0.446	- / -	2 / 0.446	6 / 1.364	5 / 1.159	- / -	- / -	- / -	40 / 14.863	
Subtotal: Procurement, All Modification Items	- / 8.593	- / 1.553	- / 1.748	- / 0.446	- / -	- / 0.446	- / 1.364	- / 1.159	- / -	- / -	- / -	- / 14.863	
Installation													
Modification Item 1 of 1: UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/USG-2)	- / 0.984	- / 2.374	- / 3.973	- / 5.340	- / -	- / 5.340	- / 4.226	- / 3.604	- / 2.981	- / 1.964	- / 0.623	- / 26.069	
Subtotal: Installation	- / 0.984	- / 2.374	- / 3.973	- / 5.340	- / -	- / 5.340	- / 4.226	- / 3.604	- / 2.981	- / 1.964	- / 0.623	- / 26.069	
Total													
Total Cost (Procurement + Support + Installation)	9.577	3.927	5.721	5.786	-	5.786	5.590	4.763	2.981	1.964	0.623	40.932	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability	Modification Number / Title: 3 / UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/USG-2)

Modification Item 1 of 1: UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/USG-2)

Manufacturer Information

Manufacturer Name: Sechan Electronics, Inc. ⁽⁶⁾				Manufacturer Location: Lititz, PA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	May 2014	Mar 2015					
Delivery Dates	Nov 2015	Sep 2016					
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Mar 2016	Mar 2017	Mar 2018		
Delivery Dates			Sep 2017	Sep 2018	Sep 2019		

Installation Information

Method of Implementation: ALTERATION INSTALLATION TEAM (AIT):: Installation Name: SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/US

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.984	3 / 2.374	4 / 3.973	3 / 1.548	- / 0.000	3 / 1.548	- / -	- / -	- / -	- / -	- / -	11 / 8.879
FY 2014	- / -	- / -	- / -	6 / 2.946	- / -	6 / 2.946	2 / 0.982	- / -	- / -	- / -	- / -	8 / 3.928
FY 2015	- / -	- / -	- / -	- / 0.846	- / -	- / 0.846	5 / 2.455	3 / 1.473	- / -	- / -	- / -	8 / 4.774
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.789	2 / 0.982	- / -	- / -	- / -	2 / 1.771
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.149	5 / 2.455	- / -	- / -	6 / 3.604
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.526	4 / 1.964	1 / 0.623	5 / 3.113
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.984	3 / 2.374	4 / 3.973	9 / 5.340	- / -	9 / 5.340	7 / 4.226	6 / 3.604	5 / 2.981	4 / 1.964	1 / 0.623	40 / 26.069

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability	Modification Number / Title: 3 / UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/ USG-2)

Modification Item 1 of 1: UC009 - SIGNAL DATA PROCESSOR (SDP) BACKFITS (AN/USG-2)

Installation Information

Method of Implementation: ALTERATION INSTALLATION TEAM (AIT):: Installation Name: SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/US

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	-	3	-	1	1	2	3	4	1	1	1	1	3	2	2	1	2	1	1	1	1	2	-	2	-	2	1	40
Out	1	-	-	-	3	-	1	1	2	3	4	1	1	1	1	3	2	2	1	2	1	1	1	1	2	-	2	-	2	1	40

Footnotes:

⁽⁶⁾ The last option year under the current SDP-S Production contract is FY 2015. A competitive follow-on SDP-S Production contract is anticipated to be awarded in FY 2016.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability	Modification Number / Title: 4 / UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	5.558	2.778	2.923	1.927	-	1.927	1.925	1.141	0.648	0.082	0.216	17.198
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	5.558	2.778	2.923	1.927	-	1.927	1.925	1.141	0.648	0.082	0.216	17.198
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5.558	2.778	2.923	1.927	-	1.927	1.925	1.141	0.648	0.082	0.216	17.198
(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:

Strike Group Anti-Air Warfare (AAW) Improvement. Funds are for the procurement of Signal Data Processors (SDP) backfits for AN/USG-2A equipment.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability						Modification Number / Title: 4 / UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A)			
Models of Systems Affected: UC010 SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A)				Modification Type: SGAAW					Related RDT&E PEs: 0603658N, 0603755N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A)													
B Kits													
Recurring													
1.1.1) SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A) - NonOrganic	10 / 5.295	7 / 1.359	3 / 0.655	1 / 0.223	- / -	1 / 0.223	3 / 0.682	2 / 0.464	- / -	- / -	- / -	26 / 8.678	
Subtotal: Recurring	- / 5.295	- / 1.359	- / 0.655	- / 0.223	- / -	- / 0.223	- / 0.682	- / 0.464	- / -	- / -	- / -	- / 8.678	
Subtotal: UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A)	10 / 5.295	7 / 1.359	3 / 0.655	1 / 0.223	- / -	1 / 0.223	3 / 0.682	2 / 0.464	- / -	- / -	- / -	26 / 8.678	
Subtotal: Procurement, All Modification Items	- / 5.295	- / 1.359	- / 0.655	- / 0.223	- / -	- / 0.223	- / 0.682	- / 0.464	- / -	- / -	- / -	- / 8.678	
Installation													
Modification Item 1 of 1: UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A)	- / 0.263	- / 1.419	- / 2.268	- / 1.704	- / -	- / 1.704	- / 1.243	- / 0.677	- / 0.648	- / 0.082	- / 0.216	- / 8.520	
Subtotal: Installation	- / 0.263	- / 1.419	- / 2.268	- / 1.704	- / -	- / 1.704	- / 1.243	- / 0.677	- / 0.648	- / 0.082	- / 0.216	- / 8.520	
Total													
Total Cost (Procurement + Support + Installation)	5.558	2.778	2.923	1.927	-	1.927	1.925	1.141	0.648	0.082	0.216	17.198	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability	Modification Number / Title: 4 / UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A)

Modification Item 1 of 1: UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A)

Manufacturer Information

Manufacturer Name: Sechan Electronics, Inc. ⁽⁷⁾				Manufacturer Location: Lititz, PA			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Apr 2014	Mar 2015					
Delivery Dates	Oct 2015	Sep 2016					
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Mar 2016	Mar 2017	Mar 2018		
Delivery Dates			Sep 2017	Sep 2018	Sep 2019		

Installation Information

Method of Implementation: ALTERATION INSTALLATION TEAM (AIT):: Installation Name: SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/US

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.263	1 / 1.419	8 / 1.810	1 / 0.216	- / 0.000	1 / 0.216	- / -	- / -	- / -	- / -	- / -	10 / 3.708
FY 2014	- / -	- / -	- / 0.458	5 / 1.080	- / -	5 / 1.080	2 / 0.432	- / -	- / -	- / -	- / -	7 / 1.970
FY 2015	- / -	- / -	- / -	- / 0.408	- / -	- / 0.408	3 / 0.648	- / -	- / -	- / -	- / -	3 / 1.056
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.163	1 / 0.216	- / -	- / -	- / -	1 / 0.379
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.216	2 / 0.432	- / -	- / -	3 / 0.648
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.245	1 / 0.216	- / 0.082	1 / 0.216	2 / 0.759
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.263	1 / 1.419	8 / 2.268	6 / 1.704	- / -	6 / 1.704	5 / 1.243	2 / 0.677	3 / 0.648	- / 0.082	1 / 0.216	26 / 8.520

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability	Modification Number / Title: 4 / UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A)

Modification Item 1 of 1: UC010 - SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/USG-2A)

Installation Information

Method of Implementation: ALTERATION INSTALLATION TEAM (AIT):: Installation Name: SIGNAL DATA PROCESSORS (SDP) BACKFITS (AN/US

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	1	-	-	1	2	1	4	1	1	1	3	2	-	1	2	-	1	-	1	1	-	-	2	-	-	-	-	1	26
Out	-	-	1	-	-	1	2	1	4	1	1	1	3	2	-	1	2	-	1	-	1	1	-	-	2	-	-	-	-	1	26

Footnotes:

⁽⁷⁾ The last option year under the current SDP-S Production contract is FY 2015. A competitive follow-on SDP-S Production contract is anticipated to be awarded in FY 2016.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability					Modification Number / Title: 5 / UC012 - COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		0.000	-	3.400	3.897	-	3.897	5.640	8.029	14.241	22.218	82.652	140.077
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>		0.000	-	3.400	3.897	-	3.897	5.640	8.029	14.241	22.218	82.652	140.077
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		0.000	-	3.400	3.897	-	3.897	5.640	8.029	14.241	22.218	82.652	140.077
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Description: Strike Group Anti-Air Warfare (AAW) Improvement. Funds are for the procurement of Common Array Block (CAB) antennas for shipboard AN/USG-2B systems.													

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability					Modification Number / Title: 5 / UC012 - COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD				
Models of Systems Affected: UC012 COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD				Modification Type: SGAAW					Related RDT&E PEs: 0603658N, 0603755N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: UC012 - COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD													
B Kits													
Recurring													
1.1.1) COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD - NonOrganic		- / -	- / -	2 / 3.400	2 / 3.502	- / -	2 / 3.502	2 / 3.608	3 / 5.574	6 / 11.484	9 / 17.739	23 / 45.333	47 / 90.640
Subtotal: Recurring		- / 0.000	- / -	- / 3.400	- / 3.502	- / -	- / 3.502	- / 3.608	- / 5.574	- / 11.484	- / 17.739	- / 45.333	- / 90.640
Subtotal: UC012 - COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD		- / -	- / -	2 / 3.400	2 / 3.502	- / -	2 / 3.502	2 / 3.608	3 / 5.574	6 / 11.484	9 / 17.739	23 / 45.333	47 / 90.640
Subtotal: Procurement, All Modification Items		- / 0.000	- / -	- / 3.400	- / 3.502	- / -	- / 3.502	- / 3.608	- / 5.574	- / 11.484	- / 17.739	- / 45.333	- / 90.640
Installation													
Modification Item 1 of 1: UC012 - COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD		- / 0.000	- / -	- / -	- / 0.395	- / -	- / 0.395	- / 2.032	- / 2.455	- / 2.757	- / 4.479	- / 37.319	- / 49.437
Subtotal: Installation		- / 0.000	- / -	- / -	- / 0.395	- / -	- / 0.395	- / 2.032	- / 2.455	- / 2.757	- / 4.479	- / 37.319	- / 49.437
Total													
Total Cost (Procurement + Support + Installation)		0.000	-	3.400	3.897	-	3.897	5.640	8.029	14.241	22.218	82.652	140.077

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7		P-1 Line Item Number / Title: 2606 / Cooperative Engagement Capability			Modification Number / Title: 5 / UC012 - COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD		

Modification Item 1 of 1: UC012 - COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD

Manufacturer Information

Manufacturer Name: RAYTHEON				Manufacturer Location: ST. PETERSBURG, FL			
Administrative Leadtime (in Months): 18				Production Leadtime (in Months): 18			

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Dec 2014	Dec 2015	Dec 2016	Dec 2017		
Delivery Dates		Jun 2016	Jun 2017	Jun 2018	Jun 2019		

Installation Information

Method of Implementation: ALTERATION INSTALLATION TEAM (AIT):: Installation Name: COMMON ARRAY BLOCK (CAB) ANTENNA - SHIPBOARD

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / 0.395	- / -	- / 0.395	2 / 2.032	- / -	- / -	- / -	- / -	2 / 2.427
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.032	- / -	- / -	- / -	2 / 2.032
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.423	2 / 1.882	- / -	- / -	2 / 2.305
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.875	3 / 2.598	- / -	3 / 3.473
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.881	6 / 5.325	6 / 7.206
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 10.394	9 / 10.394
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 21.600	23 / 21.600
Total	- / -	- / -	- / -	- / 0.395	- / -	- / 0.395	2 / 2.032	2 / 2.455	2 / 2.757	3 / 4.479	38 / 37.319	47 / 49.437

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	1	-	1	1	-	-	-	3	-	38	47
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	1	-	1	1	-	-	-	3	-	38	47

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment	P-1 Line Item Number / Title: 2608 / Trusted Information System (TIS)

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements: 0304231N				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	10.775	0.396	0.324	0.284	-	0.284	0.290	0.295	0.302	0.308	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	10.775	0.396	0.324	0.284	-	0.284	0.290	0.295	0.302	0.308	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	10.775	0.396	0.324	0.284	-	0.284	0.290	0.295	0.302	0.308	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	0.008	-	0.008	0.008	0.008	0.008	-	-	0.032
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Trusted Information System (TIS) Radiant Mercury (RM) system provides the core on-line, automated guarding, sanitization, and transliteration services that provides the United State Navy (USN)'s primary command and control systems with the capability to move data between multiple security domains. RM is a critical component in a wide variety of Navy architectures to include Consolidated Afloat Network Enterprise Services (CANES) and the Maritime Operations Centers (MOC). RM supports numerous programs to include the Navy's Automated Identification System (AIS), Global Command Control Systems-Maritime (GCCS-M), Distributed Common Ground System-Navy (DCGS-N), and Navy Tactical Ranges, Naval Modular Automated Communications System (NAVMACS), and Mobile User Objective System (MUOS). RM architecture provides the capability to move data between security domains in order to maintain Maritime Domain Awareness (MDA) and effectively share information. As the Department of Defense (DoD) Executive Agent for RM the USN also maintains the RM development team, Independent Validation and Verification (IV&V) team, and test facilities for both the DoD and the Intelligence Community. RM is deployed at over 380 sites worldwide with approximately 600 fielded systems. Funds continuous hardware tech refresh at the prime developer and at certification test locations.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment				P-1 Line Item Number / Title: 2608 / Trusted Information System (TIS)				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements: 0304231N		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Trusted Information System (TIS)	P-40a, P-5a		- / 10.775	- / 0.396	- / 0.324	- / 0.284	- / -	- / 0.284
Total Gross/Weapon System Cost			- / 10.775	- / 0.396	- / 0.324	- / 0.284	- / -	- / 0.284
*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 add due to rounding.								

Justification:

The FY 2016 budget will procure and field TIS Radiant Mercury systems.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7								P-1 Line Item Number / Title: 2608 / Trusted Information System (TIS)							Aggregated Items Title: Trusted Information System (TIS)				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
1) TIS Procurements (JG030)																				
1.1) TIS Procurements ^(†)	A		259.162	37	9.589	145.500	2	0.291	104.500	2	0.209	101.500	2	0.203	-	-	-	101.500	2	0.203
Subtotal: 1) TIS Procurements (JG030)			-	-	9.589	-	-	0.291	-	-	0.209	-	-	0.203	-	-	-	-	-	0.203
2) TIS Installations (JG776)																				
2.1) TIS Installations	A		-	-	1.186	-	-	0.105	-	-	0.115	-	-	0.081	-	-	-	-	-	0.081
Subtotal: 2) TIS Installations (JG776)			-	-	1.186	-	-	0.105	-	-	0.115	-	-	0.081	-	-	-	-	-	0.081
Total			-	-	10.775	-	-	0.396	-	-	0.324	-	-	0.284	-	-	-	-	-	0.284

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7			P-1 Line Item Number / Title: 2608 / Trusted Information System (TIS)					Aggregated Items: Trusted Information System (TIS)				
Item Number / Title [DODIC]	OC 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) TIS Procurements (JG030)												
1.1) TIS Procurements		2014	Lockheed Martin / Denver, CO	WR	NSMA, San Diego, CA	Nov 2013	May 2014	2	145.500	Y		
1.1) TIS Procurements		2015	Lockheed Martin / Denver, CO	WR	NSMA, San Diego, CA	Jan 2015	Mar 2015	2	104.500	Y		
1.1) TIS Procurements		2016	Lockheed Martin / Denver, CO	WR	NSMA, San Diego, CA	Jan 2016	Mar 2016	2	101.500	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment							P-1 Line Item Number / Title: 2611 / Naval Tact Cmd Supt Sys (NTCSS)					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	583.802	14.302	18.192	14.416	-	14.416	13.240	10.911	10.157	17.958	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	583.802	14.302	18.192	14.416	-	14.416	13.240	10.911	10.157	17.958	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	583.802	14.302	18.192	14.416	-	14.416	13.240	10.911	10.157	17.958	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.350	0.462	0.219	-	0.219	0.277	0.296	0.303	0.309	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Naval Tactical Command Support System (NTCSS) is a multi-function program designed to provide standard tactical support information systems to various afloat and associated shore-based fleet activities. The mission is to provide the full range of responsive tactical support Automated Data Processing (ADP) hardware and software in support of the management of information, personnel, material and funds required to maintain and operate ships, submarines, and aircraft. NTCSS is to provide an efficient management of afloat tactical support data, through the use of standardized hardware and software, to meet the mission support information management requirements for force sustainment. NTCSS incorporates the functionality of the Shipboard Non-Tactical ADP Program (SNAP) systems, the Naval Aviation Logistics Command Management Information System (NALCOMIS), and the Maintenance Resource Management System (MRMS). SNAP is an automated information system that supports organizational level maintenance, supply, financial and administrative functions on afloat units, at Marine Aviation Logistics Squadrons (MALs) and at associated shore activities. SNAP improves equipment supportability and maintainability and thus readiness through: improvement in the accuracy of maintenance, supply, financial and related support data maintained and reported by the ship; and acceleration of management report preparation and data transmission. The scope of SNAP includes approximately 300 sites. NALCOMIS is an automated, real time, interactive, management information system that provides a modern management tool for day-to-day management of aircraft maintenance at the organizational and intermediate levels. NALCOMIS automates management of the aviation repairables inventory, providing nose-to-tail tracking through the repair and operations cycles. The scope of NALCOMIS includes 66 aviation intermediate maintenance activities located afloat (CV/LHA/LHD/MALS), at Naval Air Stations (NAS), and approximately 326 Navy and Marine Squadrons. MRMS is an automated information system that supports ship intermediate maintenance management of the Atlantic and Pacific Fleets. MRMS supports Type Commands, Group Commanders, Area Coordinators, Readiness Support Groups, Submarine Squadrons, Ship Repair Facilities, and various Intermediate Maintenance Activities, both afloat and ashore, for budgeting, planning, production and analysis of ship maintenance. MRMS improves ship readiness through improved maintenance and ship repair management, information resource management, and maintenance data processing. The scope of MRMS includes approximately 16 shipboard and 65 shore based intermediate and maintenance and planning activities. DY005, Ship Set Equipment Upgrades procures afloat ruggedized, commercial-off-the-shelf (COTS) computing equipment, which includes servers to support the NTCSS application and database, personal computers (PCs) that will interface with the servers for maintenance and supply transactions, and printers to display output. COTS software, which includes the operating system, comes loaded on the servers and PCs.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment		P-1 Line Item Number / Title: 2611 / Naval Tact Cmd Supt Sys (NTCSS)
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
DY006, MALS/Shore Equipment Upgrades procures ashore ruggedized, COTS computing equipment, which includes servers to support the NTCSS application and database, PCs that will interface with the servers for maintenance and supply transactions, and printers to display output. COTS software, which includes the operating system, comes loaded on the servers and PCs.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment					P-1 Line Item Number / Title: 2611 / Naval Tact Cmd Supt Sys (NTCSS)			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / 2611 Naval Tactical Command Support System Ship Set Equipment Upgrades (DY005) ()	P-3a		- / 291.275	- / 7.742	- / 9.079	- / 2.426	- / -	- / 2.426
2 / 2611 Naval Tactical Command Support System MALS/Shore Equipment Upgrades (DY006) ()	P-3a		- / 292.527	- / 6.560	- / 9.113	- / 11.990	- / -	- / 11.990
Total Gross/Weapon System Cost			- / 583.802	- / 14.302	- / 18.192	- / 14.416	- / -	- / 14.416
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / 2611 Naval Tactical Command Support System Ship Set Equipment Upgrades (DY005) ()	P-3a		- / 2.527	- / 3.588	- / 4.319	- / 4.091	Continuing	Continuing
2 / 2611 Naval Tactical Command Support System MALS/Shore Equipment Upgrades (DY006) ()	P-3a		- / 10.713	- / 7.323	- / 5.838	- / 13.867	Continuing	Continuing
Total Gross/Weapon System Cost			- / 13.240	- / 10.911	- / 10.157	- / 17.958	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 add due to rounding.								
Justification: The FY 2016 funding request was reduced by \$3.6 million to account for the availability of prior year execution balances. Funding for FY16 procures: 1) NTCSS system upgrades for ships; 2) NTCSS system upgrades for Naval Air Stations (NAS), Squadrons, Shore Support Facilities, Fleet Training Centers, Marine Aviation Logistics Squadrons (MALS), Navy Expeditionary Combat Command sites, Special Warfare units, and Commander Naval Surface Forces; and 3) necessary production engineering and installation support. NTCSS-Optimized software will continue to be fielded at program-of-record (POR) afloat and ashore sites. Ship set and MALS/Shore equipment upgrades continue; hardware and software upgrades required for obsolescence avoidance.								

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2611 / Naval Tact Cmd Supt Sys (NTCSS)				Modification Number / Title: 1 / 2611 Naval Tactical Command Support System Ship Set Equipment Upgrades (DY005)			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	291.275	7.742	9.079	2.426	-	2.426	2.527	3.588	4.319	4.091	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	291.275	7.742	9.079	2.426	-	2.426	2.527	3.588	4.319	4.091	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	291.275	7.742	9.079	2.426	-	2.426	2.527	3.588	4.319	4.091	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 Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Application subsystems include financial/inventory management, organizational and surface maintenance management, and administrative information systems support. NTCSS procurements will also provide ship capabilities for displaying and storing Computer-aided Acquisition and Logistics Support (CALS) initiative information (digitized engineering drawings, automated technical manuals, etc.).

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2611 / Naval Tact Cmd Supt Sys (NTCSS)				Modification Number / Title: 1 / 2611 Naval Tactical Command Support System Ship Set Equipment Upgrades (DY005)					
Models of Systems Affected: Provides modern centrally-managed mission support Automatic Data Processing (ADP) system upgrades an				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 2611 Naval Tactical Command Support System Ship Set Equipment Upgrades (DY005)													
B Kits													
Recurring													
1.1.1) Equipment - NonOrganic ⁽¹⁾	598 / 148.189	50 / 3.708	47 / 4.326	20 / 1.462	- / -	20 / 1.462	20 / 1.556	28 / 2.219	31 / 2.479	35 / 2.402	Continuing	Continuing	
Subtotal: Recurring	- / 148.189	- / 3.708	- / 4.326	- / 1.462	- / -	- / 1.462	- / 1.556	- / 2.219	- / 2.479	- / 2.402	Continuing	Continuing	
Subtotal: 2611 Naval Tactical Command Support System Ship Set Equipment Upgrades (DY005)	598 / 148.189	50 / 3.708	47 / 4.326	20 / 1.462	- / -	20 / 1.462	20 / 1.556	28 / 2.219	31 / 2.479	35 / 2.402	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 148.189	- / 3.708	- / 4.326	- / 1.462	- / -	- / 1.462	- / 1.556	- / 2.219	- / 2.479	- / 2.402	Continuing	Continuing	
Support (All Modification Items)													
2.1) Production Support	- / 13.294	- / 0.224	- / 0.260	- / 0.088	- / -	- / 0.088	- / 0.093	- / 0.133	- / 0.150	- / 0.144	Continuing	Continuing	
2.2) DSA	- / 5.006	- / 0.158	- / 0.227	- / 0.053	- / -	- / 0.053	- / 0.055	- / 0.083	- / 0.128	- / 0.103	Continuing	Continuing	
Subtotal: Support	- / 18.300	- / 0.382	- / 0.487	- / 0.141	- / -	- / 0.141	- / 0.148	- / 0.216	- / 0.278	- / 0.247	Continuing	Continuing	
Installation													
Modification Item 1 of 1: 2611 Naval Tactical Command Support System Ship Set Equipment Upgrades (DY005)	- / 124.786	- / 3.652	- / 4.266	- / 0.823	- / -	- / 0.823	- / 0.823	- / 1.153	- / 1.562	- / 1.442	Continuing	Continuing	
Subtotal: Installation	- / 124.786	- / 3.652	- / 4.266	- / 0.823	- / -	- / 0.823	- / 0.823	- / 1.153	- / 1.562	- / 1.442	Continuing	Continuing	
Total													
Total Cost (Procurement + Support + Installation)	291.275	7.742	9.079	2.426	-	2.426	2.527	3.588	4.319	4.091	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2611 / Naval Tact Cmd Supt Sys (NTCSS)	Modification Number / Title: 1 / 2611 Naval Tactical Command Support System Ship Set Equipment Upgrades (DY005)

Modification Item 1 of 1: 2611 Naval Tactical Command Support System Ship Set Equipment Upgrades (DY005)

Manufacturer Information

Manufacturer Name: Spawar Systems Center Atlantic	Manufacturer Location: Charleston, SC
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 2

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Nov 2013	Nov 2014	Nov 2015				
Delivery Dates	Jan 2014	Jan 2015	Jan 2016				

Installation Information

Method of Implementation: [none specified]:: Installation Name: Equipment

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	598 / 124.786	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	598 / 124.786
FY 2014	- / -	50 / 3.652	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 3.652
FY 2015	- / -	- / -	47 / 4.266	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 4.266
FY 2016	- / -	- / -	- / -	20 / 0.823	- / -	20 / 0.823	- / -	- / -	- / -	- / -	- / -	20 / 0.823
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.823	- / -	- / -	- / -	- / -	20 / 0.823
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.153	- / -	- / -	- / -	28 / 1.153
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 1.562	- / -	- / -	31 / 1.562
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 1.442	- / -	35 / 1.442
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Total	598 / 124.786	50 / 3.652	47 / 4.266	20 / 0.823	- / -	20 / 0.823	20 / 0.823	28 / 1.153	31 / 1.562	35 / 1.442	Continuing	Continuing

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	598	-	12	14	14	10	15	16	16	-	3	6	9	2	12	4	2	2	7	7	7	7	7	7	8	8	8	8	9	9	9	829
Out	598	-	12	14	14	10	15	16	16	-	3	6	9	2	12	4	2	2	7	7	7	7	7	7	8	8	8	8	9	9	9	829

Footnotes:

(1) Varying unit costs is due to the composition of ships from year to year, i.e., one year may have larger ships like CVNs while another year may consist mainly of SSNs. Additionally, different ships require different peripherals, which lead to per unit cost differences in that category.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2611 / Naval Tact Cmd Supt Sys (NTCSS)	Modification Number / Title: 2 / 2611 Naval Tactical Command Support System MALs/Shore Equipment Upgrades (DY006)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	292.527	6.560	9.113	11.990	-	11.990	10.713	7.323	5.838	13.867	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	292.527	6.560	9.113	11.990	-	11.990	10.713	7.323	5.838	13.867	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	292.527	6.560	9.113	11.990	-	11.990	10.713	7.323	5.838	13.867	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Application subsystems include/financial/inventory management, organizational and surface maintenance management, and administrative information systems support. NTCSS procurements will also provide ship/shore capabilities for displaying and storing Computer-aided Acquisition and Logistics Support (CALS) initiative information (digitized engineering drawings, automated technical manuals, etc.).

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2611 / Naval Tact Cmd Supt Sys (NTCSS)				Modification Number / Title: 2 / 2611 Naval Tactical Command Support System MALs/Shore Equipment Upgrades (DY006)					
Models of Systems Affected: Provides modern centrally-managed mission support Automatic Data Processing (ADP) system upgrades, a				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 2611 Naval Tactical Command Support System MALs/Shore Equipment Upgrades (DY006)													
B Kits													
Recurring													
1.1.1) Equipment - NonOrganic ⁽²⁾	1,219 / 185.066	42 / 2.726	47 / 5.349	69 / 6.557	- / -	69 / 6.557	61 / 5.791	37 / 4.053	31 / 3.232	76 / 7.579	Continuing	Continuing	
Subtotal: Recurring	- / 185.066	- / 2.726	- / 5.349	- / 6.557	- / -	- / 6.557	- / 5.791	- / 4.053	- / 3.232	- / 7.579	Continuing	Continuing	
Subtotal: 2611 Naval Tactical Command Support System MALs/Shore Equipment Upgrades (DY006)	1,219 / 185.066	42 / 2.726	47 / 5.349	69 / 6.557	- / -	69 / 6.557	61 / 5.791	37 / 4.053	31 / 3.232	76 / 7.579	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 185.066	- / 2.726	- / 5.349	- / 6.557	- / -	- / 6.557	- / 5.791	- / 4.053	- / 3.232	- / 7.579	Continuing	Continuing	
Support (All Modification Items)													
2.1) Production Support	- / 12.717	- / 0.165	- / 0.258	- / 0.393	- / -	- / 0.393	- / 0.347	- / 0.243	- / 0.194	- / 0.452	Continuing	Continuing	
2.2) DSA	- / 2.575	- / 0.263	- / 0.090	- / 0.128	- / -	- / 0.128	- / 0.098	- / 0.053	- / 0.045	- / 0.158	Continuing	Continuing	
Subtotal: Support	- / 15.292	- / 0.428	- / 0.348	- / 0.521	- / -	- / 0.521	- / 0.445	- / 0.296	- / 0.239	- / 0.610	Continuing	Continuing	
Installation													
Modification Item 1 of 1: 2611 Naval Tactical Command Support System MALs/Shore Equipment Upgrades (DY006)	- / 92.169	- / 3.406	- / 3.416	- / 4.912	- / -	- / 4.912	- / 4.477	- / 2.974	- / 2.367	- / 5.678	Continuing	Continuing	
Subtotal: Installation	- / 92.169	- / 3.406	- / 3.416	- / 4.912	- / -	- / 4.912	- / 4.477	- / 2.974	- / 2.367	- / 5.678	Continuing	Continuing	
Total													
Total Cost (Procurement + Support + Installation)	292.527	6.560	9.113	11.990	-	11.990	10.713	7.323	5.838	13.867	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2611 / Naval Tact Cmd Supt Sys (NTCSS)	Modification Number / Title: 2 / 2611 Naval Tactical Command Support System MALs/Shore Equipment Upgrades (DY006)

Modification Item 1 of 1: 2611 Naval Tactical Command Support System MALs/Shore Equipment Upgrades (DY006)

Manufacturer Information

Manufacturer Name: Spawar Systems Center Atlantic	Manufacturer Location: Charleston, SC
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 2

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Nov 2013	Nov 2014	Nov 2015				
Delivery Dates	Jan 2014	Jan 2015	Jan 2016				

Installation Information

Method of Implementation: [none specified]:: Installation Name: Equipment

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1,219 / 92.169	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,219 / 92.169
FY 2014	- / -	42 / 3.406	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 3.406
FY 2015	- / -	- / -	47 / 3.416	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 3.416
FY 2016	- / -	- / -	- / -	69 / 4.912	- / -	69 / 4.912	- / -	- / -	- / -	- / -	- / -	69 / 4.912
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	61 / 4.477	- / -	- / -	- / -	- / -	61 / 4.477
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 2.974	- / -	- / -	- / -	37 / 2.974
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 2.367	- / -	- / -	31 / 2.367
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	76 / 5.678	- / -	76 / 5.678
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Total	1,219 / 92.169	42 / 3.406	47 / 3.416	69 / 4.912	- / -	69 / 4.912	61 / 4.477	37 / 2.974	31 / 2.367	76 / 5.678	Continuing	Continuing

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1,219	-	14	14	14	-	15	16	16	-	23	23	23	-	21	20	20	-	12	12	13	-	10	10	11	-	25	25	26	-	1,582
Out	1,219	-	14	14	14	-	15	16	16	-	23	23	23	-	21	20	20	-	12	12	13	-	10	10	11	-	25	25	26	-	1,582

Footnotes:

(2) Varying unit costs is due to the composition of ships from year to year, i.e., one year may have larger ships like CVNs while another year may consist mainly of SSNs. Additionally, different ships require different peripherals, which lead to per unit cost differences in that category. The average unit cost (AUC) in FY14 reflects procurement of servers for each squadron. The FY15 AUC reflects a change in deployment strategy, wherein the procurements are done for one consolidated site called the NTCSS Virtual Environment (VE), which includes several squadrons.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment							P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)					
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:					Other Related Program Elements: 0205604N				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	3.836	16.768	23.069	-	23.069	43.284	46.087	44.502	45.433	-	222.979
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	3.836	16.768	23.069	-	23.069	43.284	46.087	44.502	45.433	-	222.979
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	3.836	16.768	23.069	-	23.069	43.284	46.087	44.502	45.433	-	222.979
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.189	0.756	1.225	-	1.225	1.301	0.455	0.485	-	-	4.411
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Advanced Tactical Data Link Systems (ATDLS) funds the Time Division Multiple Access family of Link 16 terminals including the Multifunctional Information Distribution System - Low Volume Terminal, Joint Tactical Information Distribution System (JTIDS) and the Tactical Digital Information Link - Joint (TADIL-J) message standard databases resident in the Command & Control Processor (C2P)/ Common Data Link Management System (CDLMS). ATDLS funds the Command and Control Processor (C2P) Technology Refresh, NGC2P upgrades to meet LHD combat system upgrades, Link-22 capability upgrades, Link 16 terminal upgrades and replacements, Link 16 antenna replacements, Link Monitoring Management Tool, and other ATDLS integration.

Command and Control Processor (C2P) Technology Refresh Full Systems Ship/Shore (DR003): C2P computer processing boards are obsolete and have antiquated software code with no industrial base support. Technology refresh is required for C2P software modernization. Additionally, C2P configuration is not shock qualified. Full Systems upgrades are required to achieve 901D shock certification.

Command and Control Processor (C2P) Amphibious Assault Ship (LHD) Upgrades (DR003): Changes to LHD combat systems starting in FY13 will require NGC2P/CDLMS upgrades in order to maintain critical data link functions including simultaneous processing of Link 11, Link 16 and JRE.

Link 16 Upgrade Kits Ship/Shore (DR012): Link 16 terminals will be upgraded on U.S. Navy surface platforms. Existing Link 16 Joint Tactical Information Distribution System terminals and Multifunctional Information Distribution System on Ship (MOS) terminals will be implemented with Frequency Remapping (FR) and Crypto Modernization (CM) mandated upgrades. The product improvement will bring the Link 16 terminals in compliance with the Department of Defense / Department of Transportation Memorandum of Agreement (31DEC02) and updated National Security Agency approved cryptographic algorithms.

Link 16 MOS Modernization (MOS MOD) Replacement Ship/Shore (DR012): CVN's and critical DDG Ballistic Missile Defense (BMD) mission platforms will have Link 16 terminals replaced with modernized MOS terminals in addition to meeting Frequency Remapping and Crypto Modernization mandated upgrades.

Link 16 Antenna Replacement (DR012): Existing obsolete dedicated Link 16 shipboard antenna will be replaced.

Link Monitoring Management Tool (LMMT) Ship/Shore (DR014): LMMT is required to enable Joint Interface Control Officers (JICOs) to effectively monitor and manage the performance of tactical data link networks. Funds procurement and installation of LMMT hardware on ships and shore sites. The Multifunctional Information Distribution System (MIDS) will also be procured and installed for the CVNs.

Advanced Tactical Data Link Systems (ATDLS) Training (DR666): Develop initial end-to-end training curriculum and simulators.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment		P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items:	Other Related Program Elements: 0205604N

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy	Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment	P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)

ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:			Other Related Program Elements: 0205604N		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Adv Tact Data Link Sys (ATDLS)	P-5, P-5a		- / 0.000	- / 3.836	- / 16.768	- / 17.787	- / -	- / 17.787
1 / Adv Tact Data Link Sys (ATDLS) ()	P-3a		- / 0.000	- / -	- / -	- / 5.282	- / -	- / 5.282
Total Gross/Weapon System Cost			- / 0.000	- / 3.836	- / 16.768	- / 23.069	- / -	- / 23.069
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / Adv Tact Data Link Sys (ATDLS)	P-5, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / Adv Tact Data Link Sys (ATDLS) ()	P-3a		- / 13.602	- / 14.652	- / 4.410	- / -	- / -	- / 37.946
Total Gross/Weapon System Cost			- / 43.284	- / 46.087	- / 44.502	- / 45.433	- / -	- / 222.979

*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 add due to rounding.

Justification:

FY16 budget procures Advanced Tactical Data Link Systems command and control equipment for both shipboard and shore units including the first production unit of MOS Mod Terminals including the associated MIDS Terminal, Link 16 Network Program Antennas, Command and Control Processor hardware and software, and Link Monitoring Management Tool hardware and software.

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Exhibit P-5, Cost Analysis: PB 2016 Navy								Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)				Item Number / Title [DODIC]: 1 / Adv Tact Data Link Sys (ATDLS)										
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)		0.000	3.836	16.768	17.787	-	17.787	-	-	-	-	-	-					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) (\$ in Millions)		0.000	3.836	16.768	17.787	-	17.787	-	-	-	-	-	-					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		0.000	3.836	16.768	17.787	-	17.787	-	-	-	-	-	-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-	-	-	-	-	-	-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway - Adv Tact Data Link Sys (ATDLS) - DR003 C2P Cost																		
Recurring Cost																		
1.1.1) C2P - Technology Refresh Full System Shore ^(†)	-	-	0.000	-	-	-	975.000	5	4.875	994.000	2	1.988	-	-	-	994.000	2	1.988
1.1.2) C2P - LHD Upgrade ^(†)	-	-	0.000	-	-	-	975.000	1	0.975	994.000	1	0.994	-	-	-	994.000	1	0.994
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	5.850	-	-	2.982	-	-	-	-	-	2.982
Subtotal: Flyaway - Adv Tact Data Link Sys (ATDLS) - DR003 C2P Cost	-	-	0.000	-	-	-	-	-	5.850	-	-	2.982	-	-	-	-	-	2.982
Flyaway - Adv Tact Data Link Sys (ATDLS) - DR012 LINK 16 Cost																		
Recurring Cost																		
2.1.1) Link 16 - JTIDS CM/FR Ship ^(†)	-	-	0.000	-	-	-	251.000	3	0.753	-	-	-	-	-	-	-	-	-
2.1.2) Link 16 - JTIDS CM/FR Shore ^(†)	-	-	0.000	-	-	-	213.000	5	1.065	-	-	-	-	-	-	-	-	-
2.1.6) Link 16 - MOS MOD Shore ^(†)	-	-	0.000	-	-	-	-	-	-	805.000	2	1.610	-	-	-	805.000	2	1.610
2.1.7) Link 16 - Upgrade Antenna ^(†)	-	-	0.000	185.000	3	0.555	185.000	2	0.370	189.000	1	0.189	-	-	-	189.000	1	0.189
Subtotal: Recurring Cost	-	-	0.000	-	-	0.555	-	-	2.188	-	-	1.799	-	-	-	-	-	1.799

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)						Item Number / Title [DODIC]: 1 / Adv Tact Data Link Sys (ATDLS)						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Flyaway - Adv Tact Data Link Sys (ATDLS) - DR012 LINK 16 Cost	-	-	0.000	-	-	0.555	-	-	2.188	-	-	1.799	-	-	-	-	-	1.799
Flyaway - Adv Tact Data Link Sys (ATDLS) - DR014 LINK MONITORING MANAGEMENT TOOL (LMMT) Cost																		
Recurring Cost																		
3.1.1) LMMT - Ship (CVN) ^{(†) (1)}	-	-	0.000	800.000	2	1.600	-	-	-	600.000	1	0.600	-	-	-	600.000	1	0.600
3.1.3) LMMT - Shore ^(†)	-	-	0.000	-	-	-	-	-	-	151.000	20	3.020	-	-	-	151.000	20	3.020
Subtotal: Recurring Cost	-	-	0.000	-	-	1.600	-	-	-	-	-	3.620	-	-	-	-	-	3.620
Subtotal: Flyaway - Adv Tact Data Link Sys (ATDLS) - DR014 LINK MONITORING MANAGEMENT TOOL (LMMT) Cost	-	-	0.000	-	-	1.600	-	-	-	-	-	3.620	-	-	-	-	-	3.620
Flyaway - INSTALLATION - DR776 NON-FMP Cost																		
Recurring Cost																		
4.1.1) C2P - Technology Refresh Full System Shore Install	-	-	0.000	-	-	-	-	-	-	-	-	2.550	-	-	-	-	-	2.550
4.1.2) C2P - Technology Refresh Full System Shore Design	-	-	0.000	-	-	-	-	-	0.325	-	-	0.100	-	-	-	-	-	0.100
4.1.4) Link 16 - JTIDS CM/FR Shore Design	-	-	0.000	-	-	-	-	-	0.175	-	-	0.066	-	-	-	-	-	0.066
4.1.8) Link 16 - MOS MOD Shore Design	-	-	0.000	-	-	-	-	-	-	-	-	0.060	-	-	-	-	-	0.060
4.1.9) LMMT - Shore Install	-	-	0.000	-	-	-	-	-	-	-	-	3.249	-	-	-	-	-	3.249
4.1.10) LMMT - Shore Design	-	-	0.000	-	-	-	-	-	0.420	-	-	0.058	-	-	-	-	-	0.058
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	0.920	-	-	6.083	-	-	-	-	-	6.083
Subtotal: Flyaway - INSTALLATION - DR776 NON-FMP Cost	-	-	0.000	-	-	-	-	-	0.920	-	-	6.083	-	-	-	-	-	6.083
Flyaway - INSTALLATION - DR777 FMP Cost																		
Recurring Cost																		
5.1.1) C2P - NGC2P FCK Install	-	-	0.000	-	-	0.750	-	-	0.255	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)						Item Number / Title [DODIC]: 1 / Adv Tact Data Link Sys (ATDLS)						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
5.1.2) C2P - NGC2P FCK Design	-	-	0.000	-	-	0.061	-	-	0.100	-	-	-	-	-	-	-	-	-
5.1.3) C2P - LHD Upgrade Install	-	-	0.000	-	-	-	-	-	-	-	-	0.330	-	-	-	-	-	0.330
5.1.4) C2P - LHD Upgrade Design	-	-	0.000	-	-	-	-	-	0.478	-	-	0.098	-	-	-	-	-	0.098
5.1.8) Link 16 - JTIDS CM/FR Ship Design	-	-	0.000	-	-	-	-	-	0.175	-	-	0.025	-	-	-	-	-	0.025
5.1.13) Link 16 - Upgrade Antenna Install	-	-	0.000	-	-	0.191	-	-	0.390	-	-	0.199	-	-	-	-	-	0.199
5.1.14) Link 16 - Upgrade Antenna Design	-	-	0.000	-	-	0.185	-	-	0.185	-	-	-	-	-	-	-	-	-
5.1.16) LMMT - Ship (CVN) Design	-	-	0.000	-	-	0.320	-	-	-	-	-	0.090	-	-	-	-	-	0.090
5.1.18) LMMT - Ship (L Class) Design	-	-	0.000	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
Subtotal: Recurring Cost	-	-	0.000	-	-	1.507	-	-	1.583	-	-	0.842	-	-	-	-	-	0.842
Subtotal: Flyaway - INSTALLATION - DR777 FMP Cost	-	-	0.000	-	-	1.507	-	-	1.583	-	-	0.842	-	-	-	-	-	0.842
Support - DR555 PRODUCTION SUPPORT Cost																		
6.1) C2P - Technology Refresh Full System Shore Production Support	-	-	0.000	-	-	-	-	-	0.224	-	-	0.042	-	-	-	-	-	0.042
6.2) C2P - LHD Upgrade Production Support	-	-	0.000	-	-	-	-	-	0.061	-	-	0.035	-	-	-	-	-	0.035
6.4) Link 16 - JTIDS CM/FR Ship Production Support	-	-	0.000	-	-	-	-	-	0.100	-	-	0.052	-	-	-	-	-	0.052
6.5) Link 16 - JTIDS CM/ FR Shore Production Support	-	-	0.000	-	-	-	-	-	0.100	-	-	0.053	-	-	-	-	-	0.053
6.9) Link 16 - MOS MOD Shore Production Support	-	-	0.000	-	-	-	-	-	-	-	-	0.047	-	-	-	-	-	0.047
6.10) Link 16 - Upgrade Antenna Production Support	-	-	0.000	-	-	0.079	-	-	0.072	-	-	-	-	-	-	-	-	-
6.11) LMMT - Ship (CVN) Production Support	-	-	0.000	-	-	0.095	-	-	-	-	-	0.017	-	-	-	-	-	0.017

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7							P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)						Item Number / Title [DODIC]: 1 / Adv Tact Data Link Sys (ATDLS)					
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
	6.13) LMMT - Shore Production Support	-	-	0.000	-	-	-	-	-	-	-	-	0.090	-	-	-	-	-
Subtotal: Support - DR555 PRODUCTION SUPPORT Cost	-	-	0.000	-	-	0.174	-	-	0.557	-	-	0.336	-	-	-	-	-	0.336
Support - DR666 ATDLS Training Cost																		
7.1) ATDLS Training ⁽²⁾	-	-	0.000	-	-	-	-	-	5.670	-	-	2.125	-	-	-	-	-	2.125
Subtotal: Support - DR666 ATDLS Training Cost	-	-	0.000	-	-	-	-	-	5.670	-	-	2.125	-	-	-	-	-	2.125
Gross/Weapon System Cost	-	-	0.000	-	-	3.836	-	-	16.768	-	-	17.787	-	-	-	-	-	17.787
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
	Flyaway - Adv Tact Data Link Sys (ATDLS) - DR003 C2P Cost																	
Recurring Cost																		
1.1.1) C2P - Technology Refresh Full System Shore ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) C2P - LHD Upgrade ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - Adv Tact Data Link Sys (ATDLS) - DR003 C2P Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway - Adv Tact Data Link Sys (ATDLS) - DR012 LINK 16 Cost																		
Recurring Cost																		
2.1.1) Link 16 - JTIDS CM/FR Ship ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) Link 16 - JTIDS CM/FR Shore ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.6) Link 16 - MOS MOD Shore ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.7) Link 16 - Upgrade Antenna ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7							P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)						Item Number / Title [DODIC]: 1 / Adv Tact Data Link Sys (ATDLS)					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	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)
5.1.2) C2P - NGC2P FCK Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.3) C2P - LHD Upgrade Install	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.4) C2P - LHD Upgrade Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.8) Link 16 - JTIDS CM/FR Ship Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.13) Link 16 - Upgrade Antenna Install	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.14) Link 16 - Upgrade Antenna Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.16) LMMT - Ship (CVN) Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.18) LMMT - Ship (L Class) Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - INSTALLATION - DR777 FMP Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - DR555 PRODUCTION SUPPORT Cost																		
6.1) C2P - Technology Refresh Full System Shore Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) C2P - LHD Upgrade Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.4) Link 16 - JTIDS CM/FR Ship Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.5) Link 16 - JTIDS CM/ FR Shore Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.9) Link 16 - MOS MOD Shore Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.10) Link 16 - Upgrade Antenna Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.11) LMMT - Ship (CVN) Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.13) LMMT - Shore Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7							P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)							Item Number / Title [DODIC]: 1 / Adv Tact Data Link Sys (ATDLS)					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost			
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	
Subtotal: Support - DR555 PRODUCTION SUPPORT Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support - DR666 ATDLS Training Cost																			
7.1) ATDLS Training	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support - DR666 ATDLS Training Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Remarks:

BLI 2614 procures data link components (e.g. circuit cards, routers, antennas, shock mounts, etc.) to replace obsolete ones. There is integration and testing of these components lasting 6-9 months, which causes procurements to be installed in the following fiscal year.

(†) indicates the presence of a P-5a

Footnotes:

(1) FY16 Procurement based on 12-month lead time of MIDS, which is required for a complete end item of LMMT only on CVN. Other LMMT procurements and installs do not require long lead times.

(2) ATDLS Training (DR666): Develop initial end-to-end training curriculum and simulators for Advanced Tactical Data Links systems.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7			P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)						Item Number / Title [DODIC]: 1 / Adv Tact Data Link Sys (ATDLS)			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) C2P - Technology Refresh Full System Shore		2015	SPAWAR Pacific / San Diego	C / TBD	SPAWAR	Apr 2015	Jun 2016	5	975.000	Y		
1.1.1) C2P - Technology Refresh Full System Shore		2016	TBD / San Diego	C / TBD	SPAWAR	Jul 2016	Jul 2017	2	994.000	Y		
1.1.2) C2P - LHD Upgrade		2015	SPAWAR Pacific - FY2015 / San Diego	C / TBD	SPAWAR	Apr 2015	Sep 2015	1	975.000	Y		Jun 2014
1.1.2) C2P - LHD Upgrade		2016	SPAWAR Pacific / San Diego	C / TBD	SPAWAR	Dec 2015	Sep 2016	1	994.000	Y		Jun 2015
2.1.1) Link 16 - JTIDS CM/FR Ship		2015	Data Link Solutions / Cedar Rapids, IA	C / TBD	SPAWAR	Sep 2015	May 2016	3	251.000	Y		Mar 2015
2.1.2) Link 16 - JTIDS CM/FR Shore		2015	Data Link Solutions / Cedar Rapids, IA	C / TBD	SPAWAR	Sep 2015	Jul 2016	5	213.000	Y		Mar 2015
2.1.6) Link 16 - MOS MOD Shore		2016	Data Link Solutions / Cedar Rapids, IA	C / TBD	SPAWAR	Jan 2016	Jan 2017	2	805.000	Y		Oct 2012
2.1.7) Link 16 - Upgrade Antenna		2014	Naval Surface Warfare Center Dahlgren / Dahlgren, Va	WR	Dahlgren	May 2014	Feb 2015	3	185.000	Y		Jun 2013
2.1.7) Link 16 - Upgrade Antenna		2015	Naval Surface Warfare Center Dahlgren / Dahlgren, Va	WR	Dahlgren	May 2015	Feb 2016	2	185.000	Y		Jun 2014
2.1.7) Link 16 - Upgrade Antenna		2016	Naval Surface Warfare Center Dahlgren / Dahlgren, Va	WR	Dahlgren	May 2016	Feb 2017	1	189.000	Y		Jun 2015
3.1.1) LMMT - Ship (CVN)		2014	SPAWAR Pacific / San Diego	WR	SPAWAR	Jan 2015	Jan 2016	2	800.000	Y		Oct 2013
3.1.1) LMMT - Ship (CVN)		2016	SPAWAR Pacific / San Diego	C / TBD	SPAWAR	Apr 2016	Apr 2017	1	600.000	Y		Oct 2015
3.1.3) LMMT - Shore		2016	SPAWAR Pacific / San Diego	C / TBD	SPAWAR	Nov 2015	Apr 2016	20	151.000	Y		Jun 2015

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)						Modification Number / Title: 1 / Adv Tact Data Link Sys (ATDLS)		
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	5.282	-	5.282	13.602	14.652	4.410	-	-	37.946
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	-	-	5.282	-	5.282	13.602	14.652	4.410	-	-	37.946
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	5.282	-	5.282	13.602	14.652	4.410	-	-	37.946
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Command and Control Processor (C2P) Technology Refresh Full Systems Ship: C2P computer processing boards are obsolete and have antiquated software code with no industrial base support. Technology refresh is required for C2P software modernization. Additionally, C2P configuration is not shock qualified. Full Systems upgrades are required to achieve 901D shock certification.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)				Modification Number / Title: 1 / Adv Tact Data Link Sys (ATDLS)					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0205604N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Adv Tact Data Link Sys (ATDLS)													
B Kits													
Recurring													
1.1.1) C2P - Technology Refresh Ship - NonOrganic ⁽³⁾	- / -	- / -	- / -	5 / 4.970	- / -	5 / 4.970	10 / 10.140	8 / 8.272	- / -	- / -	- / -	23 / 23.382	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 4.970	- / -	- / 4.970	- / 10.140	- / 8.272	- / -	- / -	- / -	- / 23.382	
Subtotal: Adv Tact Data Link Sys (ATDLS)	- / -	- / -	- / -	5 / 4.970	- / -	5 / 4.970	10 / 10.140	8 / 8.272	- / -	- / -	- / -	23 / 23.382	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 4.970	- / -	- / 4.970	- / 10.140	- / 8.272	- / -	- / -	- / -	- / 23.382	
Support (All Modification Items)													
2.1) C2P - Technology Refresh Ship Production Support	- / 0.000	- / -	- / -	- / 0.104	- / -	- / 0.104	- / 0.224	- / 0.134	- / -	- / -	- / -	- / 0.462	
2.2) C2P - Technology Refresh Ship DSA	- / 0.000	- / -	- / -	- / 0.208	- / -	- / 0.208	- / 0.638	- / 0.946	- / 0.090	- / -	- / -	- / 1.882	
Subtotal: Support	- / 0.000	- / -	- / -	- / 0.312	- / -	- / 0.312	- / 0.862	- / 1.080	- / 0.090	- / -	- / -	- / 2.344	
Installation													
Modification Item 1 of 1: Adv Tact Data Link Sys (ATDLS)	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.600	- / 5.300	- / 4.320	- / -	- / -	- / 12.220	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.600	- / 5.300	- / 4.320	- / -	- / -	- / 12.220	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	5.282	-	5.282	13.602	14.652	4.410	-	-	37.946	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7										P-1 Line Item Number / Title: 2614 / Adv Tact Data Link Sys (ATDLS)										Modification Number / Title: 1 / Adv Tact Data Link Sys (ATDLS)											
Modification Item 1 of 1: Adv Tact Data Link Sys (ATDLS)																															
Manufacturer Information																															
Manufacturer Name: TBD ⁽⁴⁾													Manufacturer Location: TBD																		
Administrative Leadtime (in Months): 8													Production Leadtime (in Months): 12																		
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates										Jun 2016																					
Delivery Dates										Jun 2017																					
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: C2P - Technology Refresh Ship																															
Installation Cost		Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2014		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2015		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		5 / 2.600		- / -		- / -		- / -		- / -		5 / 2.600							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		10 / 5.300		- / -		- / -		- / -		10 / 5.300							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		8 / 4.320		- / -		- / -		8 / 4.320							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		- / -		- / -		- / -		- / -		- / -		- / -		5 / 2.600		10 / 5.300		8 / 4.320		- / -		- / -		23 / 12.220							
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	4	3	3	-	4	4	-	-	-	-	-	23
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	4	3	3	-	4	4	-	-	-	-	23
Footnotes: ⁽³⁾ C2P Technology Refresh Full System Ship procurements based on 12-month production lead time. ⁽⁴⁾ Source selection has not been determined.																															

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment	P-1 Line Item Number / Title: 2618 / Navy Command and Control System (NCCS)

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	22.772	7.201	5.219	4.054	-	4.054	3.381	4.051	3.922	4.029	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	22.772	7.201	5.219	4.054	-	4.054	3.381	4.051	3.922	4.029	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	22.772	7.201	5.219	4.054	-	4.054	3.381	4.051	3.922	4.029	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	0.096	0.082	0.060	-	0.060	0.049	0.053	0.056	-	-	0.396
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Funding includes Global Command and Control System-Maritime (GCCS-M), the Navy fielded portions of GCCS-Joint, and Joint Automated Deep Operations Coordination System (JADOCS). GCCS-M is further delineated by Afloat and Ashore.

GCCS-M is the Maritime implementation of the United States (U.S.) Global Command and Control System (GCCS). It provides Maritime Commanders at all echelons of command with a single, integrated, scalable Command, Control, Communication, Computers and Intelligence (C4I) system that fuses, correlates, filters, maintains and displays location, and attribute information on friendly, hostile and neutral land, sea and air forces. It takes this information and integrates it with available intelligence and environmental information, to support command decision making. It operates in near real-time, constantly updating unit positions and other situational awareness data. GCCS-M also records data in appropriate databases and maintains a history of changes to those records. System operators use the data to construct relevant tactical pictures using maps, charts, topography overlays, oceanographic overlays, meteorological overlays, imagery and all-source intelligence information coordinated into a Common Operational Picture (COP) that can be shared locally and with other sites. GCCS-M is not a weapon system, but receives data from, and interfaces with Navy integrated weapons systems. Navy Commanders review and evaluate the general tactical situation, plan actions and operations, direct forces, synchronize tactical movements, and integrate force maneuver with firepower. GCCS-M operates on General Service (GENSER) Secret networks in a variety of environments and supports joint, coalition and allied forces. GCCS-M is implemented Afloat and at Ashore fixed command centers. Increment 1 includes all GCCS-M software versions 4.0 and earlier. Increment 2 is GCCS-M 4.1.

[P5 / FA010 GCCS-M Afloat]: GCCS-M Afloat provides Command and Control capability to Force Level Ships (e.g., CVN Carriers, LCC Command Ships, LHA and LHD Amphibious Ships), Unit Level Ships (e.g., CG Cruisers, DDG Destroyers, FFG Frigates, MCM Mine Countermeasure Ships, LPD and LSD Amphibious Ships, LCS Littoral Combat Ships, PC Coastal Patrol Ships), Submarines (e.g., SSN/SSBN/SSGN Submarines), the Software Support Activity (SSA), and the In-Service Engineering Activity (ISEA).

[P5 / FA020 GCCS-M Ashore]: GCCS-M Ashore provides evolutionary systems and ancillary equipment upgrades to support Chief of Naval Operations, Combatant Commanders, Unified Commander, Fleet Commanders, Type Commanders, Force Anti-Submarine Warfare Commanders, Submarine Operating Authorities, and Technical Training Equipment Sites worldwide. GCCS-M Ashore provides systems that receive, process, display, maintain and/or assess unit characteristics, employment scheduling, material condition, combat readiness, war fighting capabilities, and positional information of own, allied, and hostile forces. GCCS-M Ashore provides the tools necessary for fleet and Shore based Commanders to execute plans, transmit tasking, and provide tactical information to subordinate forces.

[P5 / FA040 GCCS (Joint) Support Equipment]: Global Command and Control System- Joint (GCCS-J) is a Department of Defense (DoD) Program of Record managed by the Defense Information Systems Agency (DISA) GCCS-J Program Management Office (PMO). The GCCS-J system requirements, software release schedule, and system fielding plan are determined by the DISA GCCS-J PMO in coordination with the Joint Staff. GCCS-J supports the Joint Staff and Combatant Commanders by providing Command, Control, Communication, Computers and Intelligence (C4I) data processing capabilities, including

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment		P-1 Line Item Number / Title: 2618 / Navy Command and Control System (NCCS)
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
status of forces and support requirements for use in national security decision making, force preparation and operational planning and execution. GCCS-J provides support for Fleet Communications Center interfacing with deployed units and other fixed Fleet and Joint Command Centers.		
[P5 / FA060 JADOCS]: Provide funding for the fielding of JADOCS software on new installation hardware. JADOCS is required to provide the capability to coordinate joint targeting and mission assignment for time sensitive targets and other rapid-response missions across Functional Component Commanders, Joint and Combined Force Commanders, Geographic Combatant Commands, and Special Operations Command.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy					Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment				P-1 Line Item Number / Title: 2618 / Navy Command and Control System (NCCS)				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Navy Command and Control System (NCCS)	P-5, P-5a		- / 22.772	- / 7.201	- / 5.219	- / 4.054	- / -	- / 4.054
Total Gross/Weapon System Cost			- / 22.772	- / 7.201	- / 5.219	- / 4.054	- / -	- / 4.054
*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 add due to rounding.								

Justification:

The FY 2016 funding request was reduced by \$0.6 million to account for the availability of prior year execution balances.

The FY16 budget procures and installs GCCS-J Ashore workstations, servers, Local Area Network (LAN) hardware and software, communications equipment; and GCCS-M and JADOCS Afloat and Ashore software.

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Exhibit P-5, Cost Analysis: PB 2016 Navy											Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2618 / Navy Command and Control System (NCCS)						Item Number / Title [DODIC]: 1 / Navy Command and Control System (NCCS)						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				22.772		7.201		5.219		4.054		-		4.054				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P1) (\$ in Millions)				22.772		7.201		5.219		4.054		-		4.054				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				22.772		7.201		5.219		4.054		-		4.054				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		0.096		0.082		0.060		-		0.060				
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway - FA010 GCCS-M Afloat Cost																		
Recurring Cost																		
1.1.1) GCCS-M Increment 1 Afloat Unit Level ^(†) (1)	-	-	4.962	1.276	29	0.037	1.000	1	0.001	1.000	1	0.001	-	-	-	1.000	1	0.001
1.1.2) GCCS-M Increment 2 Afloat Unit Level ^(†) (2)	-	-	-	1.250	8	0.010	1.500	16	0.024	1.000	26	0.026	-	-	-	1.000	26	0.026
1.1.3) GCCS-M Increment 1 Afloat Force Level ^(†) (3)	-	-	-	15.000	1	0.015	-	-	-	-	-	-	-	-	-	-	-	-
1.1.4) GCCS-M Increment 2 Afloat Force Level ^(†) (4)	400.000	7	2.800	14.667	3	0.044	16.800	5	0.084	11.200	5	0.056	-	-	-	11.200	5	0.056
Subtotal: Recurring Cost	-	-	7.762	-	-	0.106	-	-	0.109	-	-	0.083	-	-	-	-	-	0.083
Subtotal: Flyaway - FA010 GCCS-M Afloat Cost	-	-	7.762	-	-	0.106	-	-	0.109	-	-	0.083	-	-	-	-	-	0.083
Flyaway - FA020 GCCS-M Ashore Cost																		
Recurring Cost																		
2.1.1) GCCS-M Increment 2 Ashore ^(†) (5)	-	-	1.353	393.500	2	0.787	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	1.353	-	-	0.787	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy											Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2618 / Navy Command and Control System (NCCS)						Item Number / Title [DODIC]: 1 / Navy Command and Control System (NCCS)						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Flyaway - FA020 GCCS-M Ashore Cost	-	-	1.353	-	-	0.787	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway - FA040 GCCS (Joint) Support Equipment Cost																		
Recurring Cost																		
3.1.1) GCCS (Joint) Support Equipment ^(†) (6)	172.091	22	3.786	174.000	4	0.696	127.167	6	0.763	187.667	3	0.563	-	-	-	187.667	3	0.563
Subtotal: Recurring Cost	-	-	3.786	-	-	0.696	-	-	0.763	-	-	0.563	-	-	-	-	-	0.563
Subtotal: Flyaway - FA040 GCCS (Joint) Support Equipment Cost	-	-	3.786	-	-	0.696	-	-	0.763	-	-	0.563	-	-	-	-	-	0.563
Flyaway - FA060 JADOCS Cost																		
Recurring Cost																		
4.1.1) JADOCS - Full ^(†)	-	-	-	12.000	4	0.048	12.167	6	0.073	12.333	3	0.037	-	-	-	12.333	3	0.037
4.1.2) JADOCS - Lite ^(†)	-	-	-	10.000	4	0.040	6.833	6	0.041	14.000	3	0.042	-	-	-	14.000	3	0.042
Subtotal: Recurring Cost	-	-	0.000	-	-	0.088	-	-	0.114	-	-	0.079	-	-	-	-	-	0.079
Subtotal: Flyaway - FA060 JADOCS Cost	-	-	0.000	-	-	0.088	-	-	0.114	-	-	0.079	-	-	-	-	-	0.079
Flyaway - FA666 Training Curriculum Cost																		
Non Recurring Cost																		
5.1.1) GCCS-M Increment 2 Ashore Training Curriculum	-	-	0.527	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	0.527	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - FA666 Training Curriculum Cost	-	-	0.527	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway - ASHORE INSTALLATIONS - FA776 Non FMP Cost																		
Recurring Cost																		
6.1.1) GCCS-M Increment 2 Ashore	-	-	0.368	-	-	0.229	-	-	-	-	-	-	-	-	-	-	-	-
6.1.2) GCCS-M Ashore Pre-Installation Design	-	-	0.140	-	-	0.144	-	-	-	-	-	-	-	-	-	-	-	-
6.1.3) GCCS (Joint) Support Equipment	-	-	2.009	-	-	0.372	-	-	0.450	-	-	0.336	-	-	-	-	-	0.336

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2618 / Navy Command and Control System (NCCS)						Item Number / Title [DODIC]: 1 / Navy Command and Control System (NCCS)						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
6.1.4) GCCS-J Pre-Installation Design	-	-	0.387	-	-	0.162	-	-	0.183	-	-	0.137	-	-	-	-	-	0.137
6.1.5) JADOCs - Full	-	-	-	-	-	0.188	-	-	0.109	-	-	0.064	-	-	-	-	-	0.064
Subtotal: Recurring Cost	-	-	2.904	-	-	1.095	-	-	0.742	-	-	0.537	-	-	-	-	-	0.537
Subtotal: Flyaway - ASHORE INSTALLATIONS - FA776 Non FMP Cost	-	-	2.904	-	-	1.095	-	-	0.742	-	-	0.537	-	-	-	-	-	0.537
Flyaway - AFLOAT INSTALLATIONS - FA777 FMP Cost																		
Recurring Cost																		
7.1.1) GCCS-M Increment 1 Afloat Unit Level	-	-	4.659	-	-	2.568	-	-	0.094	-	-	0.062	-	-	-	-	-	0.062
7.1.2) GCCS-M Increment 2 Afloat Unit Level	-	-	-	-	-	0.374	-	-	1.481	-	-	1.479	-	-	-	-	-	1.479
7.1.3) GCCS-M Increment 1 Afloat Force Level	-	-	-	-	-	0.315	-	-	-	-	-	-	-	-	-	-	-	-
7.1.4) GCCS-M Increment 2 Afloat Force Level	-	-	1.666	-	-	0.944	-	-	1.795	-	-	1.192	-	-	-	-	-	1.192
7.1.5) JADOCs - Lite	-	-	-	-	-	0.143	-	-	0.083	-	-	0.048	-	-	-	-	-	0.048
Subtotal: Recurring Cost	-	-	6.325	-	-	4.344	-	-	3.453	-	-	2.781	-	-	-	-	-	2.781
Subtotal: Flyaway - AFLOAT INSTALLATIONS - FA777 FMP Cost	-	-	6.325	-	-	4.344	-	-	3.453	-	-	2.781	-	-	-	-	-	2.781
Support - FA555 Production Support Cost																		
8.1) GCCS (Joint) Production Engineering Support	-	-	0.091	-	-	0.035	-	-	0.035	-	-	0.010	-	-	-	-	-	0.010
8.2) GCCS-M Increment 2 Ashore Production Support	-	-	0.024	-	-	0.048	-	-	-	-	-	-	-	-	-	-	-	-
8.3) JADOCs Production Support	-	-	-	-	-	0.002	-	-	0.003	-	-	0.001	-	-	-	-	-	0.001
Subtotal: Support - FA555 Production Support Cost	-	-	0.115	-	-	0.085	-	-	0.038	-	-	0.011	-	-	-	-	-	0.011
Gross/Weapon System Cost	-	-	22.772	-	-	7.201	-	-	5.219	-	-	4.054	-	-	-	-	-	4.054

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Exhibit P-5, Cost Analysis: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2618 / Navy Command and Control System (NCCS)	Item Number / Title [DODIC]: 1 / Navy Command and Control System (NCCS)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Remarks: [Flyaway] FA010 GCCS-M Afloat - GCCS-M Afloat install quantities also include refresh units. - Units installed are software-only installations (the software was developed with Research, Development, Test & Evaluation, Navy). Other Procurement, Navy (OPN) is the appropriate fund source when the GCCS-M installation is an incidental cost to the Common Computing Environment (CCE)/CANES hardware installation. - Unit Level encompasses both Unit Level, Group Level, and submarine procurement / installations. - Unit costs are based on the average cost of all the platforms or sites installed within a given fiscal year. - Unit cost variances are due to the diverse types of upgrade requirements per platform or site. - First quarter afloat installations are budgeted for with prior year funds.		
(t) indicates the presence of a P-5a		
Footnotes: (1) GCCS-M Increment 1 Afloat Unit Level provide software / hardware for DDG, CG, LCS, LPD, LSD, PC, MCM, SSN, SSBN, SSGN and FFG classes. Increment 1 can deliver a software / hardware solution or a software-only solution. (2) GCCS-M Increment 2 Afloat Unit Level is the final version of GCCS-M for DDG, CG, LCS, LPD, LSD, PC, MCM, SSN, SSBN, SSGN and FFG classes. Increment 2 delivers a software-only solution. (3) GCCS-M Increment 1 Afloat Force Level provide software / hardware for CVN, LHA, LHD, and LCC classes. Increment 1 can deliver a software / hardware solution or a software-only solution. (4) GCCS-M Increment 2 Afloat Force Level is the final version of GCCS-M for CVN, LHA, LHD, and LCC classes. Increment 2 delivers a software-only solution. (5) GCCS-M Increment 2 Ashore: Unit costs are based on the average cost of all the platforms or sites installed within a given fiscal year. Unit cost variances are due to the diverse types of upgrade requirements per platform or site. (6) GCCS-J Quantities represent the number of complete unit upgrades to existing systems. The cost to upgrade each unit varies based on the number of servers, computers, and monitors and the equipment configurations. The different unit sizes and configurations result in varying unit costs.		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2618 / Navy Command and Control System (NCCS)				Item Number / Title [DODIC]: 1 / Navy Command and Control System (NCCS)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) GCCS-M Increment 1 Afloat Unit Level		2014	SSC Atlantic/Pacific ⁽⁷⁾ / SPAWAR	WR	SPAWAR	Nov 2013	Jan 2014	29	1.276	Y		
1.1.1) GCCS-M Increment 1 Afloat Unit Level		2015	SSC Atlantic/Pacific ⁽⁷⁾ / SPAWAR	WR	SPAWAR	Nov 2014	Jan 2015	1	1.000	Y		
1.1.1) GCCS-M Increment 1 Afloat Unit Level		2016	SSC Atlantic/Pacific ⁽⁷⁾ / SPAWAR	WR	SPAWAR	Nov 2015	Jan 2016	1	1.000	Y		
1.1.2) GCCS-M Increment 2 Afloat Unit Level		2014	SSC Atlantic/Pacific ⁽⁸⁾ / SPAWAR	WR	SPAWAR	Nov 2013	Jan 2014	8	1.250	Y		
1.1.2) GCCS-M Increment 2 Afloat Unit Level		2015	SSC Atlantic/Pacific ⁽⁸⁾ / SPAWAR	WR	SPAWAR	Nov 2014	Jan 2015	16	1.500	Y		
1.1.2) GCCS-M Increment 2 Afloat Unit Level		2016	SSC Atlantic/Pacific ⁽⁸⁾ / SPAWAR	WR	SPAWAR	Nov 2015	Jan 2016	26	1.000	Y		
1.1.3) GCCS-M Increment 1 Afloat Force Level		2014	SSC Atlantic/Pacific ⁽⁹⁾ / SPAWAR	WR	SPAWAR	Nov 2013	Jan 2014	1	15.000	Y		
1.1.4) GCCS-M Increment 2 Afloat Force Level		2014	SSC Atlantic/Pacific ⁽¹⁰⁾ / SPAWAR	WR	SPAWAR	Nov 2013	Jan 2014	3	14.667	Y		
1.1.4) GCCS-M Increment 2 Afloat Force Level		2015	SSC Atlantic/Pacific ⁽¹⁰⁾ / SPAWAR	WR	SPAWAR	Nov 2014	Jan 2015	5	16.800	Y		
1.1.4) GCCS-M Increment 2 Afloat Force Level		2016	SSC Atlantic/Pacific ⁽¹⁰⁾ / SPAWAR	WR	SPAWAR	Nov 2015	Jan 2016	5	11.200	Y		
2.1.1) GCCS-M Increment 2 Ashore		2014	SSC Atlantic/Pacific / SPAWAR	WR	SPAWAR	Dec 2013	Mar 2014	2	393.500	Y		
3.1.1) GCCS (Joint) Support Equipment		2014	SSC Atlantic/Pacific / SPAWAR	WR	SPAWAR	Nov 2013	Jan 2014	4	174.000	Y		
3.1.1) GCCS (Joint) Support Equipment		2015	SSC Atlantic/Pacific / SPAWAR	WR	SPAWAR	Nov 2014	Jan 2015	6	127.167	Y		
3.1.1) GCCS (Joint) Support Equipment		2016	SSC Atlantic/Pacific / SPAWAR	WR	SPAWAR	Nov 2015	Jan 2016	3	187.667	Y		
4.1.1) JADOCS - Full		2014	SSC Pacific / San Diego, CA	WR	SPAWAR	Mar 2014	May 2014	4	12.000	Y		
4.1.1) JADOCS - Full		2015	SSC Pacific / San Diego, CA	WR	SPAWAR	Nov 2014	Jan 2015	6	12.167	Y		
4.1.1) JADOCS - Full		2016	SSC Pacific / San Diego, CA	WR	SPAWAR	Nov 2015	Jan 2016	3	12.333	Y		
4.1.2) JADOCS - Lite		2014	SSC Pacific / San Diego, CA	WR	SPAWAR	Mar 2014	May 2014	4	10.000	Y		
4.1.2) JADOCS - Lite		2015	SSC Pacific / San Diego, CA	WR	SPAWAR	Nov 2014	Jan 2015	6	6.833	Y		
4.1.2) JADOCS - Lite		2016	SSC Pacific / San Diego, CA	WR	SPAWAR	Nov 2015	Jan 2016	3	14.000	Y		
Footnotes:												

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2618 / Navy Command and Control System (NCCS)	Item Number / Title [DODIC]: 1 / Navy Command and Control System (NCCS)
(7) Space and Naval Warfare Systems Command Systems Center (SPAWARSSYSCEN), Pacific and Atlantic are procuring, integrating and installation agents. There are multiple hardware and software contracts awarded under each cost code. (8) Space and Naval Warfare Systems Command Systems Center (SPAWARSSYSCEN), Pacific and Atlantic are procuring, integrating and installation agents. There are multiple software contracts awarded under each cost code. (9) Space and Naval Warfare Systems Command Systems Center (SPAWARSSYSCEN), Pacific and Atlantic are procuring, integrating and installation agents. There are multiple hardware and software contracts awarded under each cost code. (10) Space and Naval Warfare Systems Command Systems Center (SPAWARSSYSCEN), Pacific and Atlantic are procuring, integrating and installation agents. There are multiple software contracts awarded under each cost code.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment							P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement					
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	506.739	54.900	40.482	21.014	-	21.014	65.506	58.187	47.780	48.145	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	506.739	54.900	40.482	21.014	-	21.014	65.506	58.187	47.780	48.145	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	506.739	54.900	40.482	21.014	-	21.014	65.506	58.187	47.780	48.145	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	1.892	0.653	0.498	-	0.498	0.889	0.875	0.011	-	-	4.818
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
Provides systems, subsystems, and engineering change kits for minehunting, navigation, and tactical display operations by the surface Mine Countermeasure (MCM) force. Engineering change kits improve reliability and maintainability and correct deficiencies to allow equipment to perform in accordance with operational requirements.												
[P5 / HME SHIP SYSTEMS]: A tech refresh is necessary to procure material and install the Integrated Ship Control System (ISCS) upgrades on MCM Class Ships forward deployed. Alteration SCD 78356 will upgrade five computer workstations, replace network switches, and replace the Windows NT operating system with Windows 7. Legacy sustainment will not provide the necessary support because the workstations and network hardware are beyond their intended service lives. In addition, the operating system is not supported by the provider. Parts obsolescence results in procurement delays of urgent warfighting upgrades for deployed ships. Specifically, there is an increased risk of loss of core propulsion, electric and auxiliary plant functionality. ISCS legacy sustainment inhibits MCM capability to get underway to conduct missions in a region of the world that is of vital strategic importance to the United States. Therefore, a tech refresh is necessary to support the MCM mine hunting and minesweeping capability whereas legacy sustainment is not feasible and would result in delays and obsolescence. This alteration has been identified as a priority because this capability is only found on the MCM Class Ships. The MCM Readiness Task Force Report identified implementation of this alteration as the #3 priority and the MCM Operational Advisory Group Brief identified implementation of this alteration as the #7 priority MCM alteration.												
[P5 / LV081 - BOW THRUSTER IMPROVEMENT]: This program replaces the hydraulic actuator with an electromagnetic actuator designed to eliminate inherent problems with MCM class ships Bow Thruster.												
[P5 / LV082 - AFT DECK EQUIPMENT UPGRADE]: This program will install an inverter electric motor on the magnetic cable reel, acoustic cable reel, minesweeping winch and self contained hydraulic power unit on the stern crane.												
[P5 / LV084 - 400HZ]: The 400Hz Motor Generator (MG) sets currently onboard the MCMs are mechanically unreliable. Funding will replace the existing 400 Hz MG sets with Static Frequency Converters (SFCs) to eliminate inherent problems with existing systems.												
[P5 / LV073 - MCM/MHC INTEGRATED SHIP CONTROL SYSTEM]: This program funds software integration and hardware upgrades to the MCM-1 class ships' Integrated Ship Control System (ISCS). Ship Change upgrades computer workstations, replaces network switches, and replaces the operating system.												
[P5 - 2 / LV075 - MCM COMBAT SYSTEMS]: The MCM Combat System Upgrades program consists of a series of incremental upgrades to the current combat system via Engineering Change Kits. The upgrades improve reliability and maintainability and correct deficiencies to allow the equipment to perform in accordance with operational requirements. The current planned upgrades include:												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment		P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items:	Other Related Program Elements:
- Supportability and Obsolescence Upgrade Engineering Changes - upgrade and modernization of the MCM-1 Class Ship combat systems to reduce current and emergent obsolescence and supportability issues with the SQQ-32, SSN-2, Battle Space Profiler, AAG, SLQ-48 Power Distribution Unit (PDU), and the AN/SLQ-48 Mine Neutralization System. - Mine Neutralization System (MNS) is installing SEAFOX neutralizers on 4 MCM Avenger Class Ships by replacing the existing AN/SLQ-48 Mine Neutralization System. - Klein Sonar - Funds obsolescence upgrades to the Klein sonar. These efforts maintain the ability to rotate systems off of MCM-1's for required overhaul and system upgrades to increase system Operational Availability (Ao). - MEDAL Expeditionary Systems - Installation of MEDAL onboard MCM Ships and to ashore MEDAL users. MEDAL EA mobile servers (expeditionary) installation on afloat units including MCM Class and LCS.- SSQ-94 System Trainer - Consists of an improved training systems to MCM Ships' integrating the SqQ-32 HFWB and SSN-2 PINS Upgrades and resolve obsolescence issues. [P5 - 2 / LV078 - AN/SQQ-30(V)4 HFWB]: AN/SQQ-32(V)4 High Frequency Wide Band is a technology upgrade to the SQQ-32 Towed Body which will incorporate HFWB technology into the detection sonar to address performance deficiencies against new mine threats in the littorals. This upgrade will be installed on MCM-1 Class ships with the SQQ-32(V)3 and will have new transducer modules, fiber optic cable and modified topside processing and display software. [P5 - 2 / PNNCM - MINE COUNTERMEASURES MAP SYSTEM]: Additional high-speed, high resolution sidescan sonar systems that provide deeper tows, longer range, and higher resolution than existing systems are required to meet Fleet requirements supporting Mine Warfare (MIW) operations. The procurement will facilitate collection of high resolution imagery at MIW resolutions and acoustic frequencies. The imagery data is required to generate products that directly support mine warfare. This environmental data is critical in the detection of small mine-like targets as well as hazards-to-navigation (e.g. wrecks) and characterizing the seafloor over large areas (geoprovincing). This data is used in change-detection programs to compare with any new data collected from the Fleet that will aid in the assessment and determination of mine-threats and significantly reduced clearance time. [P5 - 3 / LV080 - UNMANNED SURFACE SWEEP SYSTEM (US3)]: Unmanned Surface Sweep System (US3) (LV080): This line item procures the training units to support the US3 operational units procured for the Littoral Combat Ship Mission Modules. US3 consists of a power supply, control unit, winch, acoustic generator, magnetic tow cable, deploy and retrieve subsystem. Unmanned Surface Vehicle Flight 1 (USV) combines the US3 with a USV which creates the Unmanned Influence Sweep System (UISS) onboard the Littoral Combat Ship (LCS) class of ships. US3 will provide long endurance and wide area magnetic and acoustic mine sweep capability. [P5 - 4 / LV083 - AIMS]: This program provides both Continental United States (CONUS) and Forward-Area signature measurement capabilities for mine susceptibility assessments, calibrates the ship's degaussing systems, effectiveness of acoustic quiet bills, database archiving and data analysis of Class-wide signatures. [P5 - 4 / LV085 - MAGNETIC SILENCING FACILITY UPGRADES]: This program is for hardware, auxiliary systems and support in association with the upgrade of the current aging Continental United States (CONUS) and Outside Continental United States (OCONUS) Magnetic Silencing Facilities (MSF) so the calibration of the new Open-Loop Magnetic Systems or Advanced Degaussing System (ADS) ships and submarines can be accomplished for worldwide operation. The upgrade will also ensure that the ships/submarines will be able to meet OPNAV 8950.2G signature requirements and will be less susceptible to Electro-Magnetic threat systems.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment				P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement				
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / HME SHIP SYSTEMS	P-5		- / 44.192	- / 7.040	- / 8.072	- / 4.283	- / -	- / 4.283
2 / MINE COUNTERMEASURES	P-5, P-5a, P-21		- / 233.244	- / 29.779	- / 17.197	- / 7.864	- / -	- / 7.864
4 / OTHER SYSTEMS [OTHER]	P-5		- / 229.303	- / 18.081	- / 15.213	- / 8.867	- / -	- / 8.867
Total Gross/Weapon System Cost			- / 506.739	- / 54.900	- / 40.482	- / 21.014	- / -	- / 21.014
*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 add due to rounding.								

Justification:

FY16 funds the baseline program in order to outfit the current MCM Fleet with Navy's latest technology to combat Mine Warfare Countermeasures around the world. This includes the installation of the final High Frequency Wide Band (HFWB) mine detection systems and upgrades of SLQ-48 Mine Neutralization systems in FY16. Additionally, to meet the increased operational demand, FY16 funds will go towards the installation of the MEDAL EA Mine Warfare Planning upgrades and initiating the SQQ-94 Trainer installation.

The FY16 funding request was reduced by \$15.4 million to account for the availability of prior year execution balances.

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement						Item Number / Title [DODIC]: 1 / HME SHIP SYSTEMS						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				44.192		7.040		8.072		4.283		-		4.283				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				44.192		7.040		8.072		4.283		-		4.283				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				44.192		7.040		8.072		4.283		-		4.283				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - LV081 - BOW THRUSTER IMPROVEMENT Cost																		
Recurring Cost																		
1.1.1) BOW THRUSTER IMPROVEMENT	-	-	3.958	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	3.958	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - LV081 - BOW THRUSTER IMPROVEMENT Cost	-	-	3.958	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardware - LV082 - AFT DECK EQUIPMENT UPGRADE Cost																		
Recurring Cost																		
2.1.1) AFT DECK EQUIPMENT UPGRADE ⁽¹⁾	-	-	29.570	-	-	3.500	-	-	4.483	-	-	2.410	-	-	-	-	2.410	
Subtotal: Recurring Cost	-	-	29.570	-	-	3.500	-	-	4.483	-	-	2.410	-	-	-	-	2.410	
Subtotal: Hardware - LV082 - AFT DECK EQUIPMENT UPGRADE Cost	-	-	29.570	-	-	3.500	-	-	4.483	-	-	2.410	-	-	-	-	2.410	
Hardware - LV084 - 400HZ Cost																		
Non Recurring Cost																		
3.1.1) 400HZ	-	-	3.994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Non Recurring Cost	-	-	3.994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - LV084 - 400HZ Cost	-	-	3.994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement							Item Number / Title [DODIC]: 1 / HME SHIP SYSTEMS					
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
Software - LV073 - MCM/MHC INTEGRATED SHIP CONTROL SYSTEM Cost																		
Recurring Cost																		
4.1.1) SOFTWARE INTEGRATION	-	-	6.670	-	-	3.540	-	-	3.589	-	-	1.873	-	-	-	-	-	1.873
Subtotal: Recurring Cost	-	-	6.670	-	-	3.540	-	-	3.589	-	-	1.873	-	-	-	-	-	1.873
Subtotal: Software - LV073 - MCM/MHC INTEGRATED SHIP CONTROL SYSTEM Cost	-	-	6.670	-	-	3.540	-	-	3.589	-	-	1.873	-	-	-	-	-	1.873
Gross/Weapon System Cost	-	-	44.192	-	-	7.040	-	-	8.072	-	-	4.283	-	-	-	-	-	4.283
Footnotes:																		
(1) *Note: Aft Deck equipment upgrade is a high priority of the MCM Task Force and MCM Operational Advisory Group.																		

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Exhibit P-5, Cost Analysis: PB 2016 Navy											Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement						Item Number / Title [DODIC]: 2 / MINE COUNTERMEASURES						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				233.244		29.779		17.197		7.864		-		7.864				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				233.244		29.779		17.197		7.864		-		7.864				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				233.244		29.779		17.197		7.864		-		7.864				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - LV075 - MCM COMBAT SYSTEMS Cost																		
Recurring Cost																		
1.1.2) SSQ-94 Trainer	-	-	0.000	-	-	-	-	-	-	-	-	0.993	-	-	-	-	-	0.993
1.1.3) MCM Combat Systems (MEDAL)	-	-	136.639	-	-	20.660	-	-	1.855	-	-	2.313	-	-	-	-	-	2.313
1.1.4) Mine Neutralization System (MNS)	-	-	0.000	-	-	-	-	-	4.223	-	-	-	-	-	-	-	-	-
1.1.6) Obsolescence Upgrades (SLQ-48)	-	-	0.000	-	-	-	-	-	-	-	-	2.500	-	-	-	-	-	2.500
Subtotal: Recurring Cost	-	-	136.639	-	-	20.660	-	-	6.078	-	-	5.806	-	-	-	-	-	5.806
Subtotal: Hardware - LV075 - MCM COMBAT SYSTEMS Cost	-	-	136.639	-	-	20.660	-	-	6.078	-	-	5.806	-	-	-	-	-	5.806
Hardware - LV900 - MCM COMBAT SYSTEMS Consulting Services Cost																		
Recurring Cost																		
2.1.1) MCM Combat Systems - Consulting Services	-	-	1.732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	1.732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - LV900 - MCM COMBAT SYSTEMS Consulting Services Cost	-	-	1.732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - LV078 - AN/SQQ-30(V)4 HFWB Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Navy											Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement						Item Number / Title [DODIC]: 2 / MINE COUNTERMEASURES						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
3.1.1) AN/SQQ-32(V)4 HFWB ^(†)	5,911.750	12	70.941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) AN/SQQ-32(V)4 HFWB Integration ^(†)	3,277.750	4	13.111	3,039.667	3	9.119	3,300.000	3	9.900	-	-	-	-	-	-	-	-	-
3.1.3) H/W and S/W ECP	-	-	0.000	-	-	-	-	-	0.284	-	-	1.106	-	-	-	-	-	1.106
3.1.4) EDM Refurbishment	-	-	3.848	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	87.900	-	-	9.119	-	-	10.184	-	-	1.106	-	-	-	-	-	1.106
Subtotal: Hardware - LV078 - AN/SQQ-30(V)4 HFWB Cost	-	-	87.900	-	-	9.119	-	-	10.184	-	-	1.106	-	-	-	-	-	1.106
Hardware - PNNCM - MINE COUNTERMEASURES MAP SYSTEM Cost																		
Recurring Cost																		
5.1.1) PNNCM - MINE COUNTERMEASURES MAP SYSTEM (BSO 60) ^(†)	588.000	3	1.764	-	-	-	467.500	2	0.935	476.000	2	0.952	-	-	-	476.000	2	0.952
Subtotal: Recurring Cost	-	-	1.764	-	-	-	-	-	0.935	-	-	0.952	-	-	-	-	-	0.952
Subtotal: Hardware - PNNCM - MINE COUNTERMEASURES MAP SYSTEM Cost	-	-	1.764	-	-	-	-	-	0.935	-	-	0.952	-	-	-	-	-	0.952
Support - SUPPORT Cost																		
6.1) PRODUCTION ENGINEERING - MCM Combat Systems	-	-	2.461	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) PRODUCTION ENGINEERING - HFWB	-	-	2.748	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - SUPPORT Cost	-	-	5.209	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	233.244	-	-	29.779	-	-	17.197	-	-	7.864	-	-	-	-	-	7.864
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement					Item Number / Title [DODIC]: 2 / MINE COUNTERMEASURES			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1.1) AN/SQQ-32(V)4 HFWB ^(†)		2013	BAE NASHUA NH / NASHUA NH	C / FFP	NAVSEA	Oct 2013	Dec 2014	3	5,737.000	Y		
3.1.2) AN/SQQ-32(V)4 HFWB Integration ^(†)		2014	Government FMT / NSWC, PC	MIPR	NSWC, PC	Nov 2013	May 2014	3	3,039.667	Y		
3.1.2) AN/SQQ-32(V)4 HFWB Integration ^(†)		2015	Government FMT / NSWC, PC	MIPR	NSWC, PC	Nov 2014	May 2015	3	3,300.000	Y		
5.1.1) PNNCM - MINE COUNTERMEASURES MAP SYSTEM (BSO 60) ^(†)		2015	Multiple Sources / Various	C / FP	NAVOCEANO, SSC	Mar 2015	Sep 2015	2	467.500	Y		
5.1.1) PNNCM - MINE COUNTERMEASURES MAP SYSTEM (BSO 60) ^(†)		2016	Multiple Sources / Various	C / FP	NAVOCEANO, SSC	May 2016	Nov 2016	2	476.000	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015												
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7											P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement											Item Number / Title [DODIC]: 2 / MINE COUNTERMEASURES													
Cost Elements (Units in Each)							Fiscal Year 2014														Fiscal Year 2015														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014														Calendar Year 2015														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L				
3.1.1) AN/SQQ-32(V)4 HFWB																																			
Prior Years Deliveries: 9																																			
	1	2013	NAVY	3	-	3	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3.1.2) AN/SQQ-32(V)4 HFWB Integration																																			
Prior Years Deliveries: 4																																			
	2	2014	NAVY	3	-	3		A	-	-	-	-	-	-	-	1	-	1	-	1													-		
	2	2015	NAVY	3	-	3															A	-	-	-	-	-	-	-	1	-	1	-	1	-	
5.1.1) PNNCM - MINE COUNTERMEASURES MAP SYSTEM (BSO 60)																																			
Prior Years Deliveries: 3																																			
	3	2015	NAVY	2	-	2																						A	-	-	-	-	-	1	1
	3	2016	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	B A L				

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7										P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement										Item Number / Title [DODIC]: 2 / MINE COUNTERMEASURES													
Cost Elements (Units in Each)							Fiscal Year 2016										Fiscal Year 2017																
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016										Calendar Year 2017																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L		
3.1.1) AN/SQQ-32(V)4 HFWB																																	
Prior Years Deliveries: 9																																	
	1	2013	NAVY	3	3	-																										-	
3.1.2) AN/SQQ-32(V)4 HFWB Integration																																	
Prior Years Deliveries: 4																																	
	2	2014	NAVY	3	3	-																										-	
	2	2015	NAVY	3	3	-																										-	
5.1.1) PNNCM - MINE COUNTERMEASURES MAP SYSTEM (BSO 60)																																	
Prior Years Deliveries: 3																																	
	3	2015	NAVY	2	1	1	1																										-
	3	2016	NAVY	2	-	2								A	-	-	-	-	-	-	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	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement				Item Number / Title [DODIC]: 2 / MINE COUNTERMEASURES			

MFR Ref #		Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	BAE NASHUA NH - NASHUA NH	2	4	8	-	-	21	21	-	-	14	14
2	Government FMT - NSWC, PC	-	-	-	-	-	6	6	-	-	6	6
3	Multiple Sources - Various	-	-	-	-	-	-	-	-	-	6	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 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement						Item Number / Title [DODIC]: 4 / OTHER SYSTEMS [OTHER]						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				229.303		18.081		15.213		8.867		-		8.867				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				229.303		18.081		15.213		8.867		-		8.867				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				229.303		18.081		15.213		8.867		-		8.867				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - LV083 - AIMS Cost																		
Non Recurring Cost																		
1.1.1) AIMS	-	-	9.574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	9.574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - LV083 - AIMS Cost	-	-	9.574	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - LV085 - MAGNETIC SILENCING FACILITY UPGRADES Cost																		
Recurring Cost																		
2.1.1) MSF PEARL HARBOR TREATMENT UPGRADE	11,244.000	1	11.244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) MSF NORFOLK TREATMENT UPGRADE	-	-	14.457	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) MSF MEASUREMENT SYSTEM UPGRADE	39,582.000	1	39.582	-	-	18.081	-	-	15.213	-	-	8.867	-	-	-	-	-	8.867
2.1.4) MAGNETIC SILENCING FACILITY UPGRADES	-	-	5.652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	70.935	-	-	18.081	-	-	15.213	-	-	8.867	-	-	-	-	-	8.867
Subtotal: Hardware - LV085 - MAGNETIC SILENCING FACILITY UPGRADES Cost	-	-	70.935	-	-	18.081	-	-	15.213	-	-	8.867	-	-	-	-	-	8.867

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7							P-1 Line Item Number / Title: 2622 / Minesweeping System Replacement							Item Number / Title [DODIC]: 4 / OTHER SYSTEMS [OTHER]					
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 add, due to rounding.																			
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total			
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	
Hardware - LVCA1 - SEA BOTTOM MAPPING Cost																			
Non Recurring Cost																			
3.1.1) SEA BOTTOM MAPPING	-	-	1.711	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Non Recurring Cost	-	-	1.711	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - LVCA1 - SEA BOTTOM MAPPING Cost	-	-	1.711	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support - Prior Years Cumulative Funding Cost																			
4.1) Production Engineering	-	-	39.030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.3) Prior Years Cumulative Funding	-	-	108.053	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Prior Years Cumulative Funding Cost	-	-	147.083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	-	-	229.303	-	-	18.081	-	-	15.213	-	-	8.867	-	-	-	-	-	8.867	

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment							P-1 Line Item Number / Title: 2624 / Shallow Water Mine CM Ship					
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	35.725	12.748	-	18.077	-	18.077	9.344	8.880	5.602	5.723	0.002	96.101
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	35.725	12.748	-	18.077	-	18.077	9.344	8.880	5.602	5.723	0.002	96.101
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	35.725	12.748	-	18.077	-	18.077	9.344	8.880	5.602	5.723	0.002	96.101
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	1.925	-	1.925	0.563	0.060	-	-	-	2.548
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program provides a combination of US Navy projects planned to counter the threat to amphibious landing forces from known and projected foreign land/sea mines, obstacles in the beach zone and surf zone approaches to amphibious assault areas. It is a system of systems (Countermines/Counter Obstacle, Intelligence/Surveillance/Reconnaissance/Targeting (ISR/T), Navigation/Virtual Marking/Integration, C4I/Data Fusion) to provide a full assault breaching capability. This program is an essential element to the Marine Corps Ship To Objective Maneuver (STOM) Concept of Operations.

[P5 / SW003: LANDING CRAFT UTILITY (LCU) NAVIGATION UPGRADE]: Provides for the modernization of the navigation system to enable safe transit through the breached lane.

[P5 / SW004: COASTAL BATTLEFIELD RECONNAISSANCE AND ANALYSIS (COBRA)]: The mission of the AN/DVS-1 Coastal Battlefield Reconnaissance and Analysis (COBRA) is to conduct unmanned aerial tactical reconnaissance in the littoral battlespace for detection and localization of minefields and obstacles in the surf zone and beach zone prior to an amphibious assault. The COBRA Airborne Payload will be carried on the MQ-8B Fire Scout Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV). This allows operators and other personnel to remain at a safe distance from the mine and obstacle belts and enemy direct and indirect fire. COBRA will be embarked in the Littoral Combat Ship (LCS) as part of the Mine Countermeasures (MCM) Mission Package (MP).

COBRA provides the Intelligence, Surveillance, Reconnaissance/Targeting (ISR/T) part of the Assault Breaching System (ABS) of systems. One system consists of two Airborne Mine Counter Measures (AMCM) Payloads and one Post Mission Analysis (PMA) Station. Under the umbrella of evolutionary acquisition, three increments of development are planned. Block I introduces a daytime, surface laid minefield and obstacle detection capability for the Beach Zone. Block II adds a surfzone and night (darkness) detection capability. Block III adds a buried mine detection capability and on-board Near-Real-Time processing of Multi Spectral Imagery data. COBRA will be a modular payload architecture of, and integrated with, the MQ-8B Fire Scout Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) and will serve as a "detect" sensor within the Littoral Combat Ship (LCS) Mine Warfare mission package as part of amphibious assault breaching.

[P5 / SW005: AMPHIBIOUS ASSAULT VEHICLE NAVIGATION UPGRADE]: Provides for the modernization of the Landing Craft Units' (LCUs) navigation system to enable precise transit through the breached lane.

[P5 / SW061: LANDING CRAFT AIR CUSHION (LCAC) AUTOPILOT UPGRADE]: Provides an integrated improvement to the LCAC (Service Life Extension Program (SLEP) craft only) navigation system for craft control that allows precise navigation and hovering within the breached lane. (Upgrade software and backfit.)

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment		P-1 Line Item Number / Title: 2624 / Shallow Water Mine CM Ship
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items:	Other Related Program Elements:

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment					P-1 Line Item Number / Title: 2624 / Shallow Water Mine CM Ship			
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Shallow Water Mine CM Ship	P-5, P-5a, P-21		- / 35.725	- / 12.748	- / -	- / 18.077	- / -	- / 18.077
Total Gross/Weapon System Cost			- / 35.725	- / 12.748	- / -	- / 18.077	- / -	- / 18.077
*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 add due to rounding.								

Justification:

FY16 funding supports the baseline program which will procure two Coastal Battlefield Reconnaissance Analysis (COBRA) systems to be integrated on the Vertical Takeoff Unmanned Aerial Vehicle (VTUAV). These systems provide the fleet with the required training assets to certify the pilots and crew to operate and maintain these systems' before being deployed on the Littoral Combat Ship (LCS).

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7							P-1 Line Item Number / Title: 2624 / Shallow Water Mine CM Ship							Item Number / Title [DODIC]: 1 / Shallow Water Mine CM Ship							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				35.725			12.748			-			18.077			-			18.077		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P1) <i>(\$ in Millions)</i>				35.725			12.748			-			18.077			-			18.077		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				35.725			12.748			-			18.077			-			18.077		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares <i>(\$ in Millions)</i>				-			-			-			1.925			-			1.925		
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																					
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - SW003: LANDING CRAFT UTILITY (LCU) NAVIGATION UPGRADE Cost																					
Recurring Cost																					
1.1.1) LCU NAVIGATION UPGRADES	-	-	1.479	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	1.479	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Hardware - SW003: LANDING CRAFT UTILITY (LCU) NAVIGATION UPGRADE Cost	-	-	1.479	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Hardware - SW004: COASTAL BATTLEFIELD RECONNAISSANCE AND ANALYSIS (COBRA) Cost																					
Recurring Cost																					
2.1.1) SW0041 COBRA BLOCK 1 ^(†)	-	-	3.267	12,559K	1	12.559	-	-	-	8,400K	2	16.800	-	-	-	8,400K	2	16.800			
2.1.2) SW00411 COBRA BLOCK 1 SPARES, TRAINING	-	-	2.034	-	-	-	-	-	-	-	-	0.124	-	-	-	-	-	0.124			
2.1.3) SW00411 COBRA BLOCK 1 MOD UPGRADES	-	-	19.456	-	-	-	-	-	-	-	-	1.153	-	-	-	-	-	1.153			
Subtotal: Recurring Cost	-	-	24.757	-	-	12.559	-	-	-	-	-	18.077	-	-	-	-	-	18.077			
Subtotal: Hardware - SW004: COASTAL BATTLEFIELD RECONNAISSANCE AND ANALYSIS (COBRA) Cost	-	-	24.757	-	-	12.559	-	-	-	-	-	18.077	-	-	-	-	-	18.077			

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Exhibit P-5, Cost Analysis: PB 2016 Navy														Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7							P-1 Line Item Number / Title: 2624 / Shallow Water Mine CM Ship							Item Number / Title [DODIC]: 1 / Shallow Water Mine CM Ship				
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - SW005: AMPHIBIOUS ASSAULT VEHICLE NAVIGATION UPGRADE Cost																		
Recurring Cost																		
3.1.1) AMPHIBIOUS ASSAULT VEHICLE NAVIGATION UPGRADE	-	-	6.170	-	-	0.189	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	6.170	-	-	0.189	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - SW005: AMPHIBIOUS ASSAULT VEHICLE NAVIGATION UPGRADE Cost</i>	-	-	6.170	-	-	0.189	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - SW061: LANDING CRAFT AIR CUSHION (LCAC) AUTOPILOT UPGRADE Cost																		
Recurring Cost																		
4.1.1) LCAC AUTOPILOT UPGRADES	-	-	2.286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	2.286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - SW061: LANDING CRAFT AIR CUSHION (LCAC) AUTOPILOT UPGRADE Cost</i>	-	-	2.286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - SW830: PRODUCTION ENGINEERING Cost																		
5.1) PRODUCTION ENGINEERING	-	-	1.033	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - SW830: PRODUCTION ENGINEERING Cost</i>	-	-	1.033	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	35.725	-	-	12.748	-	-	-	-	-	18.077	-	-	-	-	-	18.077
Remarks: [Hardware] Acquisition strategy change for Block I and II - ONR sole source. (t) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7			P-1 Line Item Number / Title: 2624 / Shallow Water Mine CM Ship					Item Number / Title [DODIC]: 1 / Shallow Water Mine CM Ship				
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
2.1.1) SW0041 COBRA BLOCK 1 ^(†)		2014 (1)	ARETE / TUCSON, AZ	C / FFP	NSWC PC	Oct 2014	Apr 2016	1	12,559K	Y		Mar 2013
2.1.1) SW0041 COBRA BLOCK 1 ^(†)		2016	ARETE / TUCSON, AZ	C / FFP	NSWC PC	Mar 2016	Sep 2017	2	8,400K	Y		

^(†) indicates the presence of a P-21

Footnotes:

⁽¹⁾ FY14 procurement requires funds requested via Prior Approval ATR.

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7										P-1 Line Item Number / Title: 2624 / Shallow Water Mine CM Ship													Item Number / Title [DODIC]: 1 / Shallow Water Mine CM Ship											
Cost Elements (Units in Each)								Fiscal Year 2015													Fiscal Year 2016													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			
2.1.1) SW0041 COBRA BLOCK 1																																		
	1	2014	NAVY	1	-	1	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1					-		
	1	2016	NAVY	2	-	2																				A -	-	-	-	-	-	-	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	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Navy																			Date: February 2015																
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7							P-1 Line Item Number / Title: 2624 / Shallow Water Mine CM Ship														Item Number / Title [DODIC]: 1 / Shallow Water Mine CM Ship														
Cost Elements (Units in Each)							Fiscal Year 2017														Fiscal Year 2018														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018														B A L
							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					
2.1.1) SW0041 COBRA BLOCK 1																																			
	1	2014	NAVY	1	1	-																									-				
	1	2016	NAVY	2	-	2	-	-	-	-	-	-	-	-	-	-	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	B A L				

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7					P-1 Line Item Number / Title: 2624 / Shallow Water Mine CM Ship				Item Number / Title [DODIC]: 1 / Shallow Water Mine CM Ship			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial			Total After Oct 1	Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT		ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	ARETE - TUCSON, AZ	2	6	12	-	-	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-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment							P-1 Line Item Number / Title: 2657 / NAVSTAR GPS Receivers (Space)					
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	174.135	11.765	15.232	12.359	-	12.359	15.445	18.721	21.025	21.466	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	174.135	11.765	15.232	12.359	-	12.359	15.445	18.721	21.025	21.466	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	174.135	11.765	15.232	12.359	-	12.359	15.445	18.721	21.025	21.466	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	0.161	0.263	-	0.263	0.175	0.104	0.182	0.154	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:
NAVSTAR Global Positioning System (NAVSTAR GPS) provides assured and protected navigation solutions to war fighters through supported, affordable, and integrated systems, and is the primary source of positioning, navigation and timing information for the DoD.

[P5 / (1R009) Navigation Sensor System Interface (NAVSSI) FMP]: NAVSSI procurement and installation is required to provide GPS and other positioning, navigation and timing sensor data to ship-board command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR), combat, and weapons systems. NAVSSI performs the full functions of collection, integration, calculation, and distribution of positioning, navigation and timing data. Precision positioning, navigation, and timing data is required to allow a common and correlated ship-to-ship tactical and operational picture. NAVSSI FMP are large three-rack systems procured for first time installation on LHD platforms.

[P5 / (1R011) Navigation Sensor System Interface (NAVSSI) Retrofit]: NAVSSI procurement and installation is required to provide GPS and other positioning, navigation and timing sensor data to ship-board command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR), combat, and weapons systems. NAVSSI performs the full functions of collection, integration, calculation, and distribution of positioning, navigation and timing data. Precision positioning, navigation, and timing data is required to allow a common and correlated ship-to-ship tactical and operational picture. NAVSSI Retrofit are two-rack systems procured for upgrades on LPD and DDG platforms.

[P5 / (1R018) Defense Advance GPS Receiver (DAGR)]: DAGR was a GPS handheld receiver that replaced the obsolete Precision Lightweight GPS Receiver (PLGR). DAGR was a Selected Availability/Anti-Spoofing Module (SAASM)-compliant handheld GPS receiver. The GPS Joint Program Office was the procuring office for the purchase of DAGRs for U.S. forces.

[P5 / (1R019) Global Positioning System (GPS) - based Positioning, Navigation & Timing Service (GPNTS)]: GPNTS will be a single program of record satisfying U.S. Navy surface and subsurface platforms as well as potential U.S. Coast Guard and Foreign Military customers. GPNTS will meet current and emerging Positioning, Navigation and Timing (PNT) requirements of the fleet by providing modernized pervasive, robust, secure, integrated, and interoperable net centric capabilities to surface and subsurface platforms. GPNTS will be designed to accommodate back fit of current legacy PNT systems and forward fit for new platforms. The GPNTS system will be a replacement of the GPS Versa Module Euro card Receiver Card , the AN/WRN-6(V), and the Navigation Sensor System Interface (NAVSSI). The GPNTS system will provide an end to end PNT solution. The system will include the SAASM receiver card as well as an anti-jam GPS antenna. Future capabilities will migrate toward a Common Computing Environment such as Consolidated Afloat Networks Enterprise Services (CANES).

[P3A / (1R0013) Navigation Warfare (NAVWAR) Installation]: NAVWAR ensures that U. S. military forces maintain access to the GPS in an electronically challenging battle space, delivers the capability to deny adversaries access to and use of GPS during military operations, and serves to preserve the peaceful use of GPS. Navy GPS Enhanced User Equipment (UE) Operational Requirements Document directs that

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment		P-1 Line Item Number / Title: 2657 / NAVSTAR GPS Receivers (Space)
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items:	Other Related Program Elements:
future UE will incorporate an increased anti-jam capability. NAVWAR counters the threat by increasing resistance to intentional or unintentional interference. Sea NAVWAR Strategy comprises of 2 program increments, the first increment (near term) is to install GPS anti-jam antennas system (GAS-1) on surface platforms. The second increment (long term) is to install Advanced Digital Antenna Production (ADAP) antennas on surface platforms. The ADAP antenna improves upon GAS-1 performance by providing simultaneous dual frequency nulling, and built in test ability. The Capabilities Production Document for NAVWAR Increment 2 dated December 2008 was approved to support ADAP antenna development. Procurement and installation of anti-jam GPS antennas and modernized user equipment is required to ensure the continuation of GPS signals from space in a hostile jamming environment. The Sea NAVWAR program will equip selected ships with anti-jam GPS antennas to ensure the continued availability of GPS to support surface combat operations and provide reliable GPS and other positioning, navigation and timing data to ship-board C4ISR, Combat, and Weapons Systems.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment					P-1 Line Item Number / Title: 2657 / NAVSTAR GPS Receivers (Space)			
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / NAVSTAR GPS Receivers (Space)	P-5, P-5a		- / 139.537	- / 6.466	- / 5.520	- / -	- / -	- / -
1 / (1R0013) Navigation Warfare (NAVWAR) Installation (Upgrade)	P-3a		- / 34.598	- / 5.299	- / 9.712	- / 12.359	- / -	- / 12.359
Total Gross/Weapon System Cost			- / 174.135	- / 11.765	- / 15.232	- / 12.359	- / -	- / 12.359
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / NAVSTAR GPS Receivers (Space)	P-5, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / (1R0013) Navigation Warfare (NAVWAR) Installation (Upgrade)	P-3a		- / 7.968	- / 6.552	- / 5.279	- / 4.529	- / -	- / 86.296
Total Gross/Weapon System Cost			- / 15.445	- / 18.721	- / 21.025	- / 21.466	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 add due to rounding.								
Justification: The FY 2016 funding request was reduced by \$1.8 million to account for the availability of prior year execution balances. Navigation Warfare (NAVWAR) - Sea NAVWAR will continue procurement and fielding of ADAP and ADAP FOAL systems in FY16.								

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Exhibit P-5, Cost Analysis: PB 2016 Navy								Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2657 / NAVSTAR GPS Receivers (Space)					Item Number / Title [DODIC]: 1 / NAVSTAR GPS Receivers (Space)									
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)		139.537	6.466	5.520	-	-	-	-	-	-	-	-	-					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) (\$ in Millions)		139.537	6.466	5.520	-	-	-	-	-	-	-	-	-					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		139.537	6.466	5.520	-	-	-	-	-	-	-	-	-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-	-	-	-	-	-	-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway - (1R009) Navigation Sensor System Interface (NAVSSI) FMP Cost																		
Recurring Cost																		
1.1.1) Navigation Sensor System Interface (NAVSSI) FMP ^(†)	344.548	135	46.514	1,760.000	1	1.760	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	46.514	-	-	1.760	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - (1R009) Navigation Sensor System Interface (NAVSSI) FMP Cost	-	-	46.514	-	-	1.760	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway - (1R011) Navigation Sensor System Interface (NAVSSI) Retrofit Cost																		
Recurring Cost																		
2.1.1) Navigation Sensor System Interface (NAVSSI) Retrofit ^(†)	156.424	92	14.391	800.500	2	1.601	880.000	2	1.760	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	14.391	-	-	1.601	-	-	1.760	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - (1R011) Navigation Sensor System Interface (NAVSSI) Retrofit Cost	-	-	14.391	-	-	1.601	-	-	1.760	-	-	-	-	-	-	-	-	-
Flyaway - (1R018) Defense Advance GPS Receiver (DAGR) Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2657 / NAVSTAR GPS Receivers (Space)						Item Number / Title [DODIC]: 1 / NAVSTAR GPS Receivers (Space)						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
3.1.1) Defense Advance GPS Receiver (DAGR) ^(†)	3.255	875	2.848	3.444	72	0.248	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	2.848	-	-	0.248	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - (1R018) Defense Advance GPS Receiver (DAGR) Cost	-	-	2.848	-	-	0.248	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway - (1R777) FMP Install - NAVSTAR GPS Ship Cost																		
Recurring Cost																		
5.1.1) NAVSSI FMP ⁽¹⁾	-	-	42.173	-	-	-	-	-	1.230	-	-	-	-	-	-	-	-	-
5.1.2) NAVSSI Retrofit ⁽²⁾	-	-	13.514	-	-	2.117	-	-	2.185	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	55.687	-	-	2.117	-	-	3.415	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - (1R777) FMP Install - NAVSTAR GPS Ship Cost	-	-	55.687	-	-	2.117	-	-	3.415	-	-	-	-	-	-	-	-	-
Support - (1R555) Production Support Cost																		
6.1) NAVSSI FMP Production Support	-	-	8.190	-	-	0.106	-	-	-	-	-	-	-	-	-	-	-	-
6.2) NAVSSI Retrofit Production Support	-	-	4.146	-	-	0.096	-	-	0.106	-	-	-	-	-	-	-	-	-
6.3) DAGR Production Support	-	-	0.150	-	-	0.012	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - (1R555) Production Support Cost	-	-	12.486	-	-	0.214	-	-	0.106	-	-	-	-	-	-	-	-	-
Support - (1R777) FMP DSA - NAVSTAR GPS Ship Cost																		
7.1) NAVSSI FMP	-	-	4.430	-	-	0.144	-	-	0.048	-	-	-	-	-	-	-	-	-
7.2) NAVSSI Retrofit	-	-	3.181	-	-	0.382	-	-	0.191	-	-	-	-	-	-	-	-	-
Subtotal: Support - (1R777) FMP DSA - NAVSTAR GPS Ship Cost	-	-	7.611	-	-	0.526	-	-	0.239	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	139.537	-	-	6.466	-	-	5.520	-	-	-	-	-	-	-	-	-
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway - (1R009) Navigation Sensor System Interface (NAVSSI) FMP Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2657 / NAVSTAR GPS Receivers (Space)						Item Number / Title [DODIC]: 1 / NAVSTAR GPS Receivers (Space)						
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:							
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	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)
Recurring Cost																		
1.1.1) Navigation Sensor System Interface (NAVSSI) FMP ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - (1R009) Navigation Sensor System Interface (NAVSSI) FMP Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway - (1R011) Navigation Sensor System Interface (NAVSSI) Retrofit Cost																		
Recurring Cost																		
2.1.1) Navigation Sensor System Interface (NAVSSI) Retrofit ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - (1R011) Navigation Sensor System Interface (NAVSSI) Retrofit Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway - (1R018) Defense Advance GPS Receiver (DAGR) Cost																		
Recurring Cost																		
3.1.1) Defense Advance GPS Receiver (DAGR) ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - (1R018) Defense Advance GPS Receiver (DAGR) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway - (1R777) FMP Install - NAVSTAR GPS Ship Cost																		
Recurring Cost																		
5.1.1) NAVSSI FMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.2) NAVSSI Retrofit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - (1R777) FMP Install - NAVSTAR GPS Ship Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - (1R555) Production Support Cost																		
6.1) NAVSSI FMP Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2657 / NAVSTAR GPS Receivers (Space)							Item Number / Title [DODIC]: 1 / NAVSTAR GPS Receivers (Space)					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
6.2) NAVSSI Retrofit Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3) DAGR Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - (1R555) Production Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - (1R777) FMP DSA - NAVSTAR GPS Ship Cost																		
7.1) NAVSSI FMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.2) NAVSSI Retrofit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - (1R777) FMP DSA - NAVSTAR GPS Ship Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

Footnotes:

- (1) 1R777 NAVSSI FMP FY15 installation costs are due to first in flight procurement and integration for LHD-2. Unique configuration and additional capability required to support LHD capstone combat system upgrade. NAVSSI procurement has an additional 4 month integration requirement after delivery.
- (2) 1R777 NAVSSI Retrofit installation costs vary; dependent on ship class and install location.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7			P-1 Line Item Number / Title: 2657 / NAVSTAR GPS Receivers (Space)					Item Number / Title [DODIC]: 1 / NAVSTAR GPS Receivers (Space)				
Cost Elements	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) Navigation Sensor System Interface (NAVSSI) FMP		2014	SESCO/MICRO / SAN DIEGO	C / FFP	SPAWAR	Jan 2014	Jul 2014	1	1,760.000	Y		Jul 2013
2.1.1) Navigation Sensor System Interface (NAVSSI) Retrofit		2014	SESCO/MICRO / SAN DIEGO	C / FFP	SPAWAR	Jan 2014	Jul 2014	2	800.500	Y		Jul 2013
2.1.1) Navigation Sensor System Interface (NAVSSI) Retrofit		2015	SESCO/MICRO / SAN DIEGO	C / FFP	SPAWAR	Jan 2015	Jul 2015	2	880.000	Y		Jul 2013
3.1.1) Defense Advance GPS Receiver (DAGR)		2014	Rockwell Collins / Cedar Rapids, IA	C / FFP	GPS Directorate	Jan 2014	Jun 2014	72	3.444	Y		Jan 2006

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2657 / NAVSTAR GPS Receivers (Space)	Modification Number / Title: 1 / (1R0013) Navigation Warfare (NAVWAR) Installation	

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	34.598	5.299	9.712	12.359	-	12.359	7.968	6.552	5.279	4.529	-	86.296
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	34.598	5.299	9.712	12.359	-	12.359	7.968	6.552	5.279	4.529	-	86.296
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	34.598	5.299	9.712	12.359	-	12.359	7.968	6.552	5.279	4.529	-	86.296
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Procurement and installation of anti-jam GPS user equipment and prevention equipment is required to ensure the continued utility of GPS signals from space in a hostile jamming environment. The NAVWAR program will equip selected ships with anti-jam GPS antennas to ensure the continued availability of GPS to support surface combat operations and provide reliable GPS and other navigation sensor data to ship-board C4ISR, Combat, and Weapons Systems.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7				P-1 Line Item Number / Title: 2657 / NAVSTAR GPS Receivers (Space)					Modification Number / Title: 1 / (1R0013) Navigation Warfare (NAVWAR) Installation				
Models of Systems Affected: Shore Stations, Ships			Modification Type: Upgrade					Related RDT&E PEs: 0604777N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: (1R0013) Navigation Warfare (NAVWAR) Installation													
B Kits													
Recurring													
1.1.1) NAVWAR (GAS1, ADAP) - NonOrganic ⁽³⁾	339 / 19.358	24 / 3.461	21 / 6.502	28 / 9.103	- / -	28 / 9.103	14 / 4.433	15 / 4.332	10 / 3.126	10 / 2.841	- / -	461 / 53.156	
Subtotal: Recurring	- / 19.358	- / 3.461	- / 6.502	- / 9.103	- / -	- / 9.103	- / 4.433	- / 4.332	- / 3.126	- / 2.841	- / -	- / 53.156	
Subtotal: (1R0013) Navigation Warfare (NAVWAR) Installation	339 / 19.358	24 / 3.461	21 / 6.502	28 / 9.103	- / -	28 / 9.103	14 / 4.433	15 / 4.332	10 / 3.126	10 / 2.841	- / -	461 / 53.156	
Subtotal: Procurement, All Modification Items	- / 19.358	- / 3.461	- / 6.502	- / 9.103	- / -	- / 9.103	- / 4.433	- / 4.332	- / 3.126	- / 2.841	- / -	- / 53.156	
Support (All Modification Items)													
2.1) Production Support	- / 3.035	- / 0.220	- / 0.393	- / 0.546	- / -	- / 0.546	- / 0.266	- / 0.260	- / 0.187	- / 0.170	- / -	- / 5.077	
2.2) DSA - FMP	- / 2.180	- / 0.386	- / 0.688	- / 0.799	- / -	- / 0.799	- / 0.609	- / 0.504	- / 0.399	- / 0.474	- / -	- / 6.039	
Subtotal: Support	- / 5.215	- / 0.606	- / 1.081	- / 1.345	- / -	- / 1.345	- / 0.875	- / 0.764	- / 0.586	- / 0.644	- / -	- / 11.116	
Installation													
Modification Item 1 of 1: (1R0013) Navigation Warfare (NAVWAR) Installation	- / 10.025	- / 1.232	- / 2.129	- / 1.911	- / -	- / 1.911	- / 2.660	- / 1.456	- / 1.567	- / 1.044	- / -	- / 22.024	
Subtotal: Installation	- / 10.025	- / 1.232	- / 2.129	- / 1.911	- / -	- / 1.911	- / 2.660	- / 1.456	- / 1.567	- / 1.044	- / -	- / 22.024	
Total													
Total Cost (Procurement + Support + Installation)	34.598	5.299	9.712	12.359	-	12.359	7.968	6.552	5.279	4.529	-	86.296	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2657 / NAVSTAR GPS Receivers (Space)	Modification Number / Title: 1 / (1R0013) Navigation Warfare (NAVWAR) Installation

Modification Item 1 of 1: (1R0013) Navigation Warfare (NAVWAR) Installation

Manufacturer Information							
Manufacturer Name: RAYTHEON SYSTEMS LTD				Manufacturer Location: HARLOW-UNITED KINGDOM			
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 9			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Apr 2014	Feb 2015	Feb 2016				
Delivery Dates	Jan 2015	Nov 2015	Nov 2016				

Installation Information

Method of Implementation: Tiger Team:: Installation Name: NAVWAR Inc 1 - GAS1, Inc 2 - ADAP

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	325 / 10.025	14 / 1.232	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	339 / 11.257
FY 2014	- / -	- / -	24 / 2.129	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 2.129
FY 2015	- / -	- / -	- / -	21 / 1.911	- / -	21 / 1.911	- / -	- / -	- / -	- / -	- / -	21 / 1.911
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	28 / 2.660	- / -	- / -	- / -	- / -	28 / 2.660
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.456	- / -	- / -	- / -	14 / 1.456
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.567	- / -	- / -	15 / 1.567
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.044	- / -	10 / 1.044
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / -	10 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	325 / 10.025	14 / 1.232	24 / 2.129	21 / 1.911	- / -	21 / 1.911	28 / 2.660	14 / 1.456	15 / 1.567	10 / 1.044	10 / -	461 / 22.024

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	318	7	7	7	-	-	8	6	10	-	9	9	3	-	10	10	8	-	4	5	5	-	5	5	5	-	7	3	-	10	461
Out	295	23	7	7	7	-	-	8	6	10	-	9	9	3	-	10	10	8	-	4	5	5	-	5	5	5	-	7	3	10	461

Footnotes:

(3) a) SEA NAVWAR pricing for ADAP/ADAP Fiber Optic Antenna Link (FOAL) units procured from Raytheon Sys. Ltd in the United Kingdom are most affected by Economic Order Quantity (EOQ) price breaks in conjunction with the total order placed by the GPS Antennas Program Office, Robins AFB GA. LCCE is predicated on maximizing EOQ price structure in the ADAP contract. Unit price fluctuations are also caused by estimated exchange rates, inflation, and hardware configurations for ADAP & ADAP FOAL and component kits. b) INC2 ADAP FOAL Shipsets include two ADAP FOAL Antennas & two Component Kits with relation to the procurement and installation of a Shipset.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment	P-1 Line Item Number / Title: 2666 / American Forces Radio and TV Service (AFRTS)

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	19.946	6.483	4.524	4.240	-	4.240	5.321	5.087	5.041	5.174	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	19.946	6.483	4.524	4.240	-	4.240	5.321	5.087	5.041	5.174	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	19.946	6.483	4.524	4.240	-	4.240	5.321	5.087	5.041	5.174	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	0.488	0.005	-	-	-	-	-	-	-	-	0.493
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2016 funding request was reduced by \$0.5 million to account for the availability of prior year execution balances.

K0001: American Forces Radio and Television Service (AFRTS) Program - AFRTS shipboard systems provide command information to deployed Sailors and Marines and allow for the distribution of AFRTS programming in order to provide situational awareness for forward deployed commanders with real-time news and information. The systems also provide programming to Sailors and Marines at sea worldwide as a Navy Quality of Life (QOL) initiative, staying in compliance with the Chief of Naval Operations (CNO) Shipboard Habitability Program. These systems contribute significantly to the habitability of Navy ships by providing and distributing news, command information, training, and entertainment programming using the latest technology available. These systems improve morale, combat effectiveness and retention rates of deployed personnel. All AFRTS systems use Commercial-Off-the-Shelf (COTS) equipment. Fleet Support Detachments (FSDs) are the installing agents for these systems. Each component replacement is made based on ship availability, condition of system, and is coordinated through the TYCOMs.

[P5 / Site Digital Server]: The SITE digital upgrade installs a digital based video server within each SITE system. The Video Server allows for AFRTS programming and Navy Motion Picture Service Movies to be stored within the SITE system, adhering to Motion Picture Association of America Digital Rights Management standards. Media is decrypted at moment of playback. Hard drive/server allows for 30-day automated playback. Automated playlist is standard with pre-programmed, 30-day schedule, and the ship has the ability to modify as necessary. Each server installation is made based on ship availability by the FSD as the installing agents.

[P5 / Site CCTV - Digital/300]: K0001 - Site CCTV - Digital/300 - Digital/300 is the next generation of the SITE 2000/300. This system is a digitally-based replacement for the 2000/300 playback. Each system is comprised of COTS components that take three to twelve months to procure. Each component upgrade/replacement is made based on ship availability, by the FSD as the installing/replacement agents and condition of the system.

[P5 / Site CCTV - Digital/400]: SITE CCTV - Digital/400 - is the next generation of the SITE 2000/400. This system is a digitally-based replacement for the 2000/400 playback. Requires manpower of one dedicated technician and operator. Each system is comprised of COTS components that take three to twelve months to procure. Each component upgrade/replacement is made based on ship availability, by the FSD as the installing/replacement agents and condition of the system.

[P5 / Site CCTV - Digital/501]: Digital/500 - is the next generation of the SITE 2000/500. This system is a digitally-based replacement for the 2000/500 playback. Requires manpower of two dedicated technicians and three operators. Each system is comprised of COTS components that take three to twelve months to procure. Each component upgrade/replacement is made based on ship availability, by the FSD as the installing/repair agents and condition of the system.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment		P-1 Line Item Number / Title: 2666 / American Forces Radio and TV Service (AFRTS)
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
[P5 / Circuit 27TV Upgrade]: Circuit 27TV Upgrade - Upgrade to 14TV head end only that will allow the onboard SITE system to distribute Television Direct To Sailors (TV-DTS), AFRTS, and pier-side cable commercial programming. Each component upgrade/replacement is made based on ship availability by the FSD as the installing/replacement agents and the condition of the system. [P5 / Circuit 30 TV Upgrade]: K0001-Circuit 30TV: The Digital Media Transport System (Circuit 30TV) is the main video distribution network for unclassified media generated by the SBS system, Circuit 28TV surveillance and Circuit 29TV satellite systems. Each system is comprised of COTS equipment that takes six to twelve months to procure. Each system upgrade is done based on ship availability, by the Fleet Support Detachment (FSD) as the installing/replacing agent and condition of the system. [P5 / Shipboard Broadcast System (SBS)]: K0001-Shipboard Broadcast System (SBS): The SBS system replaces the SITE 300/400/501 systems with an IP video system. It collects and converts video content from several sources: Navy Motion Picture Services (NMPS) programming via encrypted DVDs (nDVD), Video Server, and shipboard surveillance cameras; and distributes the signals via Circuit 30 in Standard or High Definition. Each system is comprised of COTS equipment that takes six to twelve months to procure. Each system upgrade is done based on ship availability by the Fleet Support Detachment (FSD) as the installing/replacing agent and condition of the system. [P5 / K0830 - Production Engineering]: Supports review and approval of any production contract technical documentation or the separate development of this documentation to include: signal flow diagrams, Preventive Maintenance Services (PMS), production drawings, provisioning technical documentation (PTD), Integrated Logistic Support (ILS), Program Support Data (PSD), Allowance Parts List (APL's), and engineering in support of final design reviews. [P5 / K0INS - Non-FMP Installation]: Supports the installation of SITE, TV-DTS (TV-Direct to Sailor) system onboard Navy ships. Installations are performed by DMAA Fleet Support Detachments and are based on TYCOM nominations.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment				P-1 Line Item Number / Title: 2666 / American Forces Radio and TV Service (AFRTS)			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO
Title*	Exhibits	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)
1 / American Forces Radio and TV Service (AFRTS)	P-5, P-5a		- / 19.946	- / 6.483	- / 4.524	- / 4.240	- / -
Total Gross/Weapon System Cost			- / 19.946	- / 6.483	- / 4.524	- / 4.240	- / -
*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 add due to rounding.							

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7						P-1 Line Item Number / Title: 2666 / American Forces Radio and TV Service (AFRTS)							Item Number / Title [DODIC]: 1 / American Forces Radio and TV Service (AFRTS)					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				19.946		6.483		4.524		4.240		-		4.240				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P1) (\$ in Millions)				19.946		6.483		4.524		4.240		-		4.240				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				19.946		6.483		4.524		4.240		-		4.240				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		0.488		0.005		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 Cost																		
Recurring Cost																		
1.1.1) Site Digital Server ^(†)	97,000.00	9	0.873	97,000.00	10	0.970	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) Site CCTV - Digital/300 ^(†)	67,222.22	9	0.605	85,000.00	11	0.935	90,000.00	4	0.360	90,000.00	4	0.360	-	-	-	90,000.00	4	0.360
1.1.3) Site CCTV - Digital/400 ^(†)	24,615.38	13	0.320	90,000.00	6	0.540	90,000.00	3	0.270	95,000.00	3	0.285	-	-	-	95,000.00	3	0.285
1.1.4) Site CCTV - Digital/501 ^(†)	106,500.00	2	0.213	110,000.00	1	0.110	115,000.00	1	0.115	115,000.00	1	0.115	-	-	-	115,000.00	1	0.115
1.1.5) Circuit 27TV Upgrade ^(†)	20,000.00	7	0.140	20,000.00	8	0.160	21,000.00	5	0.105	22,000.00	4	0.088	-	-	-	22,000.00	4	0.088
Subtotal: Recurring Cost	-	-	2.151	-	-	2.715	-	-	0.850	-	-	0.848	-	-	-	-	-	0.848
Subtotal: Hardware Cost	-	-	2.151	-	-	2.715	-	-	0.850	-	-	0.848	-	-	-	-	-	0.848
Support Cost																		
2.1) K0830 - Production Engineering	-	-	14.890	-	-	3.572	-	-	3.475	-	-	3.192	-	-	-	-	-	3.192
2.2) K0INS - Non-FMP Installation	-	-	2.905	-	-	0.196	-	-	0.199	-	-	0.200	-	-	-	-	-	0.200
Subtotal: Support Cost	-	-	17.795	-	-	3.768	-	-	3.674	-	-	3.392	-	-	-	-	-	3.392
Gross/Weapon System Cost	-	-	19.946	-	-	6.483	-	-	4.524	-	-	4.240	-	-	-	-	-	4.240

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Exhibit P-5, Cost Analysis: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2666 / American Forces Radio and TV Service (AFRTS)	Item Number / Title [DODIC]: 1 / American Forces Radio and TV Service (AFRTS)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7			P-1 Line Item Number / Title: 2666 / American Forces Radio and TV Service (AFRTS)					Item Number / Title [DODIC]: 1 / American Forces Radio and TV Service (AFRTS)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) Site Digital Server		2012	Various / Various	MIPR	T-ASA	Jun 2012	Dec 2012	9	97,000.00	Y		
1.1.1) Site Digital Server		2014	Various / Various	MIPR	T-ASA	Jun 2014	Dec 2014	10	97,000.00	Y		
1.1.2) Site CCTV - Digital/300		2012	Various / Various	MIPR	T-ASA	Jun 2012	Dec 2012	2	5,000.00	Y		
1.1.2) Site CCTV - Digital/300		2013	Various / Various	MIPR	T-ASA	May 2013	Nov 2013	7	85,000.00	Y		
1.1.2) Site CCTV - Digital/300		2014	Various / Various	MIPR	T-ASA	Jun 2014	Dec 2014	11	85,000.00	Y		
1.1.2) Site CCTV - Digital/300		2015	Various / Various	MIPR	T-ASA	Mar 2015	Sep 2015	4	90,000.00	Y		
1.1.2) Site CCTV - Digital/300		2016	Various / Various	MIPR	T-ASA	Dec 2015	Jun 2016	4	90,000.00	Y		
1.1.3) Site CCTV - Digital/400		2012	Various / Various	MIPR	T-ASA	Jun 2012	Dec 2012	10	5,000.00	Y		
1.1.3) Site CCTV - Digital/400		2013	Various / Various	MIPR	T-ASA	May 2013	Nov 2013	3	90,000.00	Y		
1.1.3) Site CCTV - Digital/400		2014	Various / Various	MIPR	T-ASA	Jun 2014	Dec 2014	6	90,000.00	Y		
1.1.3) Site CCTV - Digital/400		2015	Various / Various	MIPR	T-ASA	Mar 2015	Sep 2015	3	90,000.00	Y		
1.1.3) Site CCTV - Digital/400		2016	Various / Various	MIPR	T-ASA	Dec 2015	Jun 2016	3	95,000.00	Y		
1.1.4) Site CCTV - Digital/501		2012	Various / Various	MIPR	T-ASA	Jun 2012	Dec 2012	1	110,000.00	Y		
1.1.4) Site CCTV - Digital/501		2013	Various / Various	MIPR	T-ASA	May 2013	Nov 2013	1	103,000.00	Y		
1.1.4) Site CCTV - Digital/501		2014	Various / Various	MIPR	T-ASA	Jun 2014	Dec 2014	1	110,000.00	Y		
1.1.4) Site CCTV - Digital/501		2015	Various / Various	MIPR	T-ASA	Mar 2015	Sep 2015	1	115,000.00	Y		
1.1.4) Site CCTV - Digital/501		2016	Various / Various	MIPR	T-ASA	Dec 2015	Jun 2016	1	115,000.00	Y		
1.1.5) Circuit 27TV Upgrade		2013	Various / Various	MIPR	T-ASA	May 2013	Nov 2013	7	20,000.00	Y		
1.1.5) Circuit 27TV Upgrade		2014	Various / Various	MIPR	T-ASA	Jun 2014	Dec 2014	8	20,000.00	Y		
1.1.5) Circuit 27TV Upgrade		2015	Various / Various	MIPR	T-ASA	Mar 2015	Sep 2015	5	21,000.00	Y		
1.1.5) Circuit 27TV Upgrade		2016	Various / Various	MIPR	T-ASA	Dec 2015	Jun 2016	4	22,000.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment							P-1 Line Item Number / Title: 2676 / Strategic Platform Support Equip					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	18.588	7.631	6.382	17.440	-	17.440	8.998	6.827	6.927	7.071	-	79.864
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	18.588	7.631	6.382	17.440	-	17.440	8.998	6.827	6.927	7.071	-	79.864
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	18.588	7.631	6.382	17.440	-	17.440	8.998	6.827	6.927	7.071	-	79.864
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	1.658	0.937	0.989	-	0.989	1.227	1.190	1.203	0.999	Continuing	Continuing
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Funding in this P-1 line provides Non-Propulsion Electronics equipment that will be installed aboard TRIDENT Class submarines as part of the Obsolete Equipment Replacement (OER) Program. The OBSOLETE EQUIPMENT REPLACEMENT (OER) Program is the replacement of existing hardware/software that, though functional, has become operationally obsolete, is no longer in production or supportable with spare parts, or has a high failure rate making them no longer cost effective to maintain. OER hardware/software changes are expected to provide significant cost savings via reduced maintenance costs and use Commercial-Off-The-Shelf (COTS) technology wherever possible as long as all technical requirements are met. This funding line includes performance of the required fully integrated system level testing and certification of changes to the TRIDENT Combat systems prior to installation of the changes on the ship. Integrated testing and certification provides assurance that when the changes are installed in the ship, the TRIDENT Combat system will operate as designed, allowing the ships to maintain their operational schedules and mission capabilities.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 7: Other Ship Electronic Equipment					P-1 Line Item Number / Title: 2676 / Strategic Platform Support Equip			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Strategic Platform Support Equip	P-40a, P-5a		- / 18.588	- / 7.631	- / 6.382	- / 17.440	- / -	- / 17.440
Total Gross/Weapon System Cost			- / 18.588	- / 7.631	- / 6.382	- / 17.440	- / -	- / 17.440
*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 add due to rounding.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7								P-1 Line Item Number / Title: 2676 / Strategic Platform Support Equip							Aggregated Items Title: Strategic Platform Support Equip				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) P1221 Strategic Platform Support Equip																				
1.1) Common Platform Engineering ^(†)	A		3,070K	2	6.139	805,000.00	1	0.805	909,000.00	1	0.909	923,000.00	1	0.923	-	-	-	923,000.00	1	0.923
1.2) CCS Revision Engineering Cert/Test	A		-	-	7.406	-	-	2.260	-	-	1.838	-	-	2.637	-	-	-	-	-	2.637
1.3) Monitoring Workstation Technology Refresh ^(†)	A		720,428.57	7	5.043	350,000.00	6	2.100	383,333.33	6	2.300	-	-	-	-	-	-	-	-	-
1.4) SSGN Data Processing System (DPS) Mission Critical Workstation	A		-	-	-	-	-	2.466	-	-	1.335	-	-	0.040	-	-	-	-	-	0.040
1.5) SSBN Legacy CCS Modernization ⁽¹⁾	A		-	-	-	-	-	-	-	-	-	-	-	13.840	-	-	-	-	-	13.840
Subtotal: 1) P1221 Strategic Platform Support Equip			-	-	18.588	-	-	7.631	-	-	6.382	-	-	17.440	-	-	-	-	-	17.440
Total			-	-	18.588	-	-	7.631	-	-	6.382	-	-	17.440	-	-	-	-	-	17.440

^(†) indicates the presence of a P-5a

Footnotes:

⁽¹⁾ SSBN Legacy CCS Modernization program resolves Data Processing Subsystem (DPS) obsolescence issues and conjunctively supports the upgrade of the SSBN legacy CCS to the SWFTS architecture common with the SSN/SSGN classes. Collectively, the DPS and SWFTS upgrades modify Fire Control, SONAR, VMS, and RADAR, and collaterally impact Ship Control, Monitoring Subsystem, and interfaces to ship sensors such as speed, depth, and EHF. The DPS upgrade includes replacing all UYK-43 computers, DPS workstation, TRIDENT Signal Data Converters (TSDC), and the UGC-143 with a modified Electronic Control Display Unit (ECDU). The ECDU is common equipment on VA Class and planned for the ORP. The ECDU requires HW and SW development to interface to the Strategic Weapon System (SWS) Navigation and maintain critical Ship to SWS interface requirements. No boat is impacted in FY16 but SWFTS installations begin in FY17. The ECDU and all the associated CCS architecture modifications are required to be installed conjunctively with SWFTS. Continued operation of the SSBN strategic mission will require the implementation of the ECDU upgrade along with the SWFTS upgrade. Therefore, starting in FY17, 2 hulls per year are impacted if the SSBN legacy CCS Modernization program is not executed as planned.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy	Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 7	P-1 Line Item Number / Title: 2676 / Strategic Platform Support Equip	Aggregated Items: Strategic Platform Support Equip

Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) P1221 Strategic Platform Support Equip												
1.1) Common Platform Engineering		2012	NUWC NPT / NEWPORT, RI	WR	NAVSEA	Apr 2012	Aug 2012	1	892,000.00	Y		
1.1) Common Platform Engineering		2013	NUWC NPT / NEWPORT, RI	WR	NAVSEA	Apr 2013	Aug 2013	1	916,000.00	Y		
1.1) Common Platform Engineering		2014	NUWC NPT / NEWPORT, RI	WR	NAVSEA	Apr 2014	Aug 2014	1	805,000.00	Y		
1.1) Common Platform Engineering		2015	NUWC NPT / NEWPORT, RI	WR	NAVSEA	Apr 2015	Aug 2015	1	909,000.00	Y		
1.1) Common Platform Engineering		2016	NUWC NPT / NEWPORT, RI	WR	NAVSEA	Apr 2016	Aug 2016	1	923,000.00	Y		
1.3) Monitoring Workstation Technology Refresh		2012	NSWC/CD / PHILADELPHIA, PA	WR	NAVSEA	Apr 2012	Aug 2012	3	500,000.00	Y		
1.3) Monitoring Workstation Technology Refresh		2013	NSWC/CD / PHILADELPHIA, PA	WR	NAVSEA	Apr 2013	Aug 2013	4	425,000.00	Y		
1.3) Monitoring Workstation Technology Refresh		2014	NSWC/CD / PHILADELPHIA, PA	WR	NAVSEA	Apr 2014	Aug 2014	6	350,000.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 8: Training Equipment							P-1 Line Item Number / Title: 2762 / Other Training Equipment					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	144.305	40.644	42.810	41.314	-	41.314	32.133	35.427	32.716	37.662	14.647	421.658
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	144.305	40.644	42.810	41.314	-	41.314	32.133	35.427	32.716	37.662	14.647	421.658
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	144.305	40.644	42.810	41.314	-	41.314	32.133	35.427	32.716	37.662	14.647	421.658
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	0.349	0.151	0.232	-	0.232	0.247	0.186	0.203	0.171	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The FY 2016 funding request was reduced by \$2.5 million to account for the availability of prior year execution balances. Other Training Equipment line supports various types of Communication and Electronic training requirements. [P40A / MB044 SUBMARINE TRAINING SUPPORT EQUIPMENT]: MB044 SUBMARINE TRAINING SUPPORT EQUIPMENT This line procures submarine Fleet and team trainers sustaining equipment and systems, which emulate ship characteristics, as approved by the CNO. Representative training systems include, but are not limited to: Submarine Navigation Trainers which include the Virtual Environment Submarine (VESUB), Submarine Piloting and Navigation Trainers (SPAN), Reconfigurable SPAN (RSPAN), Submarine Bridge Trainer/Integrated SPAN (SBT/ISPAN), Navigation Databases, Ship Control Operator Trainer (SCOT), Electronic Chart Display and Information Systems-Navy (ECDIS-N) and PC-based Team Trainers which include the Mini-SPANs. These systems and Training Enhancement Changes (TECs) are identified by the Submarine Learning Center (SLC) for training activities, which are approved by the CNO. Supports Fleet requested updates and technical refresh of all the systems and products listed above. The SBT/ISPAN and upgrades to the existing navigation and mariner skills trainer in all homeports will be procured. The ISPAN Light Emitting Diode (LED) Ring will be procured for Homeports where an SBT Dome can't be accommodated. This line also provides configuration changes for the Voyage Management Systems (VMS), ECDIS-N, and the Submarine Multi Reconfigurable Training System (MRTS). The MRTS family includes VA CLASS Torpedo Room, Emergency Diesel Generator and Weapons Launch Console Team Trainer. which includes Submarine Communications Support System / Common Submarine Radio Room (SCSS / CSRR) trainers. SBT/ISPAN is comprised of Virtual Tactical, Sonar Simulation, Beam Forming Sonar Simulation Trainer, VMS, ECDIS-N, Radar Simulation, Navigation Aids, and Harbor Databases. [P40A / SHIP CONTROL OPERATOR TRAINER]: Funds requested in FY 2016 will procure a Ships Control Operator Trainer for the Guam Training Facility. [P40A / MB050 SUBMARINE SONAR TRAINERS]: MB050 SUBMARINE SONAR TRAINERS The Sonar Employment Trainer (SET) provides acoustic operator employment Fleet and team training for submarine sonar systems. It uses entirely commercial components to contain contact and environment models, simulations of the sensors and signal processing, simulated operator consoles, and an instructional subsystem including an instructor's console. SET is used to train advanced operators in the Advanced Sonar Employment and Sonar Supervisor courses. The SET is periodically upgraded to support current software Advanced Processor Builds (APBs) and Technical Insertions (TIs). The SET is an essential												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 8: Training Equipment		P-1 Line Item Number / Title: 2762 / Other Training Equipment
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
component of an emerging shore based training that supports the projected technology in the Fleet systems that are designed to meet current and future threats: the Acoustics, Rapid Commercial-Off-The-Shelf (COTS) Insertion (A-RCI). The SET is part of the solution to increasing operator competence and data recognition through employment training by its use of 3-D graphics, animation, audio, and scientific visualization methods to illustrate highly complex displays and concepts of oceanographic physics. The demands of curriculum and student throughout at the primary submarine training site at NAVSUBSCOL, Groton dictates the number and configuration of trainers provided. FY14: Procures one kit upgrade to SET and provides operator enhancement as directed by the Type Commander. FY15: Procures one kit and implements simulation upgrades to the SET as directed by the Type Commander. FY16: Procures one kit and implements simulation upgrades to the SET as directed by the Type Commander.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 8: Training Equipment					P-1 Line Item Number / Title: 2762 / Other Training Equipment			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Other Training Equipment	P-40a, P-5a, P-21		- / 59.997	- / 13.431	- / 4.994	- / 13.498	- / -	- / 13.498
1 / MB040 - BFTT SHIP SETS ()	P-3a		- / 41.240	- / 23.379	- / 26.278	- / 20.353	- / -	- / 20.353
2 / MB040 BFTT UPGRADE KITS ()	P-3a		- / 43.068	- / 3.834	- / 10.230	- / 6.774	- / -	- / 6.774
3 / MB040 - LHD 2 SSDS MK 2 UPGRADE ()	P-3a		- / 0.000	- / -	- / 1.308	- / 0.689	- / -	- / 0.689
Total Gross/Weapon System Cost			- / 144.305	- / 40.644	- / 42.810	- / 41.314	- / -	- / 41.314
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
Other Training Equipment	P-40a, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / -
1 / MB040 - BFTT SHIP SETS ()	P-3a		- / 20.364	- / 19.367	- / 16.156	- / 14.443	- / 14.647	- / 196.227
2 / MB040 BFTT UPGRADE KITS ()	P-3a		- / 6.987	- / 11.189	- / 13.078	- / 14.364	- / -	- / 109.524
3 / MB040 - LHD 2 SSDS MK 2 UPGRADE ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 1.997
Total Gross/Weapon System Cost			- / 32.133	- / 35.427	- / 32.716	- / 37.662	- / 14.647	- / 421.658
*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 add due to rounding.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8								P-1 Line Item Number / Title: 2762 / Other Training Equipment							Aggregated Items Title: Other Training Equipment				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) MB044 SUBMARINE TRAINING SUPPORT EQUIPMENT																				
1.1) SHIP CONTROL OPERATOR TRAINER ^(†)	A		-	-	2.400	-	-	-	-	-	-	9,100K	1	9.100	-	-	-	9,100K	1	9.100
1.2) MINOR TRAINING SUPPORT EQUIPMENT	A		-	-	4.248	-	-	0.131	-	-	0.184	-	-	0.125	-	-	-	-	-	0.125
1.3) NAV TRAINERS UPDATES, TECH REF	A		-	-	12.800	-	-	0.517	-	-	0.048	-	-	1.082	-	-	-	-	-	1.082
1.4) MRTS SCSS/ CSRR	A		-	-	5.819	-	-	0.610	-	-	-	-	-	-	-	-	-	-	-	-
1.5) SBT/ISPAN	A		-	-	14.733	-	-	3.376	-	-	3.525	-	-	1.933	-	-	-	-	-	1.933
1.6) SSN TO GUAM ^(†)	A		-	-	-	7,703K	1	7.703	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) MB044 SUBMARINE TRAINING SUPPORT EQUIPMENT			-	-	40.000	-	-	12.337	-	-	3.757	-	-	12.240	-	-	-	-	-	12.240
2) MB050 SUBMARINE SONAR TRAINERS																				
2.1) SET ^(†)	A		1,058K	8	8.463	1,094K	1	1.094	1,237K	1	1.237	1,258K	1	1.258	-	-	-	1,258K	1	1.258
2.2) AAT	A		288,350.00	40	11.534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) MB050 SUBMARINE SONAR TRAINERS			-	-	19.997	-	-	1.094	-	-	1.237	-	-	1.258	-	-	-	-	-	1.258
Total			-	-	59.997	-	-	13.431	-	-	4.994	-	-	13.498	-	-	-	-	-	13.498

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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) MB044 SUBMARINE TRAINING SUPPORT EQUIPMENT																				
1.1) SHIP CONTROL OPERATOR TRAINER ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) MINOR TRAINING SUPPORT EQUIPMENT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.3) NAV TRAINERS UPDATES, TECH REF	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.4) MRTS SCSS/ CSRR	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.5) SBT/ISPAN	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8						P-1 Line Item Number / Title: 2762 / Other Training Equipment									Aggregated Items Title: Other Training Equipment					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
1.6) SSN TO GUAM ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) MB044 SUBMARINE TRAINING SUPPORT EQUIPMENT			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) MB050 SUBMARINE SONAR TRAINERS																				
2.1) SET ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) AAT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) MB050 SUBMARINE SONAR TRAINERS			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8				P-1 Line Item Number / Title: 2762 / Other Training Equipment					Aggregated Items: Other Training Equipment			
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) MB044 SUBMARINE TRAINING SUPPORT EQUIPMENT												
1.1) SHIP CONTROL OPERATOR TRAINER		2016	NUWC Newport / RI	WR	** NO PCO **	Jan 2016	Apr 2016	1	9,100K	N	Sep 2016	
1.6) SSN TO GUAM ^(†)		2014	ELECTRIC BOAT / NEW LONDON	C / TBD	NAVSEA	Dec 2013	Mar 2015	1	7,703K	N	Feb 2013	
2) MB050 SUBMARINE SONAR TRAINERS												
2.1) SET		2014	NSWC CD / BETHESDA, MD	Reqn	NSWC CD	Feb 2014	Feb 2014	1	1,094K	N	Feb 2013	
2.1) SET		2015	NSWC CD / BETHESDA, MD	Reqn	NSWC CD	Feb 2015	Feb 2015	1	1,237K	N	Feb 2014	
2.1) SET		2016	NSWC CD / BETHESDA, MD	Reqn	NSWC CD	Feb 2016	Feb 2016	1	1,258K	N	Feb 2015	

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8										P-1 Line Item Number / Title: 2762 / Other Training Equipment													Aggregated Items: Other Training Equipment													
Items <i>(Units in Each)</i>							Fiscal Year 2014													Fiscal Year 2015																
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014													Calendar Year 2015													B A L			
							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) MB044 SUBMARINE TRAINING SUPPORT EQUIPMENT																																				
1.6) SSN TO GUAM																																				
	8	2014	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	B A L				

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015															
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8										P-1 Line Item Number / Title: 2762 / Other Training Equipment										Aggregated Items: Other Training Equipment															
Items (Units in Each)							Fiscal Year 2016										Fiscal Year 2017																		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016										Calendar Year 2017																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L				
1) MB044 SUBMARINE TRAINING SUPPORT EQUIPMENT																																			
1.6) SSN TO GUAM																																			
	8	2014	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	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8					P-1 Line Item Number / Title: 2762 / Other Training Equipment				Aggregated Items: Other Training Equipment			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	ELECTRIC BOAT - NEW LONDON	-	-	-	-	3	15	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-3a, Individual Modification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8				P-1 Line Item Number / Title: 2762 / Other Training Equipment						Modification Number / Title: 1 / MB040 - BFTT SHIP SETS		
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ <i>in Millions</i>)	41.240	23.379	26.278	20.353	-	20.353	20.364	19.367	16.156	14.443	14.647	196.227
Less PY Advance Procurement (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ <i>in Millions</i>)	41.240	23.379	26.278	20.353	-	20.353	20.364	19.367	16.156	14.443	14.647	196.227
Plus CY Advance Procurement (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ <i>in Millions</i>)	41.240	23.379	26.278	20.353	-	20.353	20.364	19.367	16.156	14.443	14.647	196.227
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ <i>in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Battle Force Tactical Training (BFTT)/Total Ship Training Capability (TSTC) family of systems provides realistic joint warfare training across the spectrum of armed conflict; realistic unit level team training in all warfare areas; a means to link ships together which are in different homeports for coordinated training; external stimulation of shipboard training systems; and simulation of non-shipboard forces. BFTT uses a distributed architecture, integrating existing training systems, and uses Distributed Interactive Simulation (DIS) and High Level Architecture (HLA) protocols. BFTT provides ships' Commanding Officers and Strike Group/Battle Force (SG/BF) Commanders with the ability to conduct coordinated realistic, high stress, combat system level team training as an integral part of the Afloat Training Groups (ATGs), the Tactical Training Groups and C2F/C3F Fleet Synthetic Training (FSTs) exercises. The Total Ship Training Capability (TSTC) integrates existing and emergent onboard training and assessment system capabilities to simulate realistic, "train like you fight", combat-like conditions across weapon sensor and combat systems. Migration to TSTC improvements is required to ensure continued, persistent FST interoperability. Commercial off the Shelf (COTS) Obsolescence mitigates replacement and upgrade of obsolete and out-of-production COTS components in BFTT systems installed throughout the Fleet to include the AN/USQ-T46D upgrade. BFTT T46D is a core component of the TSTC. FY14 - BFTT Ship Set funding will procure (16) T46D's and subsequent variants of hardware and software Build 3.5 series in support of AN/SQQ-89A(V)15 ACB 11, AEGIS Baseline 9, LSD 41/49. Installation funding supports installation of (20) BFTT AN/USQ-T46D Systems. FY15 - BFTT Ship Set funding will procure (17) T46D's and subsequent variants of hardware and software Build 3.5 series in support of AN/SQQ-89A(V)15 ACB 11, AEGIS Baseline 9, LSD 41/49. Installation funding supports installation of (16) BFTT AN/USQ-T46D Systems. FY16 - BFTT Ship Set funding will procure (11) T46D's and subsequent variants of hardware and software Build 3.5 series in support of AN/SQQ-89A(V)15 ACB 11, AEGIS Baseline 9, LSD 41/49. Installation funding supports installation of (17) BFTT An/USQ-T46D Systems.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8				P-1 Line Item Number / Title: 2762 / Other Training Equipment				Modification Number / Title: 1 / MB040 - BFTT SHIP SETS					
Models of Systems Affected: BFTT SHIP SETS - T46D'S				Modification Type:				Related RDT&E PEs: 0204571N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: MB040 - BFTT SHIP SETS													
B Kits													
Recurring													
1.1.1) BFTT SHIP SETS - NonOrganic	27 / 36.673	16 / 15.590	17 / 17.878	11 / 11.766	- / -	11 / 11.766	14 / 14.132	11 / 11.429	9 / 9.556	8 / 8.593	- / 9.247	113 / 134.864	
Subtotal: Recurring	- / 36.673	- / 15.590	- / 17.878	- / 11.766	- / -	- / 11.766	- / 14.132	- / 11.429	- / 9.556	- / 8.593	- / 9.247	- / 134.864	
Subtotal: MB040 - BFTT SHIP SETS	27 / 36.673	16 / 15.590	17 / 17.878	11 / 11.766	- / -	11 / 11.766	14 / 14.132	11 / 11.429	9 / 9.556	8 / 8.593	- / 9.247	113 / 134.864	
Subtotal: Procurement, All Modification Items	- / 36.673	- / 15.590	- / 17.878	- / 11.766	- / -	- / 11.766	- / 14.132	- / 11.429	- / 9.556	- / 8.593	- / 9.247	- / 134.864	
Installation													
Modification Item 1 of 1: MB040 - BFTT SHIP SETS	- / 4.567	- / 7.789	- / 8.400	- / 8.587	- / -	- / 8.587	- / 6.232	- / 7.938	- / 6.600	- / 5.850	- / 5.400	- / 61.363	
Subtotal: Installation	- / 4.567	- / 7.789	- / 8.400	- / 8.587	- / -	- / 8.587	- / 6.232	- / 7.938	- / 6.600	- / 5.850	- / 5.400	- / 61.363	
Total													
Total Cost (Procurement + Support + Installation)	41.240	23.379	26.278	20.353	-	20.353	20.364	19.367	16.156	14.443	14.647	196.227	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8										P-1 Line Item Number / Title: 2762 / Other Training Equipment										Modification Number / Title: 1 / MB040 - BFTT SHIP SETS											
Modification Item 1 of 1: MB040 - BFTT SHIP SETS																															
Manufacturer Information																															
Manufacturer Name: Various															Manufacturer Location: Various																
Administrative Leadtime (in Months): 2															Production Leadtime (in Months): 9																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Dec 2013				Dec 2014				Dec 2015				Dec 2016				Dec 2017				Dec 2018				Dec 2019					
Delivery Dates		Sep 2014				Sep 2015				Sep 2016				Sep 2017				Sep 2018				Sep 2019				Sep 2020					
Installation Information																															
Method of Implementation: AIT:: Installation Name: BFTT SHIP SETS																															
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		7 / 4.567		20 / 7.789		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		27 / 12.356					
FY 2014		- / -		- / -		16 / 8.400		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		16 / 8.400					
FY 2015		- / -		- / -		- / -		17 / 8.587		- / -		17 / 8.587		- / -		- / -		- / -		- / -		- / -		- / -		17 / 8.587					
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		11 / 6.232		- / -		- / -		- / -		- / -		- / -		11 / 6.232					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		14 / 7.938		- / -		- / -		- / -		- / -		14 / 7.938					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		11 / 6.600		- / -		- / -		- / -		11 / 6.600					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		9 / 5.850		- / -		- / -		9 / 5.850					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		8 / 5.400		- / -		8 / 5.400					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		7 / 4.567		20 / 7.789		16 / 8.400		17 / 8.587		- / -		17 / 8.587		11 / 6.232		14 / 7.938		11 / 6.600		9 / 5.850		8 / 5.400		- / -		113 / 61.363					
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	5	5	5	5	1	5	5	5	4	4	4	5	-	2	4	5	-	3	5	6	2	3	3	3	1	2	2	4	8	113
Out	7	5	5	5	5	-	6	5	5	4	4	4	5	-	2	4	5	-	2	4	8	-	2	4	5	-	2	3	4	8	113

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8				P-1 Line Item Number / Title: 2762 / Other Training Equipment				Modification Number / Title: 2 / MB040 BFTT UPGRADE KITS			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	43.068	3.834	10.230	6.774	-	6.774	6.987	11.189	13.078	14.364	-	109.524
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	43.068	3.834	10.230	6.774	-	6.774	6.987	11.189	13.078	14.364	-	109.524
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	43.068	3.834	10.230	6.774	-	6.774	6.987	11.189	13.078	14.364	-	109.524

(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:

BFTT/TSTC Upgrade Kits: Procure various quantities of upgrade kit/Engineering Change Proposal (ECP) system components, ShipAlts, Field Changes and Software Deliveries. ShipAlts are generally upgrades required to meet Combat Systems configuration requirements. Field Changes to existing BFTT, BEWT and Trainer Stimulator Simulator System (TSSS) systems include Information Assurance (IA) compliance, Obsolescence, Network upgrades and externally driven interface modifications. Software Deliveries required to support Combat System, IA and BFTT/BEWT/BEWT-II/TSSS Hardware requirements. Upgrade Kits and interface upgrades implement Fleet prioritized warfighting training improvements to the BFTT systems in order to meet evolving combat system capabilities. Training system improvements are a critical factor in achieving warfighter competencies and mission readiness. Unit costs are various.

FY14 - Upgrade/Field Change Kit funding will procure and integrate various BFTT upgrades to include Battle Force Tactical Training Electronic Warfare Trainer (BEWT) II upgrades, BFTT Software Baselines 3.5.C, 3.5.1 upgrades, and TSSS legacy radar interface upgrades. Integrate various BFTT system components/kits as well as complete system removal/upgrade of AN/USQ-T46(V) hardware. Produce Engineering Change Proposals (ECPs) and drawings to support FY15 and following procurements for AEGIS ACB-16 ships and SSDS ACB-16 ships. Installation funding will support installation of various training system hardware/software upgrades (ECPs/FCs) on surface ships.

FY15 - Upgrade/Field Change Kit funding will procure and integrate various Battle Force Tactical Training (BFTT)/Total Ship Training Capability (TSTC) family of systems upgrades to include Battle Force Tactical Training Electronic Warfare Trainer (BEWT) Baseline II Hardware & Software upgrades, BFTT Software Baselines 3.5.C, 3.5.1 & 5.0 upgrades, Naval Seamanship Ship handling Trainer and Training Simulation Stimulation System (TSSS) legacy radar interface upgrades. Produce and install USG-2B CEC Enhanced Training (CET) Kits, & CEC Interim Trainer (CIT) kits which provide critical CEC training capabilities that allow transfer of simulated CU data with external participants for AEGIS Baselines 9, 8, 7.2, 9.C2 (ACB -16) ships, as well as shore based Distributed Constructive Capability Units. Produce SAU 7000 Simulation/Stimulation field change kits for various CVN & AEGIS ships. Upgrade BFTT/TSTC Shipboard Connectivity Suite through a Tech Refresh. Upgrade various TSTC related shore based training systems. Provide funding to support AEGIS Shore Team Training Upgrades/Improvements for modernization. Installation funding supports installation and removal of various training system hardware/software upgrades (ECPs/FCs) on surface ships and related shore sites.

FY16 - Upgrade/Field Change Kit funding will procure and integrate various Battle Force Tactical Training (BFTT)/Total Ship Training Capability (TSTC) family of systems upgrades to include Battle Force Tactical Training Electronic Warfare Trainer (BEWT) Baseline II Hardware & Software upgrades, BFTT Software Baselines 3.5.C, 3.5.1 & 5.0 upgrades, Naval Seamanship Ship handling Trainer and Training Simulation Stimulation System (TSSS) legacy radar interface upgrades. Produce and install USG-2B CEC Enhanced Training (CET) Kits, & CEC Interim Trainer (CIT) kits which provide critical CEC training capabilities that allow transfer of simulated CU data with external participants for AEGIS Baselines 9, 8, 7.2, 9.C2 (ACB -16) ships, as well as shore based Distributed Constructive Capability Units. Produce SAU 7000 Simulation/Stimulation field change kits for various CVN & AEGIS ships. Upgrade BFTT/TSTC Shipboard Connectivity Suite through a Tech Refresh. Upgrade various TSTC related shore based training systems. Provide funding to support AEGIS Shore Team Training Upgrades/Improvements for modernization. Installation funding supports installation and removal of various training system hardware/software upgrades (ECPs/FCs) on surface ships and related shore sites.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8	P-1 Line Item Number / Title: 2762 / Other Training Equipment	Modification Number / Title: 2 / MB040 BFTT UPGRADE KITS

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8				P-1 Line Item Number / Title: 2762 / Other Training Equipment				Modification Number / Title: 2 / MB040 BFTT UPGRADE KITS				
Models of Systems Affected: Battle Force Tactical Training Upgrade Kits				Modification Type:				Related RDT&E PEs: 0204571N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: MB040 BFTT UPGRADE KITS												
B Kits												
Recurring												
1.1.1) BFTT UPGRADE KITS - NonOrganic	434 / 21.534	124 / 1.265	83 / 5.712	99 / 3.722	- / -	99 / 3.722	98 / 3.838	72 / 7.874	74 / 8.167	75 / 8.461	- / -	1,059 / 60.573
Subtotal: Recurring	- / 21.534	- / 1.265	- / 5.712	- / 3.722	- / -	- / 3.722	- / 3.838	- / 7.874	- / 8.167	- / 8.461	- / -	- / 60.573
Subtotal: MB040 BFTT UPGRADE KITS	434 / 21.534	124 / 1.265	83 / 5.712	99 / 3.722	- / -	99 / 3.722	98 / 3.838	72 / 7.874	74 / 8.167	75 / 8.461	- / -	1,059 / 60.573
Subtotal: Procurement, All Modification Items	- / 21.534	- / 1.265	- / 5.712	- / 3.722	- / -	- / 3.722	- / 3.838	- / 7.874	- / 8.167	- / 8.461	- / -	- / 60.573
Installation												
Modification Item 1 of 1: MB040 BFTT UPGRADE KITS	- / 21.534	- / 2.569	- / 4.518	- / 3.052	- / -	- / 3.052	- / 3.149	- / 3.315	- / 4.911	- / 5.903	- / -	- / 48.951
Subtotal: Installation	- / 21.534	- / 2.569	- / 4.518	- / 3.052	- / -	- / 3.052	- / 3.149	- / 3.315	- / 4.911	- / 5.903	- / -	- / 48.951
Total												
Total Cost (Procurement + Support + Installation)	43.068	3.834	10.230	6.774	-	6.774	6.987	11.189	13.078	14.364	-	109.524

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8		P-1 Line Item Number / Title: 2762 / Other Training Equipment			Modification Number / Title: 2 / MB040 BFTT UPGRADE KITS		

Modification Item 1 of 1: MB040 BFTT UPGRADE KITS

Manufacturer Information							
Manufacturer Name: VARIOUS				Manufacturer Location: VARIOUS			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
Delivery Dates	Mar 2014	Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020

Installation Information

Method of Implementation: AIT:: Installation Name: BFTT UPGRADE KITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	434 / 21.534	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	434 / 21.534
FY 2014	- / -	124 / 2.569	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	124 / 2.569
FY 2015	- / -	- / -	83 / 4.518	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	83 / 4.518
FY 2016	- / -	- / -	- / -	99 / 3.052	- / -	99 / 3.052	- / -	- / -	- / -	- / -	- / -	99 / 3.052
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	98 / 3.149	- / -	- / -	- / -	- / -	98 / 3.149
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 3.315	- / -	- / -	- / -	72 / 3.315
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 4.911	- / -	- / -	74 / 4.911
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	75 / 5.903	- / -	75 / 5.903
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	434 / 21.534	124 / 2.569	83 / 4.518	99 / 3.052	- / -	99 / 3.052	98 / 3.149	72 / 3.315	74 / 4.911	75 / 5.903	- / -	1,059 / 48.951

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	434	-	31	47	46	-	17	33	33	-	15	42	42	-	22	38	38	-	12	30	30	-	18	28	28	-	13	31	31	-	1,059
Out	434	-	31	47	46	-	17	33	33	-	15	42	42	-	22	38	38	-	12	30	30	-	18	28	28	-	13	31	31	-	1,059

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8	P-1 Line Item Number / Title: 2762 / Other Training Equipment	Modification Number / Title: 3 / MB040 - LHD 2 SSDS MK 2 UPGRADE

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	1.308	0.689	-	0.689	-	-	-	-	-	1.997
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	1.308	0.689	-	0.689	-	-	-	-	-	1.997
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	1.308	0.689	-	0.689	-	-	-	-	-	1.997
(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:

Procure a complete AN/USQ-T46D System for the LHD 2 Ship Self Defense System (SSDS) MK 2 Upgrade. Installation funding supports the installation of the LHD 2.

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8				P-1 Line Item Number / Title: 2762 / Other Training Equipment						Modification Number / Title: 3 / MB040 - LHD 2 SSDS MK 2 UPGRADE			
Models of Systems Affected: LHD 2 Ship Self Defense System MK 2 Upgrade				Modification Type:						Related RDT&E PEs: 0204571N			
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
Modification Item 1 of 1: MB040 - LHD 2 SSDS MK 2 UPGRADE													
B Kits													
Recurring													
1.1.1) LHD 2 SSDS MK 2 UPGRADE - NonOrganic	- / -	- / -	1 / 1.308	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.308	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 1.308	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.308	
<i>Subtotal: MB040 - LHD 2 SSDS MK 2 UPGRADE</i>	- / -	- / -	1 / 1.308	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.308	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 1.308	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.308	
Installation													
Modification Item 1 of 1: MB040 - LHD 2 SSDS MK 2 UPGRADE	- / 0.000	- / -	- / -	- / 0.689	- / -	- / 0.689	- / -	- / -	- / -	- / -	- / -	- / 0.689	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / 0.689	- / -	- / 0.689	- / -	- / -	- / -	- / -	- / -	- / 0.689	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	1.308	0.689	-	0.689	-	-	-	-	-	1.997	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 8	P-1 Line Item Number / Title: 2762 / Other Training Equipment	Modification Number / Title: 3 / MB040 - LHD 2 SSDS MK 2 UPGRADE

Modification Item 1 of 1: MB040 - LHD 2 SSDS MK 2 UPGRADE

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 9

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Dec 2014					
Delivery Dates		Sep 2015					

Installation Information

Method of Implementation: AIT:: Installation Name: LHD 2 SSDS MK 2 UPGRADE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	1 / 0.689	- / -	1 / 0.689	- / -	- / -	- / -	- / -	- / -	1 / 0.689
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 0.689	- / -	1 / 0.689	- / -	- / -	- / -	- / -	- / -	1 / 0.689

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment							P-1 Line Item Number / Title: 2815 / MATCALs					
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	255.633	8.953	16.999	10.011	-	10.011	8.546	5.926	6.074	6.203	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	255.633	8.953	16.999	10.011	-	10.011	8.546	5.926	6.074	6.203	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	255.633	8.953	16.999	10.011	-	10.011	8.546	5.926	6.074	6.203	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	1.340	2.730	0.609	-	0.609	-	-	-	-	-	4.679
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Marine Air Traffic Control and Landing Systems (MATCALs) is a fully automated all-weather expeditionary terminal Air Traffic Control (ATC) System that provides arrival/departure and enroute surveillance control, automated precision approach and landing control or Ground Controlled Approach, Tactical Air Navigation (TACAN), and other ATC services. MATCALs satisfies the operational requirements set forth by Specific Operational Requirements 34-22 of 12 Jul 1973; Remote Landing Site Tower (RLST) Operational Requirements Document (ORD) 341-88-93 of 25 Jul 1997; and Air Traffic Navigation Integration and Coordination System ORD 05-002 of 03 Dec 1992. MATCALs, with other Marine Air Command and Control Systems (MACCS) and federal agencies, provides the ability to project air combat power in the Amphibious Operations Area without regard to weather. ATC and landing automation reduces air traffic controllers' traffic handling and management time, allowing more time for mission response and task accomplishment. It supports a required increase in aircraft sortie rates and contributes to extended time on target. The system provides for integration of ATC into the total MACCS. MATCALs has three primary subsystems: (1) Air Traffic Control Subsystem consisting of an AN/TPS-73 Airport Surveillance Radar (ASR) and various peripheral equipment; (2) All-Weather Landing Subsystem consisting of an AN/TPN-22 Precision Approach Landing Radar; and (3) the Control and Communications Subsystem (AN/TSQ-131) with a Communications Control Group, radios, computer software, multi mode displays and peripherals. Other Fleet Marine Force ATC equipment supported by the MATCALs funding line are the AN/TSQ-120 Tower, AN/TRN-44 TACAN, the AN/TSQ-216 RLST and various related items. A portion of the current MATCALs equipment is being transitioned to the Air Surveillance and Precision Approach Radar Control Systems (ASPARCS) (Marine Requirements Oversight Committee (MROC) Decision Memorandum (DM) 11-2005 dated 8 December 2004). ASPARCS consists of an ASR, which will replace the AN/TPS-73; a Precision Approach Radar, which will replace the AN/TPN-22; and a Command and Control Node, which will replace the AN/TSQ-131. ASPARCS will provide greater mobility, transportability, reliability, maintainability, and interoperability with Marine Corps/Navy Command and Control Systems than the current MATCALs. An Acquisition Decision Memorandum was signed January 2005, approving the procurement of the Army AN/TPN-31 Air Traffic Navigation Integration and Coordination System (ATNAVICS) system to fulfill the ASPARCS requirement. The ATNAVICS ASR Range Extension is funded to meet requirements identified in the ATC Initial Capabilities Document ICD (ICD), MROC DM 75-7007, MACC Operational Advisory Group. The gaps identified require sustainment of legacy sensor capability until such time as ATNAVICS PrePlanned Product Improvement initiatives enhance system capability to support main air base traffic density and airspace. Additionally, the positive control enabled by increased ASR range reduces separation enabling increased sortie rates. Optimized Organizational Maintenance Activity System is an automated management information system that provides Navy and Marine Corps aviation organizational maintenance units with timely and accurate information to aid managers in their daily management of assigned aircraft and equipment.												

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LI 2815 - MATCALS
Navy

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment					P-1 Line Item Number / Title: 2815 / MATCALs			
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / MATCALs	P-5		- / 246.980	- / 4.579	- / 3.889	- / 3.707	- / -	- / 3.707
1 / AN/TPN-31A ATNAVICS ASR Range Extension (MJ455) (Modification)	P-3a		- / 8.653	- / 4.374	- / 11.022	- / 3.868	- / -	- / 3.868
2 / Optimized Organizational Maintenance Activity (OOMA) (MJ460) (Added Capability)	P-3a		- / 0.000	- / -	- / 2.088	- / 2.436	- / -	- / 2.436
Total Gross/Weapon System Cost			- / 255.633	- / 8.953	- / 16.999	- / 10.011	- / -	- / 10.011
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / MATCALs	P-5		- / -	- / -	- / -	- / -	- / -	- / -
1 / AN/TPN-31A ATNAVICS ASR Range Extension (MJ455) (Modification)	P-3a		- / 4.069	- / 2.402	- / 2.397	- / -	- / -	- / 36.785
2 / Optimized Organizational Maintenance Activity (OOMA) (MJ460) (Added Capability)	P-3a		- / 1.687	- / -	- / -	- / -	- / -	- / 6.211
Total Gross/Weapon System Cost			- / 8.546	- / 5.926	- / 6.074	- / 6.203	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 add due to rounding.								
Justification: FY2016 provides funding to procure: Two ATNAVICS Air Surveillance Radar Range Extensions, 10 Optimized Organizational Maintenance Activity systems, various MRIs and associated support.								

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Exhibit P-5, Cost Analysis: PB 2016 Navy										Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2815 / MATCALs						Item Number / Title [DODIC]: 1 / MATCALs								
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity (<i>Units in Each</i>)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (<i>\$ in Millions</i>)		246.980	4.579	3.889	3.707	-	3.707	-	-	-	-	-	-					
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) (<i>\$ in Millions</i>)		246.980	4.579	3.889	3.707	-	3.707	-	-	-	-	-	-					
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (<i>\$ in Millions</i>)		246.980	4.579	3.889	3.707	-	3.707	-	-	-	-	-	-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)		-	-	-	-	-	-	-	-	-	-	-	-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - MATCALs Cost																		
Recurring Cost																		
1.1.1) Prior Year Equipment ⁽¹⁾	1,231K	129	158.821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	158.821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - MATCALs Cost	-	-	158.821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - ECP / ECO Cost																		
Recurring Cost																		
2.1.1) MAINT / RELIABILITY IMPROVEMENT (MJ427)	-	-	56.760	-	-	4.457	-	-	3.780	-	-	3.611	-	-	-	-	-	3.611
Subtotal: Recurring Cost	-	-	56.760	-	-	4.457	-	-	3.780	-	-	3.611	-	-	-	-	-	3.611
Subtotal: Hardware - ECP / ECO Cost	-	-	56.760	-	-	4.457	-	-	3.780	-	-	3.611	-	-	-	-	-	3.611
Hardware - ACCEPTANCE TESTING Cost																		
Recurring Cost																		
3.1.1) Acceptance Testing (MJ860)	-	-	0.827	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.827	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - ACCEPTANCE TESTING Cost	-	-	0.827	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9							P-1 Line Item Number / Title: 2815 / MATCALs						Item Number / Title [DODIC]: 1 / MATCALs					
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - INTEGRATED LOGISTICS Cost																		
4.1) ILS (MJ800)	-	-	7.217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - INTEGRATED LOGISTICS Cost	-	-	7.217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - PRODUCTION ENGINEERING Cost																		
5.1) PE (MJ830)	-	-	19.067	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - PRODUCTION ENGINEERING Cost	-	-	19.067	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - MISCELLANEOUS SUPPORT Cost																		
6.1) INITIAL TRAINING (MJ990)	-	-	0.382	-	-	0.019	-	-	0.014	-	-	-	-	-	-	-	-	-
6.2) Install (MJ900)	-	-	3.906	-	-	0.103	-	-	0.095	-	-	0.096	-	-	-	-	-	0.096
Subtotal: Support - MISCELLANEOUS SUPPORT Cost	-	-	4.288	-	-	0.122	-	-	0.109	-	-	0.096	-	-	-	-	-	0.096
Gross/Weapon System Cost	-	-	246.980	-	-	4.579	-	-	3.889	-	-	3.707	-	-	-	-	-	3.707
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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 - MATCALs Cost																		
Recurring Cost																		
1.1.1) Prior Year Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - MATCALs Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - ECP / ECO Cost																		
Recurring Cost																		
2.1.1) MAINT / RELIABILITY IMPROVEMENT (MJ427)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9							P-1 Line Item Number / Title: 2815 / MATCALs						Item Number / Title [DODIC]: 1 / MATCALs					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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 - ECP / ECO Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - ACCEPTANCE TESTING Cost																		
Recurring Cost																		
3.1.1) Acceptance Testing (MJ860)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - ACCEPTANCE TESTING Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - INTEGRATED LOGISTICS Cost																		
4.1) ILS (MJ800)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - INTEGRATED LOGISTICS Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - PRODUCTION ENGINEERING Cost																		
5.1) PE (MJ830)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - PRODUCTION ENGINEERING Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - MISCELLANEOUS SUPPORT Cost																		
6.1) INITIAL TRAINING (MJ990)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) Install (MJ900)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - MISCELLANEOUS SUPPORT Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Footnotes:																		
(1) Consists of PY costs of cost elements no longer being procured.																		

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2815 / MATCALs	Modification Number / Title: 1 / AN/TPN-31A ATNAVICS ASR Range Extension (MJ455)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	8.653	4.374	11.022	3.868	-	3.868	4.069	2.402	2.397	-	-	36.785
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	8.653	4.374	11.022	3.868	-	3.868	4.069	2.402	2.397	-	-	36.785
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8.653	4.374	11.022	3.868	-	3.868	4.069	2.402	2.397	-	-	36.785
(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 Air Traffic Navigation Integration and Coordination System (ATNAVICS) Air Surveillance Radar (ASR) Range Extension is funded to meet requirements identified in the Air Traffic Control (ATC) Initial Capabilities Document, Marine Requirements Oversight Committee Decision Memorandum 75-7007, Marine Aviation Command and Control Operational Advisory Group and Headquarters Marine Corps APX-25 Requirement Clarification letter dated 05 Jan 2010. The gaps identified require sustainment of legacy sensor capability until such time as ATNAVICS PrePlanned Product Improvement initiatives enhance system capability to support main air base traffic density and airspace. Additionally, the positive control enabled by increased ASR range reduces separation enabling increased sortie rates. The End Item Kits for the ATNAVICS ASR Range Extension that are being procured consist of: ASR transmitter, environmental control unit/power generator, Radio Frequency transmission line, ASR receiver/exciter and signal data processors and required software code modifications to system Lowest Repairable Units.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2815 / MATCALs				Modification Number / Title: 1 / AN/TPN-31A ATNAVICS ASR Range Extension (MJ455)					
Models of Systems Affected: MATCALs				Modification Type: Modification				Related RDT&E PEs: 0604504N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/TPN-31A ATNAVICS ASR Range Extension (MJ455)													
B Kits													
Non-Recurring													
1.1.1) EQUIPMENT - NonOrganic ⁽²⁾	1 / 2.166	2 / 2.240	6 / 6.624	2 / 2.208	- / -	2 / 2.208	2 / 2.400	1 / 1.200	1 / 1.200	- / -	- / -	15 / 18.038	
Subtotal: Non-Recurring	- / 2.166	- / 2.240	- / 6.624	- / 2.208	- / -	- / 2.208	- / 2.400	- / 1.200	- / 1.200	- / -	- / -	- / 18.038	
Subtotal: AN/TPN-31A ATNAVICS ASR Range Extension (MJ455)	1 / 2.166	2 / 2.240	6 / 6.624	2 / 2.208	- / -	2 / 2.208	2 / 2.400	1 / 1.200	1 / 1.200	- / -	- / -	15 / 18.038	
Subtotal: Procurement, All Modification Items	- / 2.166	- / 2.240	- / 6.624	- / 2.208	- / -	- / 2.208	- / 2.400	- / 1.200	- / 1.200	- / -	- / -	- / 18.038	
Support (All Modification Items)													
2.1) Integrated Logistics Support	- / 0.949	- / 0.151	- / 0.275	- / 0.110	- / -	- / 0.110	- / 0.117	- / 0.138	- / 0.138	- / -	- / -	- / 1.878	
2.2) Production Engineering	- / 5.538	- / 0.471	- / 1.102	- / 0.522	- / -	- / 0.522	- / 0.560	- / 0.564	- / 0.559	- / -	- / -	- / 9.316	
Subtotal: Support	- / 6.487	- / 0.622	- / 1.377	- / 0.632	- / -	- / 0.632	- / 0.677	- / 0.702	- / 0.697	- / -	- / -	- / 11.194	
Installation													
Modification Item 1 of 1: AN/TPN-31A ATNAVICS ASR Range Extension (MJ455)	- / 0.000	- / 1.512	- / 3.021	- / 1.028	- / -	- / 1.028	- / 0.992	- / 0.500	- / 0.500	- / -	- / -	- / 7.553	
Subtotal: Installation	- / 0.000	- / 1.512	- / 3.021	- / 1.028	- / -	- / 1.028	- / 0.992	- / 0.500	- / 0.500	- / -	- / -	- / 7.553	
Total													
Total Cost (Procurement + Support + Installation)	8.653	4.374	11.022	3.868	-	3.868	4.069	2.402	2.397	-	-	36.785	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2815 / MATCALs	Modification Number / Title: 1 / AN/TPN-31A ATNAVICS ASR Range Extension (MJ455)

Modification Item 1 of 1: AN/TPN-31A ATNAVICS ASR Range Extension (MJ455)

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Marlborough, MA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Jun 2014	Jun 2015	Jun 2016				

Installation Information

Method of Implementation: AIT:: Installation Name: EQUIPMENT

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	1 / 0.504	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.504
FY 2014	- / -	2 / 1.008	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.008
FY 2015	- / -	- / -	6 / 3.021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.021
FY 2016	- / -	- / -	- / -	2 / 1.028	- / -	2 / 1.028	- / -	- / -	- / -	- / -	- / -	2 / 1.028
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.992	- / -	- / -	- / -	- / -	2 / 0.992
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.500	- / -	- / -	- / -	1 / 0.500
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.500	- / -	- / -	1 / 0.500
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	3 / 1.512	6 / 3.021	2 / 1.028	- / -	2 / 1.028	2 / 0.992	1 / 0.500	1 / 0.500	- / -	- / -	15 / 7.553

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	2	1	-	-	3	3	-	-	1	1	-	-	1	1	-	-	1	-	-	-	1	-	-	-	-	-	-	15
Out	-	-	-	2	1	-	-	3	3	-	-	1	1	-	-	1	1	-	-	1	-	-	-	1	-	-	-	-	-	-	15

Footnotes:

(2) The delivery of the 1st Air Traffic Navigation Integration and Coordination System Air Surveillance Radar (ASR) Range Extension slipped from FY13 to FY14 because of delays incurred during flight and transportability testing. We are still installing the first system within 12 months of its transfer from the vendor to the government. The FY15 increase for necessary Reliability Improvements to resolve obsolescence issues currently in the fleet. The ASR Range Extension is in response to the HQMC APX-25 Requirement Clarification letter dated 05 Jan 2010.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2815 / MATCALs	Modification Number / Title: 2 / Optimized Organizational Maintenance Activity (OOMA) (MJ460)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	2.088	2.436	-	2.436	1.687	-	-	-	-	6.211
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	2.088	2.436	-	2.436	1.687	-	-	-	-	6.211
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	2.088	2.436	-	2.436	1.687	-	-	-	-	6.211
(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:

A new start for FY15, Optimized Organizational Maintenance Activity System is an automated management information system that provides Navy and Marine Corps aviation organizational maintenance units with timely and accurate information to aid managers in their daily management of assigned aircraft and equipment.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2815 / MATCALs				Modification Number / Title: 2 / Optimized Organizational Maintenance Activity (OOMA) (MJ460)					
Models of Systems Affected: NAS/MCAS				Modification Type: Added Capability				Related RDT&E PEs: 0604604N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Optimized Organizational Maintenance Activity (OOMA) (MJ460)													
B Kits													
Recurring													
1.1.1) Equipment - NonOrganic ⁽³⁾	- / -	- / -	10 / 1.500	10 / 1.554	- / -	10 / 1.554	4 / 0.639	- / -	- / -	- / -	- / -	24 / 3.693	
Subtotal: Recurring	- / 0.000	- / -	- / 1.500	- / 1.554	- / -	- / 1.554	- / 0.639	- / -	- / -	- / -	- / -	- / 3.693	
Subtotal: Optimized Organizational Maintenance Activity (OOMA) (MJ460)	- / -	- / -	10 / 1.500	10 / 1.554	- / -	10 / 1.554	4 / 0.639	- / -	- / -	- / -	- / -	24 / 3.693	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / 1.500	- / 1.554	- / -	- / 1.554	- / 0.639	- / -	- / -	- / -	- / -	- / 3.693	
Support (All Modification Items)													
2.1) Integrated Logistics Support	- / -	- / -	- / 0.219	- / 0.220	- / -	- / 0.220	- / 0.242	- / -	- / -	- / -	- / -	- / 0.681	
2.2) Production Engineering	- / -	- / -	- / 0.319	- / 0.342	- / -	- / 0.342	- / 0.374	- / -	- / -	- / -	- / -	- / 1.035	
2.3) Acceptance Testing	- / -	- / -	- / 0.050	- / 0.055	- / -	- / 0.055	- / 0.061	- / -	- / -	- / -	- / -	- / 0.166	
Subtotal: Support	- / 0.000	- / -	- / 0.588	- / 0.617	- / -	- / 0.617	- / 0.677	- / -	- / -	- / -	- / -	- / 1.882	
Installation													
Modification Item 1 of 1: Optimized Organizational Maintenance Activity (OOMA) (MJ460)	- / 0.000	- / -	- / -	- / 0.265	- / -	- / 0.265	- / 0.371	- / -	- / -	- / -	- / -	- / 0.636	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 0.265	- / -	- / 0.265	- / 0.371	- / -	- / -	- / -	- / -	- / 0.636	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	2.088	2.436	-	2.436	1.687	-	-	-	-	6.211	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2815 / MATCALs	Modification Number / Title: 2 / Optimized Organizational Maintenance Activity (OOMA) (MJ460)

Modification Item 1 of 1: Optimized Organizational Maintenance Activity (OOMA) (MJ460)

Manufacturer Information

Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 9			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Dec 2014	Dec 2015				
Delivery Dates		Sep 2015	Sep 2016				

Installation Information

Method of Implementation: [none specified]:: Installation Name: Equipment

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	10 / 0.265	- / -	10 / 0.265	- / -	- / -	- / -	- / -	- / -	10 / 0.265
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.265	- / -	- / -	- / -	- / -	10 / 0.265
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.106	- / -	- / -	- / -	- / -	4 / 0.106
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	10 / 0.265	- / -	10 / 0.265	14 / 0.371	- / -	- / -	- / -	- / -	24 / 0.636

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	5	5	-	-	7	3	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	24
Out	-	-	-	-	-	-	-	-	-	5	5	-	-	7	3	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	24

Footnotes:

⁽³⁾ FY15 increase is for added capability. PMW-150 is the government agency that owns and delivers Optimized Organizational Maintenance Activity (OOMA). Based on the availability of PMW-150 to install OOMA at all of our Marine Corps sites we were unable to schedule our procurements and installs during the same FY when the item is "delivered" to OOMA but is not actually delivered to the operational site for 3 months.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment	P-1 Line Item Number / Title: 2831 / Shipboard Air Traffic Control

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	190.884	8.675	9.366	9.346	-	9.346	9.177	9.225	9.434	9.630	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	190.884	8.675	9.366	9.346	-	9.346	9.177	9.225	9.434	9.630	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	190.884	8.675	9.366	9.346	-	9.346	9.177	9.225	9.434	9.630	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.020	-	-	-	-	-	-	-	-	-	0.020
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DESCRIPTION: Shipboard Air Traffic Control (SATC) systems are responsible for safe and expeditious control of air traffic within 50 Nautical Miles of a ship. SATC systems include the air traffic surveillance radar, AN/SPN-43, and the air traffic central tracking and control system, AN/TPX-42, which has two major configurations: Carrier Air Traffic Control Center-Direct Altitude and Identity Readout (CATCC-DAIR) and Amphibious Air Traffic Control Center-Direct Altitude and Identity Readout (AATCC-DAIR). Both DAIR systems use AN/SPN-43 and Identification Friend or Foe (IFF) inputs to track and control aircraft. Obsolescence problems are being addressed through various upgrades in a phased approach. The major upgrades include a series of AN/TPX-42 modification kits requiring various combinations of AN/UYK-44 processor rehost, track processor upgrade, AN/UYQ-70 console, audio recorder, flat panel display, and other components to bring the predecessor system to AN/TPX-42A(V)14 with field changes 1, 2, 3, 4, and 5 configuration and eventually to the Air Traffic Control Multifunction Console configuration. The AN/SPN-43 radar system is required for the service-life of CVN68-CVN77 & LHA/LHD class ships with no replacement system identified.

Installing Agent: Shipyards and Alteration Installation Teams.

When installation to be made: Selected Restricted Availability (SRA) / Restricted Availability (RAV).

Ships or facilities to receive the equipment: CVNs, LHD/LHAs, Software Support Activity (NAWCAD, St Inigoes, MD), Integrated Combat System Test Facility (San Diego, CA), Landing Systems Test Facility (NAWCAD, Patuxent River, MD), and training sites.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment					P-1 Line Item Number / Title: 2831 / Shipboard Air Traffic Control			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056) (Modernization)	P-3a		- / 190.884	- / 8.675	- / 9.366	- / 9.346	- / -	- / 9.346
Total Gross/Weapon System Cost			- / 190.884	- / 8.675	- / 9.366	- / 9.346	- / -	- / 9.346
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056) (Modernization)	P-3a		- / 9.177	- / 9.225	- / 9.434	- / 9.630	Continuing	Continuing
Total Gross/Weapon System Cost			- / 9.177	- / 9.225	- / 9.434	- / 9.630	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 add due to rounding.								
Justification: FY 2016 provides funding to procure: six AN/TPX-42 UPG FC4 kits, three AN/TPX-42 UPG FC5 kits, six AN/TPX-42 Embedded Trainers, one AN/TPX-42 Multi-Function Console, two AN/TPX-42 ECP Upgrades, four AN/SPN-43 ECP Upgrades and associated support.								

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Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2831 / Shipboard Air Traffic Control				Modification Number / Title: 1 / SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	190.884	8.675	9.366	9.346	-	9.346	9.177	9.225	9.434	9.630	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	190.884	8.675	9.366	9.346	-	9.346	9.177	9.225	9.434	9.630	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	190.884	8.675	9.366	9.346	-	9.346	9.177	9.225	9.434	9.630	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The equipment and installation costs on this P-3a are for individual modification programs that do not exceed \$5 million in either budget or \$10 million in three years. This exhibit summarizes procurement and installation for Cost Codes MP023, MP048, MP049, MP050, MP051, and MP052. Line item "Engineering Changes to Correct Deficiencies" captures unanticipated emergent engineering changes. Inventory Objectives (13) TPX-42 UPG, FC3 E Kit, (3) TPX-42 UPG G Kit, (29) TPX-42 UPG, FC4, (24) TPX-42 UPG FC5, (25) TPX-42 Embedded Trainer, (25) TPX-42 Multi-Function Console, (29) TPX-42 ECP Upgrades, (38) SPN-43 ECP Upgrades as set forth in the respective CNO letters authorizing each modification.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2831 / Shipboard Air Traffic Control				Modification Number / Title: 1 / SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)					
Models of Systems Affected: CVNs, L-class			Modification Type: Modernization					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)													
B Kits													
Recurring													
1.1.1) TPX-42 UPG, FC3 E Kit - NonOrganic ⁽¹⁾	11 / 8.765	2 / 1.645	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 10.410	
1.1.3) TPX-42 UPG, G Kit - NonOrganic	2 / 3.397	1 / 0.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.509	
1.1.4) TPX-42 UPG, FC4 - NonOrganic	4 / 0.580	- / -	- / -	6 / 0.300	- / -	6 / 0.300	6 / 0.306	2 / 0.104	6 / 0.318	5 / 0.275	- / -	29 / 1.883	
1.1.5) TPX-42 UPG, FC5 - NonOrganic	5 / 0.452	5 / 0.771	4 / 1.917	3 / 1.467	- / -	3 / 1.467	3 / 1.496	2 / 0.998	2 / 1.003	- / -	- / -	24 / 8.104	
1.1.6) TPX-42 Embedded Trainer - NonOrganic	- / -	4 / 0.255	4 / 0.354	6 / 0.526	- / -	6 / 0.526	6 / 0.506	2 / 0.140	1 / 0.071	2 / 0.148	- / -	25 / 2.000	
1.1.7) TPX-42 Multi-Function Console - NonOrganic	- / -	- / -	- / -	1 / 1.350	- / -	1 / 1.350	1 / 1.425	2 / 2.850	2 / 2.856	2 / 2.962	17 / 22.630	25 / 34.073	
1.1.8) TPX-42 ECP Upgrades - NonOrganic	- / -	- / -	4 / 1.378	2 / 0.658	- / -	2 / 0.658	2 / 0.316	2 / 0.317	2 / 0.670	2 / 0.673	15 / 4.500	29 / 8.512	
1.1.17) SPN-43 ECP Upgrade - NonOrganic	3 / 3.083	3 / 0.637	3 / 0.805	4 / 1.073	- / -	4 / 1.073	2 / 0.268	2 / 0.268	3 / 0.345	3 / 0.587	15 / 1.900	38 / 8.966	
1.1.18) Prior Year Equipment - NonOrganic	115 / 146.439	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	115 / 146.439	
Subtotal: Recurring	- / 162.716	- / 3.420	- / 4.454	- / 5.374	- / -	- / 5.374	- / 4.317	- / 4.677	- / 5.263	- / 4.645	- / 29.030	- / 223.896	
Subtotal: SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)	140 / 162.716	15 / 3.420	15 / 4.454	22 / 5.374	- / -	22 / 5.374	20 / 4.317	12 / 4.677	16 / 5.263	14 / 4.645	47 / 29.030	301 / 223.896	
Subtotal: Procurement, All Modification Items	- / 162.716	- / 3.420	- / 4.454	- / 5.374	- / -	- / 5.374	- / 4.317	- / 4.677	- / 5.263	- / 4.645	- / 29.030	- / 223.896	
Support (All Modification Items)													
2.1) Engineering Changes to Correct Deficiencies	- / -	- / -	- / 0.350	- / 0.350	- / -	- / 0.350	- / 0.355	- / 0.356	- / 0.357	- / 0.361	Continuing	Continuing	
2.2) Integrated Logistics Support	- / 2.701	- / 0.229	- / 0.280	- / 0.280	- / -	- / 0.280	- / 0.284	- / 0.285	- / 0.286	- / 0.289	Continuing	Continuing	
2.3) Production Engineering	- / 3.256	- / 1.296	- / 0.364	- / 0.263	- / -	- / 0.263	- / 0.310	- / 0.312	- / 0.267	- / 0.270	Continuing	Continuing	
2.4) Quality Assurance	- / 0.606	- / 0.028	- / 0.050	- / 0.050	- / -	- / 0.050	- / 0.050	- / 0.050	- / 0.047	- / 0.048	Continuing	Continuing	
2.5) Acceptance Test & Evaluation	- / 0.198	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.198	
Subtotal: Support	- / 6.761	- / 1.553	- / 1.044	- / 0.943	- / -	- / 0.943	- / 0.999	- / 1.003	- / 0.957	- / 0.968	Continuing	Continuing	
Installation													
Modification Item 1 of 1: SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)	- / 21.407	- / 3.702	- / 3.868	- / 3.029	- / -	- / 3.029	- / 3.861	- / 3.545	- / 3.214	- / 4.017	- / 26.810	- / 73.453	
Subtotal: Installation	- / 21.407	- / 3.702	- / 3.868	- / 3.029	- / -	- / 3.029	- / 3.861	- / 3.545	- / 3.214	- / 4.017	- / 26.810	- / 73.453	
Total													

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2831 / Shipboard Air Traffic Control						Modification Number / Title: 1 / SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)			
Models of Systems Affected: CVNs, L-class				Modification Type: Modernization						Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Total Cost (Procurement + Support + Installation)	190.884	8.675	9.366	9.346	-	9.346	9.177	9.225	9.434	9.630	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2831 / Shipboard Air Traffic Control	Modification Number / Title: 1 / SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)

Modification Item 1 of 1: SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)

Manufacturer Information							
Manufacturer Name: NAWCAD				Manufacturer Location: Patuxent River, MD			
Administrative Leadtime (in Months): 7				Production Leadtime (in Months): 6			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Apr 2014	Apr 2015	Apr 2016				
Delivery Dates	Oct 2014	Oct 2015	Oct 2016				

Installation Information

Method of Implementation: Field Change Install Team:: Installation Name: SATC Modernization Kit Summary

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	127 / 21.407	13 / 3.702	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	140 / 25.109
FY 2014	- / -	- / -	15 / 3.868	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 3.868
FY 2015	- / -	- / -	- / -	11 / 1.881	- / -	11 / 1.881	- / -	- / -	- / -	- / -	- / -	11 / 1.881
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	19 / 2.396	- / -	- / -	- / -	- / -	19 / 2.396
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 1.932	- / -	- / -	- / -	17 / 1.932
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.932	- / -	- / -	8 / 0.932
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.572	- / -	12 / 1.572
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.475	10 / 1.475
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 2.580	15 / 2.580
Total	127 / 21.407	13 / 3.702	15 / 3.868	11 / 1.881	- / -	11 / 1.881	19 / 2.396	17 / 1.932	8 / 0.932	12 / 1.572	25 / 4.055	247 / 41.745

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	127	3	6	3	1	4	7	3	1	4	3	3	1	6	6	6	1	6	6	5	-	-	4	4	-	2	6	4	-	25	247
Out	127	3	4	5	1	4	4	6	1	4	3	3	1	6	6	6	1	6	6	5	-	-	4	4	-	2	6	4	-	25	247

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2831 / Shipboard Air Traffic Control	Modification Number / Title: 1 / SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)

Modification Item 1 of 1: SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)

Installation Information

Method of Implementation: [none specified]:: Installation Name: TPX-42 Multi-Function Console

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.900	- / -	- / -	- / -	- / -	1 / 0.900
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.962	- / -	- / -	- / -	1 / 0.962
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.932	- / -	- / -	2 / 1.932
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.947	- / -	2 / 1.947
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.950	2 / 1.950
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 16.570	17 / 16.570
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.900	1 / 0.962	2 / 1.932	2 / 1.947	19 / 18.520	25 / 24.261

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	1	-	-	1	1	-	-	19	25
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	1	-	-	1	1	-	-	19	25

Method of Implementation: [none specified]:: Installation Name: TPX-42 ECP Upgrades

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	4 / 1.148	- / -	4 / 1.148	- / -	- / -	- / -	- / -	4 / 1.148
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.565	- / -	- / -	- / -	- / -	2 / 0.565
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.651	- / -	- / -	- / -	2 / 0.651
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.350	- / -	- / -	2 / 0.350
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.498	- / -	2 / 0.498
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.500	2 / 0.500

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2831 / Shipboard Air Traffic Control	Modification Number / Title: 1 / SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)

Modification Item 1 of 1: SATC Modernization Kit Summary (MP023, MP048, MP049, MP050, MP051, MP052, MP056)

Installation Information

Method of Implementation: [none specified]:: Installation Name: TPX-42 ECP Upgrades

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 3.735	15 / 3.735
Total	- / -	- / -	- / -	4 / 1.148	- / -	4 / 1.148	2 / 0.565	2 / 0.651	2 / 0.350	2 / 0.498	17 / 4.235	29 / 7.447

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	2	2	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	17	29
Out	-	-	-	-	-	-	-	-	-	-	2	2	-	-	1	1	-	-	1	1	-	-	1	1	-	-	1	1	-	17	29

Footnotes:

⁽¹⁾ Cost element was previously named TPX-42 UPG E-Kit

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment							P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	92.218	20.758	21.357	21.281	-	21.281	26.551	36.998	40.879	41.735	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	92.218	20.758	21.357	21.281	-	21.281	26.551	36.998	40.879	41.735	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	92.218	20.758	21.357	21.281	-	21.281	26.551	36.998	40.879	41.735	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	0.619	0.248	0.403	-	0.403	0.107	-	-	-	-	1.377
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Automatic Carrier Landing System (ACLS) provides the primary precision electronic guidance for landing aircraft under all weather conditions on CVNs, LHAs, LHDs and selected Naval Air Stations. Many of the components in the system have been in service for more than twenty years. This program funds maintainability, reliability and supportability improvements to existing equipment components that can no longer be maintained and supported, as well as items providing upgraded operational capability. AN/SPN-46 Life Cycle Extension (LCE) sustainment efforts will be supplemented with other changes, as necessary, to offset obsolescence and supportability issues, the need for Commercial Off-The-Shelf (COTS) refresh, and to support system interface requirements. LCE efforts include Radar Control Group Unit 19, Embedded Global Positioning System and Inertial Navigation System (EGI) replacement, Computer Group replacement, Radar Receiver set replacement, Peripheral Display replacement, and Common Console replacement efforts. AN/SPN-41 LCE sustainment efforts will be supplemented with other changes, as necessary, to offset obsolescence and supportability issues and to support systems interface requirements. Additionally, the AN/SPN-41 system is the Joint Precision Approach and Landing System (JPALS) back-up system. Installing Agent: Shipyards and Alteration Installation Teams (AITs). Ships or facilities to receive equipment: CVNs, LHAs, LHDs, the In-Service Engineering Agent (ISEA-NAWCAD, St. Inigoes), selected shore sites and the training site. Note: Prior year total amount only accounts for items funded in the current FYDP.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy	Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System

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

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / ACLS MOD KITS SUMMARY PN408 (Modernization)	P-3a		- / 30.776	- / 6.296	- / 4.247	- / 10.004	- / -	- / 10.004
2 / AN/SPN-46 (V) 3 EGI PN411 (Reliability)	P-3a		- / 5.775	- / 0.380	- / 0.200	- / -	- / -	- / -
3 / AN/SPN-46 (V)3 Computer Group (LCE) PN412 (Reliability)	P-3a		- / 5.195	- / -	- / 0.525	- / -	- / -	- / -
4 / AN/SPN-46 (V)3 Radar Set Group PN413 (Reliability)	P-3a		- / 10.291	- / 4.049	- / 4.558	- / 6.314	- / -	- / 6.314
5 / AN/SPN-46 (V)3 Peripheral Display (LCE) PN414 (Reliability)	P-3a		- / 5.124	- / 0.922	- / 0.220	- / 0.400	- / -	- / 0.400
6 / AN/SPN-46 Common Console(V)3 LCE PN415 (Reliability)	P-3a		- / 11.336	- / 0.735	- / 0.520	- / -	- / -	- / -
7 / AN/SPN-41 Transmitter MOD (LCE) PN416 (Modernization)	P-3a		- / 2.431	- / 1.443	- / 1.503	- / 0.405	- / -	- / 0.405
8 / AN/SPN-41 Coder Monitor (LCE) PN417 (Modernization)	P-3a		- / 6.415	- / 2.161	- / 3.046	- / 1.243	- / -	- / 1.243
9 / AN/SPN-41 Electronic Drawer Assembly (LCE) PN418 (Modernization)	P-3a		- / 12.619	- / 2.956	- / 4.323	- / 1.864	- / -	- / 1.864
10 / AN/SPN-41 Radome Hardware Upgrade (LCE) PN419 (Modernization)	P-3a		- / 2.256	- / 1.816	- / 2.215	- / 1.051	- / -	- / 1.051
Total Gross/Weapon System Cost			- / 92.218	- / 20.758	- / 21.357	- / 21.281	- / -	- / 21.281

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / ACLS MOD KITS SUMMARY PN408 (Modernization)	P-3a		- / 19.086	- / 35.184	- / 40.879	- / 41.735	Continuing	Continuing
2 / AN/SPN-46 (V) 3 EGI PN411 (Reliability)	P-3a		- / -	- / -	- / -	- / -	- / 0.712	- / 7.067
3 / AN/SPN-46 (V)3 Computer Group (LCE) PN412 (Reliability)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 5.720
4 / AN/SPN-46 (V)3 Radar Set Group PN413 (Reliability)	P-3a		- / 1.538	- / -	- / -	- / -	- / -	- / 26.750
5 / AN/SPN-46 (V)3 Peripheral Display (LCE) PN414 (Reliability)	P-3a		- / -	- / -	- / -	- / -	- / 0.924	- / 7.590
6 / AN/SPN-46 Common Console(V)3 LCE PN415 (Reliability)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 12.591
7 / AN/SPN-41 Transmitter MOD (LCE) PN416 (Modernization)	P-3a		- / 1.141	- / 0.080	- / -	- / -	- / -	- / 7.003
8 / AN/SPN-41 Coder Monitor (LCE) PN417 (Modernization)	P-3a		- / 1.041	- / 0.300	- / -	- / -	- / -	- / 14.206
9 / AN/SPN-41 Electronic Drawer Assembly (LCE) PN418 (Modernization)	P-3a		- / 2.593	- / 1.392	- / -	- / -	- / -	- / 25.747
10 / AN/SPN-41 Radome Hardware Upgrade (LCE) PN419 (Modernization)	P-3a		- / 1.152	- / 0.042	- / -	- / -	- / -	- / 8.532
Total Gross/Weapon System Cost			- / 26.551	- / 36.998	- / 40.879	- / 41.735	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 add due to rounding.

Justification:

FY16 provides funding to procure twenty one ACLS modification kits (PN408) which include thirteen AN/SPN-46 COTS Refresh, three AN/SPN-46 Obsolescence, and five AN/SPN-35 Receiver Transmitter Modifications. Also FY16 procures four AN/SPN-46 Radar Set Groups (PN413), one AN/SPN-41 Transmitter Modifications (PN416), one AN/SPN-41 Coder Monitors (PN417), and one AN/SPN-41 Electronic Drawer Assemblies (PN418), and two AN/SPN-41 Radome Hardware Upgrades (PN419).

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System					Modification Number / Title: 1 / ACLS MOD KITS SUMMARY PN408			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	30.776	6.296	4.247	10.004	-	10.004	19.086	35.184	40.879	41.735	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	30.776	6.296	4.247	10.004	-	10.004	19.086	35.184	40.879	41.735	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	30.776	6.296	4.247	10.004	-	10.004	19.086	35.184	40.879	41.735	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 equipment and installation costs on this P-3a are for individual modification programs for AN/SPN-35/41/46 systems. Line item "Engineering Changes to Correct Deficiencies" captures anticipated emergent engineering changes. PMA 213 configuration control board approves inventory objectives. Contract and Delivery dates are various.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System					Modification Number / Title: 1 / ACLS MOD KITS SUMMARY PN408				
Models of Systems Affected: CVN's L-class, selected shore sites				Modification Type: Modernization					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: ACLS MOD KITS SUMMARY PN408													
B Kits													
Non-Recurring													
1.1.1) AN/SPN-46 TS-3098 - NonOrganic	16 / 1.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.670	
1.1.2) AN/SPN-41 XMTR MOD - NonOrganic	52 / 0.543	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 0.543	
1.1.3) AN/SPN-46 COTS Refresh - NonOrganic ⁽¹⁾	- / -	10 / 4.305	6 / 0.810	13 / 1.920	- / -	13 / 1.920	21 / 5.526	21 / 6.952	21 / 6.000	8 / 6.000	- / -	100 / 31.513	
1.1.4) AN/SPN-46 Obsolescence - NonOrganic	- / -	- / -	3 / 0.950	3 / 0.989	- / -	3 / 0.989	8 / 4.897	41 / 17.417	12 / 7.840	12 / 7.981	- / -	79 / 40.074	
1.1.5) AN/SPN-46 RAM Pole - NonOrganic	9 / 0.421	2 / 0.070	1 / 0.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.526	
1.1.6) AN/SPN-46 Unit 13 MCG - NonOrganic	12 / 0.312	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.312	
1.1.7) AN/SPN-41 TILS System Integration (LCE) - NonOrganic	1 / 0.503	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.503	
1.1.8) AN/SPN-35 Shock Mod - NonOrganic	11 / 1.597	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 1.597	
1.1.9) AN/SPN-35 Antenna Stabilization - NonOrganic	15 / 0.711	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 0.711	
1.1.10) AN/SPN-35 UPS Mod - NonOrganic	10 / 0.424	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.424	
1.1.11) AN/SPN-35 Fiber Optic Mod - NonOrganic	7 / 0.081	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.081	
1.1.12) AN/SPN-35 ACD Mod - NonOrganic	5 / 0.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.003	
1.1.13) AN/SPN-35 XMTR Assembly - NonOrganic	4 / 0.819	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.819	
1.1.14) AN/SPN-35 Receiver Transmitter Mod - NonOrganic	- / -	2 / 0.028	4 / 0.056	5 / 0.070	- / -	5 / 0.070	- / -	- / -	- / -	- / -	- / -	11 / 0.154	
1.1.15) AN/SPN-46 Radar Control Group Backfit (LCE) - NonOrganic	1 / 0.205	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.205	
1.1.16) AN/SPN-46 Block Upgrade - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.200	14 / 15.700	10 / 9.400	Continuing	Continuing	
Subtotal: Non-Recurring	- / 7.289	- / 4.403	- / 1.851	- / 2.979	- / -	- / 2.979	- / 10.423	- / 27.569	- / 29.540	- / 23.381	Continuing	Continuing	
Subtotal: ACLS MOD KITS SUMMARY PN408	143 / 7.289	14 / 4.403	14 / 1.851	21 / 2.979	- / -	21 / 2.979	29 / 10.423	64 / 27.569	47 / 29.540	30 / 23.381	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 7.289	- / 4.403	- / 1.851	- / 2.979	- / -	- / 2.979	- / 10.423	- / 27.569	- / 29.540	- / 23.381	Continuing	Continuing	
Support (All Modification Items)													
2.1) Engineering Changes to Correct Deficiencies ECO SPN-46	- / 4.474	- / 0.508	- / 0.453	- / 1.708	- / -	- / 1.708	- / 1.855	- / 1.226	- / 1.208	- / 2.026	Continuing	Continuing	
2.2) Engineering Changes to Correct Deficiencies ECO SPN-35	- / -	- / -	- / -	- / 1.200	- / -	- / 1.200	- / 1.802	- / 1.223	- / 0.543	- / 6.614	Continuing	Continuing	
2.3) Integrated Logistics Support	- / 2.936	- / 0.550	- / 0.576	- / 0.750	- / -	- / 0.750	- / 0.950	- / 0.955	- / 0.700	- / 0.845	Continuing	Continuing	
2.4) Production Engineering ⁽²⁾	- / 11.219	- / 0.700	- / 0.705	- / 2.080	- / -	- / 2.080	- / 2.026	- / 1.754	- / 1.769	- / 1.800	Continuing	Continuing	
2.5) Quality Assurance	- / 0.472	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.102	- / 0.104	- / 0.106	- / 0.108	Continuing	Continuing	
2.6) Acceptance, Test and Evaluation	- / 0.211	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.211	- / 0.422	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System				Modification Number / Title: 1 / ACLS MOD KITS SUMMARY PN408				
Models of Systems Affected: CVN's L-class, selected shore sites				Modification Type: Modernization				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Subtotal: Support	- / 19.312	- / 1.858	- / 1.834	- / 5.838	- / -	- / 5.838	- / 6.735	- / 5.262	- / 4.326	- / 11.393	Continuing	Continuing
Installation												
Modification Item 1 of 1: ACLS MOD KITS SUMMARY PN408	- / 4.175	- / 0.035	- / 0.562	- / 1.187	- / -	- / 1.187	- / 1.928	- / 2.353	- / 7.013	- / 6.961	- / 6.745	- / 30.959
Subtotal: Installation	- / 4.175	- / 0.035	- / 0.562	- / 1.187	- / -	- / 1.187	- / 1.928	- / 2.353	- / 7.013	- / 6.961	- / 6.745	- / 30.959
Total												
Total Cost (Procurement + Support + Installation)	30.776	6.296	4.247	10.004	-	10.004	19.086	35.184	40.879	41.735	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9		P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System			Modification Number / Title: 1 / ACLS MOD KITS SUMMARY PN408

Modification Item 1 of 1: ACLS MOD KITS SUMMARY PN408

Manufacturer Information							
Manufacturer Name: NAWCAD ⁽³⁾				Manufacturer Location: Patuxent River, MD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Dec 2014	Dec 2015	Dec 2016				

Installation Information												
Method of Implementation: AIT Alteration Installation Team:: Installation Name: ACLS MOD KITS												
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	141 / 4.175	2 / 0.035	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 4.210
FY 2014	- / -	- / -	14 / 0.562	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.562
FY 2015	- / -	- / -	- / -	14 / 1.187	- / -	14 / 1.187	- / -	- / -	- / -	- / -	- / -	14 / 1.187
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	21 / 1.928	- / -	- / -	- / -	- / -	21 / 1.928
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 2.353	- / -	- / -	- / -	29 / 2.353
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	64 / 7.013	- / -	- / -	64 / 7.013
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	47 / 6.961	- / -	47 / 6.961
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 6.745	30 / 6.745
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	141 / 4.175	2 / 0.035	14 / 0.562	14 / 1.187	- / -	14 / 1.187	21 / 1.928	29 / 2.353	64 / 7.013	47 / 6.961	30 / 6.745	362 / 30.959

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	141	-	-	2	-	-	5	9	-	-	-	14	-	-	7	12	2	-	6	14	9	-	24	27	13	-	15	22	10	30	362
Out	141	-	-	2	-	-	5	9	-	-	-	14	-	-	7	12	2	-	6	14	9	-	24	27	13	-	15	22	10	30	362

Footnotes:

- ⁽¹⁾ The variance in Install Costs from year to year is due to the makeup of the different equipment being installed each year and the hulls where the installs are happening are different. The location of the different installs and projected Design Services Allocation (DSA) costs associated with each install also factor in the increase.
- ⁽²⁾ Several SPN-46 subassemblies are rapidly becoming unsustainable due primarily to component obsolescence. Increased production engineering will be required in support of future, approved ECP efforts to mitigate these issues and keep the SPN-46 viable to support Warfighter ACLS operations.
- ⁽³⁾ Contract and delivery dates are various.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System					Modification Number / Title: 2 / AN/SPN-46 (V) 3 EGI PN411			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5.775	0.380	0.200	-	-	-	-	-	-	-	0.712	7.067
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	5.775	0.380	0.200	-	-	-	-	-	-	-	0.712	7.067
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5.775	0.380	0.200	-	-	-	-	-	-	-	0.712	7.067
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The equipment and installation costs on this P-3a are for individual modification programs. This modification is part of the AN/SPN-46(V)3 Life Cycle Extension program. The ASN/139 Carrier Aircraft Inertial Navigation System (CAINS) units used by the AN/SPN-46 (V) as ships motion sensors (P/O Units 17/18) are nearing the end of their service life and are being replaced in the fleet by the ASN/172 Embedded GPS and Inertial Navigation System (EGI). The CAINS units require periodic updates of latitude and longitude that the AN/SPN-46 obtains from GPS receivers in unit 17/18. The EGI ECP will provide supportable sensors for the AN/SPN-46 (V) until the 2020 time frame and allow for the elimination of the GPS receivers in units 17 and 18. The inventory objective for this item is thirteen, of which twelve are OPN-funded and one SCN-funded. PMA-213 configuration control board approves inventory objectives.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System				Modification Number / Title: 2 / AN/SPN-46 (V) 3 EGI PN411					
Models of Systems Affected: CVNs, L-class, selected shore sites				Modification Type: Reliability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/SPN-46 (V) 3 EGI PN411													
B Kits													
Recurring													
2.1.1) AN/SPN-46(V)3 EGI (LCE) PN411 - NonOrganic	9 / 1.566	1 / 0.255	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.380	12 / 2.201	
Subtotal: Recurring	- / 1.566	- / 0.255	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.380	- / 2.201	
Subtotal: AN/SPN-46 (V) 3 EGI PN411	9 / 1.566	1 / 0.255	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.380	12 / 2.201	
Subtotal: Procurement, All Modification Items	- / 1.566	- / 0.255	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.380	- / 2.201	
Support (All Modification Items)													
3.1) Integrated Logistics Support ⁽⁴⁾	- / 0.779	- / 0.015	- / 0.015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.809	
3.2) Production Engineering ⁽⁵⁾	- / 1.928	- / 0.100	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.078	
3.3) Quality Assurance	- / 0.052	- / 0.010	- / 0.015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.077	
3.4) Initial Training	- / 0.107	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.107	
3.5) Acceptance Test & Evaluation	- / 0.321	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.321	
Subtotal: Support	- / 3.187	- / 0.125	- / 0.080	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.392	
Installation													
Modification Item 1 of 1: AN/SPN-46 (V) 3 EGI PN411	- / 1.022	- / -	- / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.332	- / 1.474	
Subtotal: Installation	- / 1.022	- / -	- / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.332	- / 1.474	
Total													
Total Cost (Procurement + Support + Installation)	5.775	0.380	0.200	-	-	-	-	-	-	-	0.712	7.067	

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9		P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System			Modification Number / Title: 2 / AN/SPN-46 (V) 3 EGI PN411

Modification Item 1 of 1: AN/SPN-46 (V) 3 EGI PN411

Manufacturer Information							
Manufacturer Name: NAWCAD				Manufacturer Location: Patuxent River, MD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013						
Delivery Dates	Dec 2014						

Installation Information

Method of Implementation: Alteration Installation Team (AIT):: Installation Name: AN/SPN-46(V)3 EGI (LCE) PN411

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	9 / 1.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.022
FY 2014	- / -	- / -	1 / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.120
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.332	2 / 0.332
Total	9 / 1.022	- / -	1 / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.332	12 / 1.474

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	9	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	12	
Out	9	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	12	

Footnotes:

(4) FY15 Integrated Logistics Support costs are required for the install occurring in that year.

(5) FY15 Production Engineering support cost are required for the install occurring in that year.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 3 / AN/SPN-46 (V)3 Computer Group (LCE) PN412

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	5.195	-	0.525	-	-	-	-	-	-	-	-	5.720
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	5.195	-	0.525	-	-	-	-	-	-	-	-	5.720
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	5.195	-	0.525	-	-	-	-	-	-	-	-	5.720
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The equipment and installation costs on this P-3a are for individual modification programs. This modification is part of the AN/SPN-46(V)3 Life Cycle Extension program. In response to the increasingly difficult-to-maintain and antiquated CMS 2 software language and to preclude any degradation to the functionality of AN/SPN-46(V)3 in the Fleet by 2010, the CMS2 software language will be converted to mature, higher order language (HOL) C. This effort will leverage the new Radar Control Group (RCG) open architecture by re-hosting the HOL C software on a new Versa Module Eurocard (VME) circuit card that will reside in the Unit 19 VME chassis. The obsolete AN/AYK-14 computers, which currently reside in units 17 and 18, will be eliminated, providing additional space for Maintenance Assistance Modules (MAMs) storage. The inventory objective for this item is thirteen, of which ten are OPN-funded, two are RDT&E and one SCN-funded. PMA-213 configuration control board approves inventory objectives.

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9					P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System					Modification Number / Title: 3 / AN/SPN-46 (V)3 Computer Group (LCE) PN412			
Models of Systems Affected: CVNs, L-class, selected shore sites					Modification Type: Reliability					Related RDT&E PEs:			
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
Procurement													
<i>Modification Item 1 of 1:</i> AN/SPN-46 (V)3 Computer Group (LCE) PN412													
B Kits													
Recurring													
2.1.1) AN/SPN-46 Computer Group - NonOrganic	10 / 2.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.031
<i>Subtotal: Recurring</i>	- / 2.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.031
<i>Subtotal: AN/SPN-46 (V)3 Computer Group (LCE) PN412</i>	10 / 2.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.031
<i>Subtotal: Procurement, All Modification Items</i>	- / 2.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.031
Support (All Modification Items)													
3.1) Integrated Logistic Support ⁽⁶⁾	- / 0.326	- / -	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.331
3.2) Production Engineering ⁽⁷⁾	- / 0.733	- / -	- / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.753
3.3) Quality Assurance	- / 0.027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.027
3.4) Initial Training	- / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.045
<i>Subtotal: Support</i>	- / 1.131	- / -	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.156
Installation													
<i>Modification Item 1 of 1:</i> AN/SPN-46 (V)3 Computer Group (LCE) PN412	- / 2.033	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.533
<i>Subtotal: Installation</i>	- / 2.033	- / -	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.533
Total													
Total Cost (Procurement + Support + Installation)	5.195	-	0.525	-	-	-	-	-	-	-	-	-	5.720

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 3 / AN/SPN-46 (V)3 Computer Group (LCE) PN412

Modification Item 1 of 1: AN/SPN-46 (V)3 Computer Group (LCE) PN412

Manufacturer Information							
Manufacturer Name: NAWCAD				Manufacturer Location: Patuxent River, MD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Alteration Installation Team (AIT):: Installation Name: AN/SPN-46 Computer Group

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	8 / 2.033	- / -	2 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.533
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	8 / 2.033	- / -	2 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.533

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	8	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Out	8	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10

Footnotes:

(6) The remaining support activities are necessary to adapt the installations to the specific requirements of each ship. This includes site unique installation drawings which are generated with the input and support of the system Subject Matter Experts.

(7) The remaining support activities are necessary to adapt the installations to the specific requirements of each ship. This includes site unique installation drawings which are generated with the input and support of the system Subject Matter Experts.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 4 / AN/SPN-46 (V)3 Radar Set Group PN413

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	10.291	4.049	4.558	6.314	-	6.314	1.538	-	-	-	-	26.750
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	10.291	4.049	4.558	6.314	-	6.314	1.538	-	-	-	-	26.750
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	10.291	4.049	4.558	6.314	-	6.314	1.538	-	-	-	-	26.750
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The equipment and installation costs on this P-3a are for individual modification programs. This modification is part of the AN/SPN-46(V)3 Life Cycle Extension program. The current AN/SPN-46 (V) 3 receiver houses both Ka and X-band components that are densely packaged. Maintenance on these units is difficult with a high probability of damaging components because of this dense packaging. Some of the RF components are 1960s technology and are no longer manufactured. The Radar Set Group re-packages the RF components using more modern and smaller components thus making the unit much easier to maintain and support. The inventory objective for this item is thirteen, of which eleven are OPN-funded and two SCN-funded. PMA-213 configuration control board approves inventory objectives.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System					Modification Number / Title: 4 / AN/SPN-46 (V)3 Radar Set Group PN413				
Models of Systems Affected: CVNs and selected shore sites				Modification Type: Reliability					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/SPN-46 (V)3 Radar Set Group PN413													
B Kits													
Recurring													
2.1.1) AN/SPN-46 (V)3 Radar Set Group PN413 - NonOrganic ⁽⁸⁾	2 / 6.160	2 / 2.280	3 / 3.420	4 / 4.560	- / -	4 / 4.560	- / -	- / -	- / -	- / -	- / -	11 / 16.420	
Subtotal: Recurring	- / 6.160	- / 2.280	- / 3.420	- / 4.560	- / -	- / 4.560	- / -	- / -	- / -	- / -	- / -	- / 16.420	
Subtotal: AN/SPN-46 (V)3 Radar Set Group PN413	2 / 6.160	2 / 2.280	3 / 3.420	4 / 4.560	- / -	4 / 4.560	- / -	- / -	- / -	- / -	- / -	11 / 16.420	
Subtotal: Procurement, All Modification Items	- / 6.160	- / 2.280	- / 3.420	- / 4.560	- / -	- / 4.560	- / -	- / -	- / -	- / -	- / -	- / 16.420	
Support (All Modification Items)													
3.1) Integrated Logistic Support	- / 0.404	- / 0.022	- / 0.086	- / 0.095	- / -	- / 0.095	- / 0.100	- / -	- / -	- / -	- / -	- / 0.707	
3.2) Production Engineering	- / 3.043	- / 0.413	- / 0.429	- / 0.773	- / -	- / 0.773	- / 0.548	- / -	- / -	- / -	- / -	- / 5.206	
3.3) Acceptance Test & Evaluation	- / 0.325	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.325	
3.4) Quality Assurance	- / 0.071	- / 0.012	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.083	
3.5) Initial Training	- / 0.080	- / 0.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.105	
Subtotal: Support	- / 3.923	- / 0.472	- / 0.515	- / 0.868	- / -	- / 0.868	- / 0.648	- / -	- / -	- / -	- / -	- / 6.426	
Installation													
Modification Item 1 of 1: AN/SPN-46 (V)3 Radar Set Group PN413	- / 0.208	- / 1.297	- / 0.623	- / 0.886	- / -	- / 0.886	- / 0.890	- / -	- / -	- / -	- / -	- / 3.904	
Subtotal: Installation	- / 0.208	- / 1.297	- / 0.623	- / 0.886	- / -	- / 0.886	- / 0.890	- / -	- / -	- / -	- / -	- / 3.904	
Total													
Total Cost (Procurement + Support + Installation)	10.291	4.049	4.558	6.314	-	6.314	1.538	-	-	-	-	26.750	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 4 / AN/SPN-46 (V)3 Radar Set Group PN413

Modification Item 1 of 1: AN/SPN-46 (V)3 Radar Set Group PN413

Manufacturer Information

Manufacturer Name: NAWCAD	Manufacturer Location: Patuxent River, MD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Dec 2014	Dec 2015	Dec 2016				

Installation Information

Method of Implementation: Alteration Installation Team (AIT):: Installation Name: AN/SPN-46 (V)3 Radar Set Group PN413

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.208	1 / 0.652	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.860
FY 2014	- / -	- / 0.645	2 / 0.623	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.268
FY 2015	- / -	- / -	- / -	3 / 0.886	- / -	3 / 0.886	- / -	- / -	- / -	- / -	- / -	3 / 0.886
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.890	- / -	- / -	- / -	- / -	4 / 0.890
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.208	1 / 1.297	2 / 0.623	3 / 0.886	- / -	3 / 0.886	4 / 0.890	- / -	- / -	- / -	- / -	11 / 3.904

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	1	-	-	-	2	-	-	-	2	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
Out	1	-	-	1	-	-	-	2	-	-	-	2	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11

Footnotes:

⁽⁸⁾ Advance planning costs in FY14 have to occur prior to actual installs and show as quantity zero. Due to the length of time required and the fluctuating ship availability schedules some procurements and installations have not been firmly rescheduled at this time.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 5 / AN/SPN-46 (V)3 Peripheral Display (LCE) PN414

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	5.124	0.922	0.220	0.400	-	0.400	-	-	-	-	0.924	7.590
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	5.124	0.922	0.220	0.400	-	0.400	-	-	-	-	0.924	7.590
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	5.124	0.922	0.220	0.400	-	0.400	-	-	-	-	0.924	7.590
(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 equipment and installation costs on this P-3a are for individual modification programs. This modification is part of the AN/SPN-46(V)3 Life Cycle Extension program. The peripheral upgrade ECP replaces the fixed format displays with programmable displays eliminating the Standard Electronic Module (SEM) and providing total flexibility in format and content of displayed data. The inventory objective for this item is fifteen, of which thirteen are OPN-funded and two SCN-funded. PMA-213 configuration control board approves inventory objectives.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System					Modification Number / Title: 5 / AN/SPN-46 (V)3 Peripheral Display (LCE) PN414				
Models of Systems Affected: CVNs and selected shore sites				Modification Type: Reliability					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/SPN-46 (V)3 Peripheral Display (LCE) PN414													
B Kits													
Recurring													
2.1.1) AN/SPN-46(V)3 Peripheral Display (LCE) - NonOrganic ⁽⁹⁾	8 / 1.273	3 / 0.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.336	13 / 2.057	
Subtotal: Recurring	- / 1.273	- / 0.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.336	- / 2.057	
Subtotal: AN/SPN-46 (V)3 Peripheral Display (LCE) PN414	8 / 1.273	3 / 0.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.336	13 / 2.057	
Subtotal: Procurement, All Modification Items	- / 1.273	- / 0.448	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.336	- / 2.057	
Support (All Modification Items)													
3.1) Integrated Logistic Support	- / 0.382	- / 0.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.392	
3.2) Production Engineering	- / 2.296	- / 0.134	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.430	
3.3) Quality Assurance	- / 0.051	- / 0.006	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.057	
3.4) Initial Training	- / 0.095	- / 0.030	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.125	
Subtotal: Support	- / 2.824	- / 0.180	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.004	
Installation													
Modification Item 1 of 1: AN/SPN-46 (V)3 Peripheral Display (LCE) PN414	- / 1.027	- / 0.294	- / 0.220	- / 0.400	- / -	- / 0.400	- / -	- / -	- / -	- / -	- / 0.588	- / 2.529	
Subtotal: Installation	- / 1.027	- / 0.294	- / 0.220	- / 0.400	- / -	- / 0.400	- / -	- / -	- / -	- / -	- / 0.588	- / 2.529	
Total													
Total Cost (Procurement + Support + Installation)	5.124	0.922	0.220	0.400	-	0.400	-	-	-	-	0.924	7.590	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 5 / AN/SPN-46 (V)3 Peripheral Display (LCE) PN414

Modification Item 1 of 1: AN/SPN-46 (V)3 Peripheral Display (LCE) PN414

Manufacturer Information							
Manufacturer Name: NAWCAD ⁽¹⁰⁾				Manufacturer Location: Patuxent River, MD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013						
Delivery Dates	Dec 2014						

Installation Information

Method of Implementation: Alteration Installation Team (AIT):: Installation Name: AN/SPN-46(V)3 Peripheral Display (LCE)

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 1.027	1 / 0.294	- / -	3 / 0.400	- / 0.000	3 / 0.400	- / -	- / -	- / -	- / -	- / -	8 / 1.721
FY 2014	- / -	- / -	3 / 0.220	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.220
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.588	2 / 0.588
Total	4 / 1.027	1 / 0.294	3 / 0.220	3 / 0.400	- / -	3 / 0.400	- / -	- / -	- / -	- / -	2 / 0.588	13 / 2.529

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	4	-	-	1	-	-	-	3	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	13	
Out	4	-	-	1	-	-	-	3	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	13	

Footnotes:

⁽⁹⁾ N98 Sponsor authorized additional (2) units which are in To-Complete.

⁽¹⁰⁾ Installation costs vary widely between Fiscal Years based upon ship class and location of installation.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System					Modification Number / Title: 6 / AN/SPN-46 Common Console(V)3 LCE PN415			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	11.336	0.735	0.520	-	-	-	-	-	-	-	-	12.591
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	11.336	0.735	0.520	-	-	-	-	-	-	-	-	12.591
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	11.336	0.735	0.520	-	-	-	-	-	-	-	-	12.591
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The equipment and installation costs on this P-3a are for individual modification programs. This modification is part of the AN/SPN-46(V)3 Life Cycle Extension program. The console replacements for one maintenance and two operator AN/SPN-46(V)3 consoles will have the same functionality and capability as the existing fielded consoles. Current consoles are the number two top readiness system degraders and consistently appear in the top 10 Commander Naval Air Pacific (CNAP) Casualty Report (CASREP) List. The replacement consoles, a variant of the OD-22/TPX-42(V) Field Change 3 (FC3) console, readily support HOL C and CMS 2 languages. This ensures that replacement consoles are available for ships that require the console upgrade, before the CMS 2 to C Software upgrade is available for installation. AIR 4.5.8 and AIR 4.5.9 formed a Working Integrated Product Team (WIPT) to ensure open communication and a smooth flow of information during Console Replacement ECP execution. The inventory objective for this item is twelve, of which eleven are OPN-funded and one SCN-funded. PMA-213 configuration control board approves inventory objectives.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System				Modification Number / Title: 6 / AN/SPN-46 Common Console(V)3 LCE PN415					
Models of Systems Affected: CVNs and selected shore sites				Modification Type: Reliability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/SPN-46 Common Console(V)3 LCE PN415													
B Kits													
Recurring													
2.1.1) AN/SPN-46(V)3 Common Console (LCE) PN415 - NonOrganic ⁽¹¹⁾		10 / 6.209	1 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 6.709	
Subtotal: Recurring		- / 6.209	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.709	
Subtotal: AN/SPN-46 Common Console(V)3 LCE PN415		10 / 6.209	1 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 6.709	
Subtotal: Procurement, All Modification Items		- / 6.209	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.709	
Support (All Modification Items)													
3.1) Integrated Logistic Support		- / 0.421	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.421	
3.2) Production Engineering		- / 1.013	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.063	
3.3) Quality Assurance		- / 0.074	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.079	
3.4) Initial Training		- / 0.091	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.091	
Subtotal: Support		- / 1.599	- / 0.055	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.654	
Installation													
Modification Item 1 of 1: AN/SPN-46 Common Console(V)3 LCE PN415		- / 3.528	- / 0.180	- / 0.520	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.228	
Subtotal: Installation		- / 3.528	- / 0.180	- / 0.520	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.228	
Total													
Total Cost (Procurement + Support + Installation)		11.336	0.735	0.520	-	-	-	-	-	-	-	12.591	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 6 / AN/SPN-46 Common Console(V)3 LCE PN415

Modification Item 1 of 1: AN/SPN-46 Common Console(V)3 LCE PN415

Manufacturer Information

Manufacturer Name: NAWCAD				Manufacturer Location: Patuxent River, MD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013						
Delivery Dates	Dec 2014						

Installation Information

Method of Implementation: Alteration Installation Team (AIT):: Installation Name: AN/SPN-46(V)3 Common Console (LCE) PN415

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 3.528	1 / 0.180	2 / 0.350	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 4.058
FY 2014	- / -	- / -	1 / 0.170	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.170
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 3.528	1 / 0.180	3 / 0.520	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 4.228

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	-	-	1	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	
Out	7	-	-	1	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	

Footnotes:

⁽¹¹⁾ N98 sponsor approved for (1) additional unit. The program will install the unit in FY2015.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 7 / AN/SPN-41 Transmitter MOD (LCE) PN416

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	2.431	1.443	1.503	0.405	-	0.405	1.141	0.080	-	-	-	7.003
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	2.431	1.443	1.503	0.405	-	0.405	1.141	0.080	-	-	-	7.003
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	2.431	1.443	1.503	0.405	-	0.405	1.141	0.080	-	-	-	7.003
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AN/SPN-41 Transmitter MOD (LCE) PN416. The equipment and installation costs on this P-3a are for individual modification programs though it must be installed in conjunction with ECP SPN41-030 and SPN41-034 in order to be fully functional as part of the AN/SPN-41/41A Life Cycle Extension (LCE) program. The existing transmitter is an older technology two-channel SCR line type modulator that is experiencing serious maintainability and obsolescence issues. The transmitter is the number one cost driver and system performance degrader. This change will improve logistic supportability and system maintainability. Lowest Repairable Units (LRUs) CCAs and Built-In Test (BIT) capabilities (LCE only) will be added to transmitter thus reducing cost for shipboard repairs and maintenance.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System				Modification Number / Title: 7 / AN/SPN-41 Transmitter MOD (LCE) PN416					
Models of Systems Affected: CVN's L-Class, selected shore sites				Modification Type: Modernization				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/SPN-41 Transmitter MOD (LCE) PN416													
B Kits													
Recurring													
2.1.1) AN/SPN-41 Transmitter Replacement (LCE) - NonOrganic	4 / 0.956	5 / 1.199	5 / 1.200	1 / 0.240	- / -	1 / 0.240	4 / 0.979	- / -	- / -	- / -	- / -	19 / 4.574	
Subtotal: Recurring	- / 0.956	- / 1.199	- / 1.200	- / 0.240	- / -	- / 0.240	- / 0.979	- / -	- / -	- / -	- / -	- / 4.574	
Subtotal: AN/SPN-41 Transmitter MOD (LCE) PN416	4 / 0.956	5 / 1.199	5 / 1.200	1 / 0.240	- / -	1 / 0.240	4 / 0.979	- / -	- / -	- / -	- / -	19 / 4.574	
Subtotal: Procurement, All Modification Items	- / 0.956	- / 1.199	- / 1.200	- / 0.240	- / -	- / 0.240	- / 0.979	- / -	- / -	- / -	- / -	- / 4.574	
Support (All Modification Items)													
3.1) Integrated Logistics	- / 0.218	- / 0.041	- / 0.046	- / 0.050	- / -	- / 0.050	- / 0.064	- / -	- / -	- / -	- / -	- / 0.419	
3.2) Production Engineering	- / 1.220	- / 0.083	- / 0.092	- / 0.040	- / -	- / 0.040	- / 0.078	- / -	- / -	- / -	- / -	- / 1.513	
Subtotal: Support	- / 1.438	- / 0.124	- / 0.138	- / 0.090	- / -	- / 0.090	- / 0.142	- / -	- / -	- / -	- / -	- / 1.932	
Installation													
Modification Item 1 of 1: AN/SPN-41 Transmitter MOD (LCE) PN416	- / 0.037	- / 0.120	- / 0.165	- / 0.075	- / -	- / 0.075	- / 0.020	- / 0.080	- / -	- / -	- / -	- / 0.497	
Subtotal: Installation	- / 0.037	- / 0.120	- / 0.165	- / 0.075	- / -	- / 0.075	- / 0.020	- / 0.080	- / -	- / -	- / -	- / 0.497	
Total													
Total Cost (Procurement + Support + Installation)	2.431	1.443	1.503	0.405	-	0.405	1.141	0.080	-	-	-	7.003	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 7 / AN/SPN-41 Transmitter MOD (LCE) PN416

Modification Item 1 of 1: AN/SPN-41 Transmitter MOD (LCE) PN416

Manufacturer Information

Manufacturer Name: NAWCAD 4.5.8	Manufacturer Location: Webster Field, St. Inigoes, MD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Dec 2014	Dec 2015	Dec 2016				

Installation Information

Method of Implementation: AIT Alteration Team:: Installation Name: AN/SPN-41 Transmitter Replacement

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.037	2 / 0.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.157
FY 2014	- / -	- / -	5 / 0.165	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.165
FY 2015	- / -	- / -	- / -	5 / 0.075	- / -	5 / 0.075	- / -	- / -	- / -	- / -	- / -	5 / 0.075
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.020	- / -	- / -	- / -	- / -	1 / 0.020
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.080	- / -	- / -	- / -	4 / 0.080
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.037	2 / 0.120	5 / 0.165	5 / 0.075	- / -	5 / 0.075	1 / 0.020	4 / 0.080	- / -	- / -	- / -	19 / 0.497

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	-	-	2	-	-	-	5	-	-	-	5	-	-	-	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	19
Out	2	-	-	2	-	-	-	5	-	-	-	5	-	-	-	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	19

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 8 / AN/SPN-41 Coder Monitor (LCE) PN417

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	6.415	2.161	3.046	1.243	-	1.243	1.041	0.300	-	-	-	14.206
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	6.415	2.161	3.046	1.243	-	1.243	1.041	0.300	-	-	-	14.206
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	6.415	2.161	3.046	1.243	-	1.243	1.041	0.300	-	-	-	14.206
(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:

AN/SPN-41 Coder Monitor (LCE) PN417. The equipment and installation costs on this P-3a are for individual modification programs though it must be installed in conjunction with ECP SPN41-030 and SPN41-031 in order to be fully functional as part of the AN/SPN-41/41A Life Cycle Extension program. This change will provide upgrades to AN/SPN-41/41A to improve Operational Availability (Ao) by addressing numerous part obsolescence issues germane to the current aging system. The change will also provide digital interfaces with other shipboard systems including the Joint Precision Approach Landing System (JPALS), and extend the service life of the AN/SPN-41/41A.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System					Modification Number / Title: 8 / AN/SPN-41 Coder Monitor (LCE) PN417				
Models of Systems Affected: CVN's L-Class, selected shore sites				Modification Type: Modernization					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/SPN-41 Coder Monitor (LCE) PN417													
B Kits													
Recurring													
2.1.1) AN/SPN-41 Coder Monitor (LCE) - NonOrganic (12)	10 / 2.506	4 / 0.772	5 / 0.950	1 / 0.201	- / -	1 / 0.201	2 / 0.410	- / -	- / -	- / -	- / -	22 / 4.839	
Subtotal: Recurring	- / 2.506	- / 0.772	- / 0.950	- / 0.201	- / -	- / 0.201	- / 0.410	- / -	- / -	- / -	- / -	- / 4.839	
Subtotal: AN/SPN-41 Coder Monitor (LCE) PN417	10 / 2.506	4 / 0.772	5 / 0.950	1 / 0.201	- / -	1 / 0.201	2 / 0.410	- / -	- / -	- / -	- / -	22 / 4.839	
Subtotal: Procurement, All Modification Items	- / 2.506	- / 0.772	- / 0.950	- / 0.201	- / -	- / 0.201	- / 0.410	- / -	- / -	- / -	- / -	- / 4.839	
Support (All Modification Items)													
3.1) Integrated Logistic Support	- / 0.865	- / 0.113	- / 0.082	- / 0.097	- / -	- / 0.097	- / 0.105	- / -	- / -	- / -	- / -	- / 1.262	
3.2) Production Engineering	- / 2.249	- / 0.128	- / 0.232	- / 0.224	- / -	- / 0.224	- / 0.401	- / -	- / -	- / -	- / -	- / 3.234	
Subtotal: Support	- / 3.114	- / 0.241	- / 0.314	- / 0.321	- / -	- / 0.321	- / 0.506	- / -	- / -	- / -	- / -	- / 4.496	
Installation													
Modification Item 1 of 1: AN/SPN-41 Coder Monitor (LCE) PN417	- / 0.795	- / 1.148	- / 1.782	- / 0.721	- / -	- / 0.721	- / 0.125	- / 0.300	- / -	- / -	- / -	- / 4.871	
Subtotal: Installation	- / 0.795	- / 1.148	- / 1.782	- / 0.721	- / -	- / 0.721	- / 0.125	- / 0.300	- / -	- / -	- / -	- / 4.871	
Total													
Total Cost (Procurement + Support + Installation)	6.415	2.161	3.046	1.243	-	1.243	1.041	0.300	-	-	-	14.206	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 8 / AN/SPN-41 Coder Monitor (LCE) PN417

Modification Item 1 of 1: AN/SPN-41 Coder Monitor (LCE) PN417

Manufacturer Information

Manufacturer Name: NAWCAD 4.5.8	Manufacturer Location: Webster Field, St. Inigoes, MD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Dec 2014	Dec 2015	Dec 2016				

Installation Information

Method of Implementation: Alteration Installation Team AIT:: Installation Name: AN/SPN-41 Coder Monitor (LCE)

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 0.795	2 / 0.741	- / -	1 / 0.120	- / 0.000	1 / 0.120	- / -	- / -	- / -	- / -	- / -	10 / 1.656
FY 2014	- / -	- / 0.407	4 / 1.782	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.189
FY 2015	- / -	- / -	- / -	5 / 0.601	- / -	5 / 0.601	- / -	- / -	- / -	- / -	- / -	5 / 0.601
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.125	- / -	- / -	- / -	- / -	1 / 0.125
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.300	- / -	- / -	- / -	2 / 0.300
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 0.795	2 / 1.148	4 / 1.782	6 / 0.721	- / -	6 / 0.721	1 / 0.125	2 / 0.300	- / -	- / -	- / -	22 / 4.871

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	7	-	-	2	-	-	-	2	2	1	-	5	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	22
Out	7	-	-	2	-	-	-	2	2	1	-	5	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	22

Footnotes:

⁽¹²⁾ Location of planned installs and advanced planning costs associated with each installation account for the increased installation costs in FY 2015.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 9 / AN/SPN-41 Electronic Drawer Assembly (LCE) PN418

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	12.619	2.956	4.323	1.864	-	1.864	2.593	1.392	-	-	-	25.747
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	12.619	2.956	4.323	1.864	-	1.864	2.593	1.392	-	-	-	25.747
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	12.619	2.956	4.323	1.864	-	1.864	2.593	1.392	-	-	-	25.747
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AN/SPN-41 Electronic Drawer Assembly (LCE) PN418. The equipment and installation costs on this P-3a are for individual modification programs though it must be installed in conjunction with ECP SPN41-031 and SPN41-034 in order to be fully functional as part of the AN/SPN-41/41A Life Cycle Extension program. This change will provide upgrades to AN/SPN-41/41A to improve Operational Availability (Ao) by addressing numerous part obsolescence issues germane to the current aging system. The change will also provide digital interfaces with other shipboard systems including the Joint Precision Approach Landing System (JPALS), and extend the service life of the AN/SPN-41/41A.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System					Modification Number / Title: 9 / AN/SPN-41 Electronic Drawer Assembly (LCE) PN418				
Models of Systems Affected: CVNs, L-class, selected shore sites				Modification Type: Modernization					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/SPN-41 Electronic Drawer Assembly (LCE) PN418													
B Kits													
Recurring													
2.1.1) AN/SPN-41 Electronic Drawer Assembly (LCE) - NonOrganic	5 / 1.892	4 / 1.595	5 / 2.028	1 / 0.413	- / -	1 / 0.413	4 / 1.662	- / -	- / -	- / -	- / -	19 / 7.590	
Subtotal: Recurring	- / 1.892	- / 1.595	- / 2.028	- / 0.413	- / -	- / 0.413	- / 1.662	- / -	- / -	- / -	- / -	- / 7.590	
Subtotal: AN/SPN-41 Electronic Drawer Assembly (LCE) PN418	5 / 1.892	4 / 1.595	5 / 2.028	1 / 0.413	- / -	1 / 0.413	4 / 1.662	- / -	- / -	- / -	- / -	19 / 7.590	
Subtotal: Procurement, All Modification Items	- / 1.892	- / 1.595	- / 2.028	- / 0.413	- / -	- / 0.413	- / 1.662	- / -	- / -	- / -	- / -	- / 7.590	
Support (All Modification Items)													
3.1) Integrated Logistics	- / 1.425	- / 0.081	- / 0.081	- / 0.097	- / -	- / 0.097	- / 0.105	- / -	- / -	- / -	- / -	- / 1.789	
3.2) Production Engineering ⁽¹³⁾	- / 7.652	- / 0.599	- / 0.432	- / 0.753	- / -	- / 0.753	- / 0.388	- / -	- / -	- / -	- / -	- / 9.824	
Subtotal: Support	- / 9.077	- / 0.680	- / 0.513	- / 0.850	- / -	- / 0.850	- / 0.493	- / -	- / -	- / -	- / -	- / 11.613	
Installation													
Modification Item 1 of 1: AN/SPN-41 Electronic Drawer Assembly (LCE) PN418	- / 1.650	- / 0.681	- / 1.782	- / 0.601	- / -	- / 0.601	- / 0.438	- / 1.392	- / -	- / -	- / -	- / 6.544	
Subtotal: Installation	- / 1.650	- / 0.681	- / 1.782	- / 0.601	- / -	- / 0.601	- / 0.438	- / 1.392	- / -	- / -	- / -	- / 6.544	
Total													
Total Cost (Procurement + Support + Installation)	12.619	2.956	4.323	1.864	-	1.864	2.593	1.392	-	-	-	25.747	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9										P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System										Modification Number / Title: 9 / AN/SPN-41 Electronic Drawer Assembly (LCE) PN418											
Modification Item 1 of 1: AN/SPN-41 Electronic Drawer Assembly (LCE) PN418																															
Manufacturer Information																															
Manufacturer Name: NAWCAD 4.5.8 ⁽¹⁴⁾														Manufacturer Location: Webster Field, St. Inigoes, MD																	
Administrative Leadtime (in Months): 3														Production Leadtime (in Months): 12																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Dec 2013				Dec 2014				Dec 2015																					
Delivery Dates		Dec 2014				Dec 2015				Dec 2016																					
Installation Information																															
Method of Implementation: Alteration Installation Team AIT:: Installation Name: AN/SPN-41 Electronic Drawer Assembly (LCE)																															
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		3 / 1.650		2 / 0.681		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 2.331					
FY 2014		- / -		- / -		4 / 1.782		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 1.782					
FY 2015		- / -		- / -		- / -		5 / 0.601		- / -		5 / 0.601		- / -		- / -		- / -		- / -		- / -		- / -		5 / 0.601					
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		1 / 0.438		- / -		- / -		- / -		- / -		- / -		1 / 0.438					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 1.392		- / -		- / -		- / -		- / -		4 / 1.392					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		3 / 1.650		2 / 0.681		4 / 1.782		5 / 0.601		- / -		5 / 0.601		1 / 0.438		4 / 1.392		- / -		- / -		- / -		- / -		19 / 6.544					
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	3	-	-	2	-	-	-	-	4	-	-	-	3	2	-	-	1	-	-	-	4	-	-	-	-	-	-	-	-	-	19
Out	3	-	-	2	-	-	-	-	4	-	-	-	3	2	-	-	1	-	-	-	4	-	-	-	-	-	-	-	-	-	19
Footnotes: ⁽¹³⁾ FY16 Production Engineering costs are higher due to planning and preparation for the installation in Yokosuka, Japan. ⁽¹⁴⁾ The higher FY15 installation costs reflect more expensive ship locations (i.e. San Diego, CA or Japan versus Norfolk, VA)																															

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 10 / AN/SPN-41 Radome Hardware Upgrade (LCE) PN419

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	2.256	1.816	2.215	1.051	-	1.051	1.152	0.042	-	-	-	8.532
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	2.256	1.816	2.215	1.051	-	1.051	1.152	0.042	-	-	-	8.532
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	2.256	1.816	2.215	1.051	-	1.051	1.152	0.042	-	-	-	8.532
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AN/SPN-41 Radome Hardware Upgrade (LCE) PN419. The equipment and installation costs on this P-3a are for individual modification programs. This is part of the AN/SPN-41/41A Life Cycle Extension program. This change will improve overall AN/SPN-41/41A Operational Availability (Ao) by addressing extreme environmental issues currently being experienced by the systems in the field. This change increases overall thermal resistance while decreasing solar absorptivity thereby reducing the ambient operating temperature for the equipment inside the radome.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System				Modification Number / Title: 10 / AN/SPN-41 Radome Hardware Upgrade (LCE) PN419					
Models of Systems Affected: CVN's, L-Class, selected shore sites				Modification Type: Modernization				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/SPN-41 Radome Hardware Upgrade (LCE) PN419													
B Kits													
Recurring													
2.1.1) AN/SPN-41 Radome Hardware Upgrade - NonOrganic	2 / 0.673	5 / 1.490	6 / 1.788	2 / 0.596	- / -	2 / 0.596	2 / 0.596	- / -	- / -	- / -	- / -	17 / 5.143	
Subtotal: Recurring	- / 0.673	- / 1.490	- / 1.788	- / 0.596	- / -	- / 0.596	- / 0.596	- / -	- / -	- / -	- / -	- / 5.143	
Subtotal: AN/SPN-41 Radome Hardware Upgrade (LCE) PN419	2 / 0.673	5 / 1.490	6 / 1.788	2 / 0.596	- / -	2 / 0.596	2 / 0.596	- / -	- / -	- / -	- / -	17 / 5.143	
Subtotal: Procurement, All Modification Items	- / 0.673	- / 1.490	- / 1.788	- / 0.596	- / -	- / 0.596	- / 0.596	- / -	- / -	- / -	- / -	- / 5.143	
Support (All Modification Items)													
3.1) Production Engineering	- / 1.535	- / 0.104	- / 0.135	- / 0.170	- / -	- / 0.170	- / 0.271	- / -	- / -	- / -	- / -	- / 2.215	
Subtotal: Support	- / 1.535	- / 0.104	- / 0.135	- / 0.170	- / -	- / 0.170	- / 0.271	- / -	- / -	- / -	- / -	- / 2.215	
Installation													
Modification Item 1 of 1: AN/SPN-41 Radome Hardware Upgrade (LCE) PN419	- / 0.048	- / 0.222	- / 0.292	- / 0.285	- / -	- / 0.285	- / 0.285	- / 0.042	- / -	- / -	- / -	- / 1.174	
Subtotal: Installation	- / 0.048	- / 0.222	- / 0.292	- / 0.285	- / -	- / 0.285	- / 0.285	- / 0.042	- / -	- / -	- / -	- / 1.174	
Total													
Total Cost (Procurement + Support + Installation)	2.256	1.816	2.215	1.051	-	1.051	1.152	0.042	-	-	-	8.532	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2832 / Automatic Carrier Landing System	Modification Number / Title: 10 / AN/SPN-41 Radome Hardware Upgrade (LCE) PN419

Modification Item 1 of 1: AN/SPN-41 Radome Hardware Upgrade (LCE) PN419

Manufacturer Information							
Manufacturer Name: NAWCAD 4.5.8 ⁽¹⁵⁾				Manufacturer Location: Webster Field, St. Inigoes, MD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 7			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Jul 2014	Jul 2015	Jul 2016				

Installation Information

Method of Implementation: [none specified]:: Installation Name: AN/SPN-41 Radome Hardware Upgrade

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	0 / 0.048	2 / 0.111	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.159
FY 2014	- / -	2 / 0.111	3 / 0.292	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.403
FY 2015	- / -	- / -	- / -	6 / 0.285	- / -	6 / 0.285	- / -	- / -	- / -	- / -	- / -	6 / 0.285
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.285	- / -	- / -	- / -	- / -	2 / 0.285
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.042	- / -	- / -	- / -	2 / 0.042
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.048	4 / 0.222	3 / 0.292	6 / 0.285	- / -	6 / 0.285	2 / 0.285	2 / 0.042	- / -	- / -	- / -	17 / 1.174

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	2	2	3	-	-	-	2	3	1	-	1	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	17
Out	-	-	-	2	2	3	-	-	-	2	3	1	-	1	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	17

Footnotes:

⁽¹⁵⁾ FY15 install costs are higher than FY16 based on install location.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment							P-1 Line Item Number / Title: 2840 / National Air Space System					
ID Code (A=Service Ready, B=Not Service Ready) : A				Program Elements for Code B Items:				Other Related Program Elements:				
Line Item MDAP/MAIS Code: 537		Item MDAP/MAIS Code(s):										
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	313.655	16.870	26.639	25.621	-	25.621	27.718	30.117	30.553	31.195	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	313.655	16.870	26.639	25.621	-	25.621	27.718	30.117	30.553	31.195	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	313.655	16.870	26.639	25.621	-	25.621	27.718	30.117	30.553	31.195	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	0.451	2.228	3.323	-	3.323	3.599	3.423	2.190	2.234	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Joint DoD/Federal Aviation Administration (FAA) National Airspace System (NAS) Modernization (MOD) program upgrades the DoD Air Traffic Control (ATC) systems at Approach Control Facilities in concert with the FAA's upgrade of the National ATC System. These funds will procure ATC systems for the Navy/Marine ATC facilities. The Air Force is the DoD lead activity for the Joint Acquisition Program. The Joint Program Office is located at Hanscom AFB, MA. The NAS Mod program received a full rate production decision on 7 June 2005 and is in the production and deployment phase following Milestone C. *Prior years total includes funding associated with cost elements no longer funded by this program.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment				P-1 Line Item Number / Title: 2840 / National Air Space System			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:		Other Related Program Elements:		
Line Item MDAP/MAIS Code: 537		Item MDAP/MAIS Code(s):					

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / CB010 - DoD Advanced Automation System (DAAS) (Added Capability)	P-3a		- / 114.329	- / 6.474	- / 3.491	- / 4.118	- / -	- / 4.118
2 / CB-030 Digital Airport Surveillance Radar (DASR) (Added Capability)	P-3a		- / 146.677	- / 4.263	- / 2.030	- / 2.125	- / -	- / 2.125
3 / CB040 Tower Automation System (TAS) (Added Capability)	P-3a		- / 52.649	- / 3.458	- / 3.742	- / 1.700	- / -	- / 1.700
4 / CB050 STARS TECH Refresh Upgrade (AIT)	P-3a		- / 0.000	- / 1.997	- / 10.806	- / 8.399	- / -	- / 8.399
5 / CB060 DASR Tech Refresh Upgrade (Added Capability)	P-3a		- / 0.000	- / 0.628	- / 1.163	- / 1.186	- / -	- / 1.186
6 / CB070 TAS Tech Refresh (Added Capability)	P-3a		- / 0.000	- / 0.050	- / 1.649	- / 4.200	- / -	- / 4.200
7 / CB080 NAS Voice System (NVS) (Added Capability)	P-3a		- / 0.000	- / -	- / 3.758	- / 3.893	- / -	- / 3.893
Total Gross/Weapon System Cost			- / 313.655	- / 16.870	- / 26.639	- / 25.621	- / -	- / 25.621

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / CB010 - DoD Advanced Automation System (DAAS) (Added Capability)	P-3a		- / 4.974	- / 4.159	- / 1.283	- / -	- / -	- / 138.828
2 / CB-030 Digital Airport Surveillance Radar (DASR) (Added Capability)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 155.095
3 / CB040 Tower Automation System (TAS) (Added Capability)	P-3a		- / 0.200	- / 0.200	- / 0.200	- / 0.180	- / -	- / 62.329
4 / CB050 STARS TECH Refresh Upgrade (AIT)	P-3a		- / 11.360	- / 13.853	- / 17.702	- / 18.390	Continuing	Continuing
5 / CB060 DASR Tech Refresh Upgrade (Added Capability)	P-3a		- / 0.999	- / 1.502	- / 1.770	- / 1.162	Continuing	Continuing
6 / CB070 TAS Tech Refresh (Added Capability)	P-3a		- / 3.835	- / 2.938	- / 2.897	- / 2.773	- / 1.034	- / 19.376
7 / CB080 NAS Voice System (NVS) (Added Capability)	P-3a		- / 6.350	- / 7.465	- / 6.701	- / 8.690	Continuing	Continuing
Total Gross/Weapon System Cost			- / 27.718	- / 30.117	- / 30.553	- / 31.195	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 add due to rounding.

Justification:
The FY 2016 funding request was reduced by \$0.6 million to account for the availability of prior year execution balances.

The Federal Aviation Administration (FAA) began the Next Generation Air Transportation System initiative in FY08. A major component of this capability is Automatic Dependent Surveillance Broadcast, which will provide aircraft position information to augment ground-based radar. Existing DoD Air Traffic Control (ATC) facilities interface with FAA's facilities, therefore the military must maintain interoperability and retain vital special-use airspace for combat readiness training. The DoD Advanced Automation System (DAAS) must be upgraded to meet this requirement.

FY2016 provides funding to procure 1 DAAS; 4 STARS Tech Refresh; 16 TAS Tech Refresh; and 334 NAS Voice System Radios, and associated support.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2840 / National Air Space System	Modification Number / Title: 1 / CB010 - DoD Advanced Automation System (DAAS)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	114.329	6.474	3.491	4.118	-	4.118	4.974	4.159	1.283	-	-	138.828
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	114.329	6.474	3.491	4.118	-	4.118	4.974	4.159	1.283	-	-	138.828
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	114.329	6.474	3.491	4.118	-	4.118	4.974	4.159	1.283	-	-	138.828
(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 DoD Advanced Automation System (DAAS) is being developed as part of a joint DoD/Federal Aviation Administration (FAA) program to modernize and standardize Air Traffic Control (ATC) equipment in the National Airspace System. The systems are installed in Navy ATC facilities to replace aging, obsolete equipment and comply with joint DoD/FAA modernization program agreements. DAAS provides for processors and displays for tower and approach controls. Inventory objective of 47.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2840 / National Air Space System				Modification Number / Title: 1 / CB010 - DoD Advanced Automation System (DAAS)					
Models of Systems Affected: NAS				Modification Type: Added Capability				Related RDT&E PEs: 0604504N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: CB010 - DoD Advanced Automation System (DAAS)													
B Kits													
Recurring													
2.1.1) End Item - NonOrganic ⁽¹⁾	40 / 42.460	2 / 2.019	1 / 0.626	1 / 0.895	- / -	1 / 0.895	2 / 1.816	1 / 0.935	- / -	- / -	- / -	47 / 48.751	
2.1.2) ECP/OCIR - Organic ⁽²⁾	- / 2.087	- / 0.245	- / 0.950	- / 0.750	- / -	- / 0.750	- / 0.500	- / 0.557	- / -	- / -	- / -	- / 5.089	
Subtotal: Recurring	- / 44.547	- / 2.264	- / 1.576	- / 1.645	- / -	- / 1.645	- / 2.316	- / 1.492	- / -	- / -	- / -	- / 53.840	
Non-Recurring													
2.2.1) Training Equipment - Organic	3 / 1.726	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.726	
Subtotal: Non-Recurring	- / 1.726	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.726	
Subtotal: CB010 - DoD Advanced Automation System (DAAS)	43 / 46.273	2 / 2.264	1 / 1.576	1 / 1.645	- / -	1 / 1.645	2 / 2.316	1 / 1.492	- / -	- / -	- / -	50 / 55.566	
Subtotal: Procurement, All Modification Items	- / 46.273	- / 2.264	- / 1.576	- / 1.645	- / -	- / 1.645	- / 2.316	- / 1.492	- / -	- / -	- / -	- / 55.566	
Support (All Modification Items)													
3.1) Integrated Logistics Support	- / 3.063	- / 0.100	- / 0.120	- / 0.100	- / -	- / 0.100	- / 0.102	- / 0.097	- / 0.050	- / -	- / -	- / 3.632	
3.2) Production Engineering ⁽³⁾	- / 20.670	- / 1.059	- / 0.670	- / 0.838	- / -	- / 0.838	- / 0.744	- / 0.480	- / 0.375	- / -	- / -	- / 24.836	
3.3) Initial Training	- / 0.255	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.255	
Subtotal: Support	- / 23.988	- / 1.159	- / 0.790	- / 0.938	- / -	- / 0.938	- / 0.846	- / 0.577	- / 0.425	- / -	- / -	- / 28.723	
Installation													
Modification Item 1 of 1: CB010 - DoD Advanced Automation System (DAAS)	- / 44.068	- / 3.051	- / 1.125	- / 1.535	- / -	- / 1.535	- / 1.812	- / 2.090	- / 0.858	- / -	- / -	- / 54.539	
Subtotal: Installation	- / 44.068	- / 3.051	- / 1.125	- / 1.535	- / -	- / 1.535	- / 1.812	- / 2.090	- / 0.858	- / -	- / -	- / 54.539	
Total													
Total Cost (Procurement + Support + Installation)	114.329	6.474	3.491	4.118	-	4.118	4.974	4.159	1.283	-	-	138.828	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2840 / National Air Space System	Modification Number / Title: 1 / CB010 - DoD Advanced Automation System (DAAS)

Modification Item 1 of 1: CB010 - DoD Advanced Automation System (DAAS)

Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Marlborough, MA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Mar 2014	Mar 2015	Mar 2016				
Delivery Dates	Mar 2015	Mar 2016	Mar 2017				

Installation Information

Method of Implementation: AIT:: Installation Name: End Item

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	39 / 44.068	1 / 0.918	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 44.986
FY 2014	- / -	- / 2.133	2 / 0.595	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.728
FY 2015	- / -	- / -	- / 0.530	1 / 0.985	- / -	1 / 0.985	- / -	- / -	- / -	- / -	- / -	1 / 1.515
FY 2016	- / -	- / -	- / -	- / 0.550	- / -	- / 0.550	1 / 1.043	- / -	- / -	- / -	- / -	1 / 1.593
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.769	2 / 1.490	- / -	- / -	- / -	2 / 2.259
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	1 / 0.858	- / -	- / -	1 / 1.458
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	39 / 44.068	1 / 3.051	2 / 1.125	1 / 1.535	- / -	1 / 1.535	1 / 1.812	2 / 2.090	1 / 0.858	- / -	- / -	47 / 54.539

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	39	-	1	-	-	-	2	-	-	-	1	-	-	-	1	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	47
Out	39	-	-	1	-	-	-	2	-	-	-	1	-	-	-	1	-	-	-	1	1	-	-	1	-	-	-	-	-	-	47

Method of Implementation (Organic): Not Installed - Training Equipment **Installation Quantity:** 3

Footnotes:
⁽¹⁾ DAAS - AP costs for Installation occur 1 year prior to actual install and show as quantity zero. In FY16, procurements are FACSAC DAAS units which cover 3-4 times more airspace and are larger and costlier than FY15 procurements.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2840 / National Air Space System	Modification Number / Title: 1 / CB010 - DoD Advanced Automation System (DAAS)

⁽²⁾ ECP funding increase in FY15 provides for an ECP necessary to integrate the DAAS into the existing Fleet Area Control and Surveillance Facilities (FACSFAC). The ECP cost increases in FY16 from FY15 as the FAA begins to test the redesign of the software for the FACSFAC DAAS units. ECP costs are based on site unique software configurations through the rest of the FYDP.

⁽³⁾ Due to the procurement of the FACSFAC DAAS units in FY16, PE support costs increase as FAA certification costs are included in the price.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2840 / National Air Space System	Modification Number / Title: 2 / CB-030 Digital Airport Surveillance Radar (DASR)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	146.677	4.263	2.030	2.125	-	2.125	-	-	-	-	-	155.095
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	146.677	4.263	2.030	2.125	-	2.125	-	-	-	-	-	155.095
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	146.677	4.263	2.030	2.125	-	2.125	-	-	-	-	-	155.095
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The DASR was developed as part of a joint DoD/Federal Aviation Administration (FAA) program to modernize and standardize Air Traffic Control (ATC) equipment in the National Airspace System. The DASR is being installed in Navy ATC facilities to replace aging, obsolete approach control radars and comply with joint DoD/FAA modernization program agreements. Inventory objective of 29 DASR.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2840 / National Air Space System				Modification Number / Title: 2 / CB-030 Digital Airport Surveillance Radar (DASR)					
Models of Systems Affected: NAS				Modification Type: Added Capability				Related RDT&E PEs: 0604504N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: CB-030 Digital Airport Surveillance Radar (DASR)													
B Kits													
Recurring													
1.1.1) End Item - NonOrganic ⁽⁴⁾	29 / 93.806	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 93.806	
Subtotal: Recurring	- / 93.806	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 93.806	
Subtotal: CB-030 Digital Airport Surveillance Radar (DASR)	29 / 93.806	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 93.806	
Subtotal: Procurement, All Modification Items	- / 93.806	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 93.806	
Support (All Modification Items)													
2.1) Integrated Logistics Support	- / 3.260	- / 0.045	- / 0.025	- / 0.015	- / -	- / 0.015	- / -	- / -	- / -	- / -	- / -	- / 3.345	
2.2) Production Engineering	- / 13.478	- / 0.589	- / 0.405	- / 0.150	- / -	- / 0.150	- / -	- / -	- / -	- / -	- / -	- / 14.622	
Subtotal: Support	- / 16.738	- / 0.634	- / 0.430	- / 0.165	- / -	- / 0.165	- / -	- / -	- / -	- / -	- / -	- / 17.967	
Installation													
Modification Item 1 of 1: CB-030 Digital Airport Surveillance Radar (DASR)	- / 36.133	- / 3.629	- / 1.600	- / 1.960	- / -	- / 1.960	- / -	- / -	- / -	- / -	- / -	- / 43.322	
Subtotal: Installation	- / 36.133	- / 3.629	- / 1.600	- / 1.960	- / -	- / 1.960	- / -	- / -	- / -	- / -	- / -	- / 43.322	
Total													
Total Cost (Procurement + Support + Installation)	146.677	4.263	2.030	2.125	-	2.125	-	-	-	-	-	155.095	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2840 / National Air Space System	Modification Number / Title: 2 / CB-030 Digital Airport Surveillance Radar (DASR)

Modification Item 1 of 1: CB-030 Digital Airport Surveillance Radar (DASR)

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Marlborough, MA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 24

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: AIT:: Installation Name: End Item

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	20 / 36.133	2 / 3.629	2 / 1.600	2 / 1.960	- / 0.000	2 / 1.960	- / -	- / -	- / -	- / -	- / -	26 / 43.322
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	20 / 36.133	2 / 3.629	2 / 1.600	2 / 1.960	- / -	2 / 1.960	- / -	- / -	- / -	- / -	- / -	26 / 43.322

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	20	-	1	1	-	-	1	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	
Out	20	-	-	1	1	-	-	1	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	

Footnotes:

⁽⁴⁾ Quantity of procurements and quantity of installs do not match because three radar installations were funded and completed by the Federal Aviation Administration.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2840 / National Air Space System	Modification Number / Title: 3 / CB040 Tower Automation System (TAS)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	52.649	3.458	3.742	1.700	-	1.700	0.200	0.200	0.200	0.180	-	62.329
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	52.649	3.458	3.742	1.700	-	1.700	0.200	0.200	0.200	0.180	-	62.329
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	52.649	3.458	3.742	1.700	-	1.700	0.200	0.200	0.200	0.180	-	62.329
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The TAS was developed as part of a joint DoD/Federal Aviation Administration (FAA) program to modernize and standardize Air Traffic Control (ATC) equipment in the National Airspace System. The TAS is being installed in Navy ATC facilities to replace aging, obsolete equipment and comply with joint DoD/FAA modernization program agreements. Inventory objective of 57 TAS.

This effort includes Engineering Change Proposal (ECP) efforts directly related to the TAS Tech Refresh efforts detailed in cost element CB070 of this budget. The ECP introduces new capability into a common workstation that eliminates a separate visual communications alert indicator. The nature of that consolidation creates an interdependency with CB070; which addresses severe obsolescence issues that render the current workstation configuration unsupportable. Both software and hardware for these two cost elements overlap and require concurrent efforts. Delay or interruption to either CB040 and/or CB070 causes a break in fleet capability and negatively impacts both flight safety and operator workload.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2840 / National Air Space System				Modification Number / Title: 3 / CB040 Tower Automation System (TAS)					
Models of Systems Affected: NAS				Modification Type: Added Capability				Related RDT&E PEs: 0604504N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: CB040 Tower Automation System (TAS)													
B Kits													
Recurring													
1.1.1) End Item - NonOrganic ⁽⁵⁾		52 / 14.878	3 / 0.767	2 / 0.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	57 / 16.195	
1.1.2) ECP/OCIR - Organic ⁽⁶⁾		- / 1.055	- / 1.541	- / 1.500	- / 0.800	- / -	- / 0.800	- / 0.200	- / 0.200	- / 0.200	- / 0.180	- / -	- / 5.676
Subtotal: Recurring		- / 15.933	- / 2.308	- / 2.050	- / 0.800	- / -	- / 0.800	- / 0.200	- / 0.200	- / 0.200	- / 0.180	- / -	- / 21.871
Subtotal: CB040 Tower Automation System (TAS)		52 / 15.933	3 / 2.308	2 / 2.050	- / 0.800	- / -	- / 0.800	- / 0.200	- / 0.200	- / 0.200	- / 0.180	- / -	57 / 21.871
Subtotal: Procurement, All Modification Items		- / 15.933	- / 2.308	- / 2.050	- / 0.800	- / -	- / 0.800	- / 0.200	- / 0.200	- / 0.200	- / 0.180	- / -	- / 21.871
Support (All Modification Items)													
2.1) Integrated Logistics Support		- / 2.573	- / 0.020	- / 0.135	- / 0.050	- / -	- / 0.050	- / -	- / -	- / -	- / -	- / -	- / 2.778
2.2) Production Engineering		- / 24.468	- / 0.341	- / 0.291	- / 0.250	- / -	- / 0.250	- / -	- / -	- / -	- / -	- / -	- / 25.350
Subtotal: Support		- / 27.041	- / 0.361	- / 0.426	- / 0.300	- / -	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / 28.128
Installation													
Modification Item 1 of 1: CB040 Tower Automation System (TAS)		- / 9.675	- / 0.789	- / 1.266	- / 0.600	- / -	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / 12.330
Subtotal: Installation		- / 9.675	- / 0.789	- / 1.266	- / 0.600	- / -	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / 12.330
Total													
Total Cost (Procurement + Support + Installation)		52.649	3.458	3.742	1.700	-	1.700	0.200	0.200	0.200	0.180	-	62.329

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2840 / National Air Space System	Modification Number / Title: 3 / CB040 Tower Automation System (TAS)

Modification Item 1 of 1: CB040 Tower Automation System (TAS)

Manufacturer Information

Manufacturer Name: Pen-Tech	Manufacturer Location: Charleston, SC
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jan 2014	Jan 2015					
Delivery Dates	Jan 2015	Jan 2016					

Installation Information

Method of Implementation: AIT:: Installation Name: End Item

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	50 / 9.675	2 / 0.672	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	52 / 10.347
FY 2014	- / -	- / 0.117	3 / 0.866	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.983
FY 2015	- / -	- / -	- / 0.400	2 / 0.600	- / -	2 / 0.600	- / -	- / -	- / -	- / -	- / -	2 / 1.000
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	50 / 9.675	2 / 0.789	3 / 1.266	2 / 0.600	- / -	2 / 0.600	- / -	- / -	- / -	- / -	- / -	57 / 12.330

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	50	-	2	-	-	-	2	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57
Out	50	-	-	2	-	-	-	2	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57

Footnotes:

⁽⁵⁾ (1) TAS - Advanced Planning costs for Installation occur 1 year prior to actual install and show as quantity zero. (2) Inventory objective reduced by one from 58 to 57 due to Base Realignment and Closure of NAS Keflavik.

⁽⁶⁾ Support costs are included in the ECP/OCIR lines.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2840 / National Air Space System	Modification Number / Title: 4 / CB050 STARS TECH Refresh Upgrade

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	1.997	10.806	8.399	-	8.399	11.360	13.853	17.702	18.390	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	1.997	10.806	8.399	-	8.399	11.360	13.853	17.702	18.390	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	1.997	10.806	8.399	-	8.399	11.360	13.853	17.702	18.390	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 Standard Terminal Automation Replacement System (STARS) is a joint (DoD) and Department of Transportation Federal Aviation Administration (FAA) program to modernize terminal air traffic control automation systems. The STARS contract was awarded by the FAA on September 16, 1996, and ends September 30, 2012. The FAA anticipates the award of a contract for system maintenance, system technical refresh, and system enhancements through fiscal year 2017. The FAA began the Next Generation Air Transportation System initiative in FY2008. A major component of this capability is Automatic Dependent Surveillance Broadcast, which will provide aircraft position information in place of ground-based radar. The DoD version of STARS DoD Advanced Automation System (DAAS) must be upgraded to meet this requirement. Inventory objective is 48.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2840 / National Air Space System				Modification Number / Title: 4 / CB050 STARS TECH Refresh Upgrade					
Models of Systems Affected: NAS				Modification Type: AIT				Related RDT&E PEs: 0604504N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: CB050 STARS TECH Refresh Upgrade													
B Kits													
Recurring													
2.1.1) End Item - NonOrganic ⁽⁷⁾													
Subtotal: Recurring													
Subtotal: CB050 STARS TECH Refresh Upgrade													
Subtotal: Procurement, All Modification Items													
Support (All Modification Items)													
3.1) Integrated Logistics Support													
3.2) Production Engineering													
Subtotal: Support													
Installation													
Modification Item 1 of 1: CB050 STARS TECH Refresh Upgrade													
Subtotal: Installation													
Total													
Total Cost (Procurement + Support + Installation)													

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2840 / National Air Space System	Modification Number / Title: 4 / CB050 STARS TECH Refresh Upgrade

Modification Item 1 of 1: CB050 STARS TECH Refresh Upgrade

Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Marlborough, MA			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Mar 2014	Mar 2015	Mar 2016				
Delivery Dates	Mar 2015	Mar 2016	Mar 2017				

Installation Information

Method of Implementation: AIT:: Installation Name: End Item

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	2 / 0.720	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.720
FY 2015	- / -	- / -	- / -	7 / 2.520	- / -	7 / 2.520	- / -	- / -	- / -	- / -	- / -	7 / 2.520
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.449	- / -	- / -	- / -	- / -	4 / 1.449
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 2.189	- / -	- / -	- / -	7 / 2.189
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.040	- / -	- / -	8 / 3.040
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 3.700	- / -	10 / 3.700
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 3.900	10 / 3.900
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	2 / 0.720	7 / 2.520	- / -	7 / 2.520	4 / 1.449	7 / 2.189	8 / 3.040	10 / 3.700	10 / 3.900	48 / 17.518

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	2	-	-	-	3	4	-	-	2	2	-	-	4	3	-	-	3	3	2	-	3	4	3	10	48
Out	-	-	-	-	-	-	-	2	-	-	3	4	-	-	-	2	2	-	4	3	-	-	3	3	2	-	3	4	3	10	48

Footnotes:

⁽⁷⁾ (1) Inventory objective is 48. (2) Support cost fluctuations are due to the tailored to meet Naval Air Station / Fleet Area Control and Surveillance Facility requirements, and Marine Corps Air Station mission requirements. (3) Installation costs fluctuate based on location of installation and the tailoring of systems to meet Naval Air Station / Fleet Area Control and Surveillance Facility requirements, and Marine Corps Air Station mission requirements.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2840 / National Air Space System				Modification Number / Title: 5 / CB060 DASR Tech Refresh Upgrade			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.628	1.163	1.186	-	1.186	0.999	1.502	1.770	1.162	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	0.628	1.163	1.186	-	1.186	0.999	1.502	1.770	1.162	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.628	1.163	1.186	-	1.186	0.999	1.502	1.770	1.162	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Federal Aviation Administration (FAA) Digital Airport Surveillance Radar Technology Refresh is an ongoing program to address obsolescence and maintenance issues and is being accomplished in sequential 5-year segments. The Segment 1 program replaces and upgrades obsolete Commercial Off-The-Shelf hardware and software to ensure the continued reliable and cost effective operation of the radar system through its designated lifecycle. Segment 1 is well defined and provides increased functionality by replacing existing Signal Data Processors (SDPs) with an Advanced Signal Data Processor. The major objectives of Segment 1 are: 1) Install replacement kits for the SDP and eliminate the Low Overhead Array Processors, 2) Use scalable hardware and software architecture to permit easy future growth with minimal cost and effort, and 3) Address system In-Service Decision open action items. Segment 2 is being defined by the FAA to identify parts obsolescence, operational performance deficiencies, or other areas requiring technology refresh including upgrades to mitigate wind turbine interference.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2840 / National Air Space System				Modification Number / Title: 5 / CB060 DASR Tech Refresh Upgrade					
Models of Systems Affected: NAS				Modification Type: Added Capability				Related RDT&E PEs: 0604504N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: CB060 DASR Tech Refresh Upgrade													
B Kits													
Recurring													
2.1.1) End Item - NonOrganic ⁽⁸⁾	- / -	- / -	1 / 0.576	1 / 0.580	- / -	1 / 0.580	1 / 0.430	2 / 0.928	2 / 1.000	1 / 0.434	21 / 9.114	29 / 13.062	
2.1.2) ECP - Organic	- / -	- / 0.598	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Recurring	- / 0.000	- / 0.598	- / 0.576	- / 0.580	- / -	- / 0.580	- / 0.430	- / 0.928	- / 1.000	- / 0.434	Continuing	Continuing	
Subtotal: CB060 DASR Tech Refresh Upgrade	- / -	- / 0.598	1 / 0.576	1 / 0.580	- / -	1 / 0.580	1 / 0.430	2 / 0.928	2 / 1.000	1 / 0.434	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 0.000	- / 0.598	- / 0.576	- / 0.580	- / -	- / 0.580	- / 0.430	- / 0.928	- / 1.000	- / 0.434	Continuing	Continuing	
Support (All Modification Items)													
3.1) Integrated Logistics Support	- / -	- / 0.020	- / 0.137	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.105	- / 0.105	- / 0.100	Continuing	Continuing	
3.2) Production Engineering	- / -	- / 0.010	- / 0.450	- / 0.342	- / -	- / 0.342	- / 0.305	- / 0.305	- / 0.305	- / 0.300	Continuing	Continuing	
Subtotal: Support	- / 0.000	- / 0.030	- / 0.587	- / 0.442	- / -	- / 0.442	- / 0.405	- / 0.410	- / 0.410	- / 0.400	Continuing	Continuing	
Installation													
Modification Item 1 of 1: CB060 DASR Tech Refresh Upgrade	- / 0.000	- / -	- / -	- / 0.164	- / -	- / 0.164	- / 0.164	- / 0.164	- / 0.360	- / 0.328	- / 3.608	- / 4.788	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 0.164	- / -	- / 0.164	- / 0.164	- / 0.164	- / 0.360	- / 0.328	- / 3.608	- / 4.788	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.628	1.163	1.186	-	1.186	0.999	1.502	1.770	1.162	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9		P-1 Line Item Number / Title: 2840 / National Air Space System			Modification Number / Title: 5 / CB060 DASR Tech Refresh Upgrade

Modification Item 1 of 1: CB060 DASR Tech Refresh Upgrade

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Marlborough, MA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 3

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Mar 2015	Mar 2016				
Delivery Dates		Mar 2016	Mar 2017				

Installation Information

Method of Implementation: AIT:: Installation Name: End Item

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	1 / 0.164	- / -	1 / 0.164	- / -	- / -	- / -	- / -	- / -	1 / 0.164
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.164	- / -	- / -	- / -	- / -	1 / 0.164
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.164	- / -	- / -	- / -	1 / 0.164
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.360	- / -	- / -	2 / 0.360
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.328	- / -	2 / 0.328
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.164	1 / 0.164
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 3.444	21 / 3.444
Total	- / -	- / -	- / -	1 / 0.164	- / -	1 / 0.164	1 / 0.164	1 / 0.164	2 / 0.360	2 / 0.328	22 / 3.608	29 / 4.788

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	2	-	-	22	29
Out	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	2	-	22	29

Footnotes:

⁽⁸⁾ Unit costs and installation costs vary due to site-specific requirements.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2840 / National Air Space System	Modification Number / Title: 6 / CB070 TAS Tech Refresh

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	0.050	1.649	4.200	-	4.200	3.835	2.938	2.897	2.773	1.034	19.376
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	0.050	1.649	4.200	-	4.200	3.835	2.938	2.897	2.773	1.034	19.376
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	0.050	1.649	4.200	-	4.200	3.835	2.938	2.897	2.773	1.034	19.376
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Tower Automation Systems have been fielded since 2001 and are experiencing obsolescence and Information Assurance (IA) issues. These upgrades will address these obsolescence and IA issues as well as maintain compatibility with the FAA's Next Generation (NextGen) Air Transportation System initiatives. Additionally, these upgrades will enhance system performance to provide Common Access Card utilization, multi-source weather reporting and Tactical Air Control Navigation (TACAN) control. In order to achieve the modernization of the National Air Space (NAS) envisioned by NextGen, the FAA is developing a Terminal Flight Data Management (TFDM) platform that integrates flight data systems and decision support tools. The TFDM program is an integrated approach to maximize the efficient collection, distribution, and update of data and improve access to information necessary for the safe and efficient control of air traffic. The TAS will be upgraded to be consistent with the FAA TFDM.

This effort includes TAS Tech Refresh efforts directly related to the Engineering Change Proposal (ECP) efforts detailed in cost element CB040 of this budget. The ECP introduces new capability into a common workstation that eliminates a separate visual communications (VISCOM) alert indicator. The nature of that consolidation creates an interdependency with CB040; which addresses severe obsolescence issues that render the current workstation configuration unsupportable. Both software and hardware for these two cost elements overlap and require concurrent efforts. Delay or interruption to either CB040 and/or CB070 causes a break in fleet capability and negatively impacts both flight safety and operator workload.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2840 / National Air Space System				Modification Number / Title: 6 / CB070 TAS Tech Refresh				
Models of Systems Affected: NAS			Modification Type: Added Capability					Related RDT&E PEs: 0604504N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: CB070 TAS Tech Refresh												
B Kits												
Recurring												
2.1.1) End Item - NonOrganic ⁽⁹⁾	- / -	- / -	7 / 1.029	16 / 2.400	- / -	16 / 2.400	9 / 1.374	8 / 1.246	10 / 1.588	7 / 1.133	- / -	57 / 8.770
Subtotal: Recurring	- / 0.000	- / -	- / 1.029	- / 2.400	- / -	- / 2.400	- / 1.374	- / 1.246	- / 1.588	- / 1.133	- / -	- / 8.770
Subtotal: CB070 TAS Tech Refresh	- / -	- / -	7 / 1.029	16 / 2.400	- / -	16 / 2.400	9 / 1.374	8 / 1.246	10 / 1.588	7 / 1.133	- / -	57 / 8.770
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / 1.029	- / 2.400	- / -	- / 2.400	- / 1.374	- / 1.246	- / 1.588	- / 1.133	- / -	- / 8.770
Support (All Modification Items)												
3.1) Integrated Logistics Support ⁽¹⁰⁾	- / -	- / -	- / 0.125	- / 0.235	- / -	- / 0.235	- / 0.149	- / 0.122	- / 0.105	- / 0.105	- / -	- / 0.841
3.2) Production Engineering	- / -	- / 0.050	- / 0.495	- / 0.631	- / -	- / 0.631	- / 0.373	- / 0.450	- / 0.204	- / 0.262	- / -	- / 2.465
Subtotal: Support	- / 0.000	- / 0.050	- / 0.620	- / 0.866	- / -	- / 0.866	- / 0.522	- / 0.572	- / 0.309	- / 0.367	- / -	- / 3.306
Installation												
Modification Item 1 of 1: CB070 TAS Tech Refresh	- / 0.000	- / -	- / -	- / 0.934	- / -	- / 0.934	- / 1.939	- / 1.120	- / 1.000	- / 1.273	- / 1.034	- / 7.300
Subtotal: Installation	- / 0.000	- / -	- / -	- / 0.934	- / -	- / 0.934	- / 1.939	- / 1.120	- / 1.000	- / 1.273	- / 1.034	- / 7.300
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.050	1.649	4.200	-	4.200	3.835	2.938	2.897	2.773	1.034	19.376

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9		P-1 Line Item Number / Title: 2840 / National Air Space System			Modification Number / Title: 6 / CB070 TAS Tech Refresh		

Modification Item 1 of 1: CB070 TAS Tech Refresh

Manufacturer Information							
Manufacturer Name: Pen-Tech				Manufacturer Location: Charleston, SC			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Mar 2015	Mar 2016				
Delivery Dates		Mar 2016	Mar 2017				

Installation Information

Method of Implementation: AIT:: Installation Name: End Item

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	7 / 0.934	- / -	7 / 0.934	- / -	- / -	- / -	- / -	- / -	7 / 0.934
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	16 / 1.939	- / -	- / -	- / -	- / -	16 / 1.939
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 1.120	- / -	- / -	- / -	9 / 1.120
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 1.000	- / -	- / -	8 / 1.000
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.273	- / -	10 / 1.273
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.034	7 / 1.034
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	7 / 0.934	- / -	7 / 0.934	16 / 1.939	9 / 1.120	8 / 1.000	10 / 1.273	7 / 1.034	57 / 7.300

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	4	3	-	-	8	8	-	-	5	4	-	-	4	4	-	-	5	5	-	7	57
Out	-	-	-	-	-	-	-	-	-	-	-	4	3	-	-	8	8	-	-	5	4	-	-	4	4	-	-	5	5	7	57

Footnotes:

⁽⁹⁾ Inventory objective reduced by one from 58 to 57 due to Base Realignment and Closure of NAS Keflavik.

⁽¹⁰⁾ Support cost fluctuations are due to the tailored to meet Naval Air Station / Fleet Area Control and Surveillance Facility requirements, and Marine Corps Air Station mission requirements.

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2840 / National Air Space System						Modification Number / Title: 7 / CB080 NAS Voice System (NVS)		
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	3.758	3.893	-	3.893	6.350	7.465	6.701	8.690	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	-	3.758	3.893	-	3.893	6.350	7.465	6.701	8.690	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	3.758	3.893	-	3.893	6.350	7.465	6.701	8.690	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Federal Aviation Administration (FAA) NAS Voice System(NVS) is a New Start in FY 2015 and a forward-looking program to replace national airspace system (NAS) voice switches and radios with a new technology system capable of supporting future requirements for the Next Generation Air Transportation System (NextGen). Many of these switches are experiencing increasing obsolescence and failures and are in need of replacement. They are not capable of supporting flexible reallocation of access to communications resources, and lack security needed for a network-based communications infrastructure, which is a key concept in modernization of the NAS. The NVS program will provide a key transitional element in the air traffic control voice communications infrastructure as it moves toward realizing the FAAs NextGen vision and a more operationally efficient and economic NAS.

Radios: There are 75 sites which will receive a total of 4,498 radios. The sites to receive radios include Fleet Area Control Surveillance Facilities (FACSFACs) remote sites at Naval and Marine Corps Air Stations. The number of radios per site varies due to operational requirements and the number of aircraft serviced.

Voice Switches: There are two specific types of Voice Switches being procured: Operational Communication System (OCS) and Emergency Control System (ECS): 56 OCS Voice Switches, 42 ECS Voice Switches.

42 Sites will receive both an OCS Voice Switch and an ECS Voice Switch, 14 sites will receive only an OCS voice switch. While FACSFAC remote sites are equipped with radios, they are not equipped with Voice Switches.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2840 / National Air Space System				Modification Number / Title: 7 / CB080 NAS Voice System (NVS)					
Models of Systems Affected: NAS				Modification Type: Added Capability				Related RDT&E PEs: 0604504N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: CB080 NAS Voice System (NVS)													
B Kits													
Recurring													
2.1.1) End Item - Next Generation Voice Switch - NonOrganic ⁽¹¹⁾	- / -	- / -	2 / 2.940	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.940	
2.1.2) End Item: Radios - NonOrganic ⁽¹²⁾	- / -	- / -	- / -	334 / 2.805	- / -	334 / 2.805	592 / 5.173	618 / 5.509	497 / 4.519	545 / 5.054	1,912 / 18.194	4,498 / 41.254	
2.1.3) End Item: OCS Voice Switch - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.557	55 / 95.666	56 / 97.223	
2.1.4) End Item: ECS Voice Switch - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.169	41 / 7.474	42 / 7.643	
Subtotal: Recurring	- / 0.000	- / -	- / 2.940	- / 2.805	- / -	- / 2.805	- / 5.173	- / 5.509	- / 4.519	- / 6.780	- / 121.334	- / 149.060	
Subtotal: CB080 NAS Voice System (NVS)	- / -	- / -	2 / 2.940	334 / 2.805	- / -	334 / 2.805	592 / 5.173	618 / 5.509	497 / 4.519	547 / 6.780	2,008 / 121.334	4,598 / 149.060	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / 2.940	- / 2.805	- / -	- / 2.805	- / 5.173	- / 5.509	- / 4.519	- / 6.780	- / 121.334	- / 149.060	
Support (All Modification Items)													
3.1) Integrated Logistics Support ⁽¹³⁾	- / -	- / -	- / 0.288	- / 0.160	- / -	- / 0.160	- / 0.180	- / 0.220	- / 0.283	- / 0.283	Continuing	Continuing	
3.2) Production Engineering ⁽¹⁴⁾	- / -	- / -	- / 0.530	- / 0.302	- / -	- / 0.302	- / 0.310	- / 0.400	- / 0.476	- / 0.460	Continuing	Continuing	
Subtotal: Support	- / 0.000	- / -	- / 0.818	- / 0.462	- / -	- / 0.462	- / 0.490	- / 0.620	- / 0.759	- / 0.743	Continuing	Continuing	
Installation													
Modification Item 1 of 1: CB080 NAS Voice System (NVS)	- / 0.000	- / -	- / -	- / 0.626	- / -	- / 0.626	- / 0.687	- / 1.336	- / 1.423	- / 1.167	- / 37.784	- / 43.023	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 0.626	- / -	- / 0.626	- / 0.687	- / 1.336	- / 1.423	- / 1.167	- / 37.784	- / 43.023	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	3.758	3.893	-	3.893	6.350	7.465	6.701	8.690	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9										P-1 Line Item Number / Title: 2840 / National Air Space System										Modification Number / Title: 7 / CB080 NAS Voice System (NVS)											
Modification Item 1 of 1: CB080 NAS Voice System (NVS)																															
Manufacturer Information																															
Manufacturer Name: Raytheon															Manufacturer Location: Marlborough, MA																
Administrative Leadtime (in Months): 6															Production Leadtime (in Months): 12																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates						Mar 2015				Mar 2016																					
Delivery Dates						Mar 2016				Mar 2017																					
Installation Information																															
Method of Implementation: AIT:: Installation Name: End Item - Next Generation Voice Switch																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		- / -	- / -	- / -	2 / 0.626	- / -	2 / 0.626	- / -	- / -	- / -	- / -	- / -	2 / 0.626																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	2 / 0.626	- / -	2 / 0.626	- / -	- / -	- / -	- / -	- / -	2 / 0.626																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Out	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Method of Implementation: AIT: Installation Name: End Item:: Installation Name: End Item: Radios																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2840 / National Air Space System				Modification Number / Title: 7 / CB080 NAS Voice System (NVS)			

Modification Item 1 of 1: CB080 NAS Voice System (NVS)

Installation Information

Method of Implementation: AIT: Installation Name: End Item:: Installation Name: End Item: Radios

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	334 / 0.687	- / -	- / -	- / -	- / -	334 / 0.687
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	592 / 1.336	- / -	- / -	- / -	592 / 1.336
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	618 / 1.423	- / -	- / -	618 / 1.423
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	497 / 1.167	- / -	497 / 1.167
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	545 / 1.305	545 / 1.305
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,912 / 12.583	1,912 / 12.583
Total	- / -	- / -	- / -	- / -	- / -	- / -	334 / 0.687	592 / 1.336	618 / 1.423	497 / 1.167	2,457 / 13.888	4,498 / 18.501

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	134	100	100	-	198	197	197	-	206	206	206	-	167	166	164	2,457	4,498
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	134	100	100	-	198	197	197	-	206	206	206	-	167	166	164	2,457	4,498

Method of Implementation: AIT: Installation Name: End Item:: Installation Name: End Item: OCS Voice Switch

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.287	1 / 0.287
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 15.875	55 / 15.875
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	56 / 16.162	56 / 16.162

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2840 / National Air Space System	Modification Number / Title: 7 / CB080 NAS Voice System (NVS)

Modification Item 1 of 1: CB080 NAS Voice System (NVS)

Installation Information

Method of Implementation: AIT: Installation Name: End Item:: Installation Name: End Item: OCS Voice Switch

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	56
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	56

Method of Implementation: AIT: Installation Name: End Item:: Installation Name: End Item: ECS Voice Switch

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.184	1 / 0.184
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	41 / 7.550	41 / 7.550
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 7.734	42 / 7.734

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	42	
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	42	

Footnotes:

- (11) The new switches and radios are adding a new capability, however the old switches can still be used in another mode and remain usable with the new radios.
- (12) End Item costs are based on current FAA contract pricing.
- (13) Radio procurement increases from FY16 to FY17 and related ILS costs increase also as additional drawings and provisioning technical documents are required.
- (14) Radio procurement increases from FY16 to FY17 and related PE costs increase also as additional drawings and provisioning technical documents are required.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment							P-1 Line Item Number / Title: 2845 / Fleet Air Traffic Control Systems					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	184.849	8.909	9.214	8.249	-	8.249	8.381	8.510	8.618	8.799	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	184.849	8.909	9.214	8.249	-	8.249	8.381	8.510	8.618	8.799	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	184.849	8.909	9.214	8.249	-	8.249	8.381	8.510	8.618	8.799	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.493	0.759	0.724	-	0.724	0.685	0.654	0.528	0.538	Continuing	Continuing
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: NAVAIR provides shore based Air Traffic Control (ATC) terminal facilities and equipment that are required in joint efforts to efficiently and safely monitor and direct military and commercial air traffic in national and international air space. Many of these systems are required to interface through automated means with the Federal Aviation Administration (FAA). Additionally, NAVAIR has material support responsibility for Air Navigation Aid Systems, Mobile ATC Equipment, Special Instrumentation Systems, and Ancillary Equipment used at Navy and Marine Corps Aviation Shore activities in the continental United States and overseas. Engineering Change Proposal (ECP)/Operational Capability Improvement Request (OCIR) modernization (MR069) - The ECP/OCIR program provides for the procurement and/or modification of critically needed communications, radar, displays, data processors, and other electronic systems/equipment at Navy/Marine Corps ATC facilities worldwide. ECP/OCIR procurements replace and modernize costly-to-maintain systems and equipment in order to increase ATC efficiency and safety, and reduce total ownership costs. Communications Systems Upgrade Program (MR408) - This program procures and installs advanced commercial state-of-the-art ATC voice switching and recording/reproduction equipment. Fiber Optic Intersite System (FOIS) Upgrade Program (MR430) - FOIS is required for Precision Approach Radar (PAR) operations and the AN/FAC-6(V)4 FOIS is required for ATC voice communications at Naval and Marine Corps ATC facilities. This program ensures continued capability of these critical ATC systems. UHF/VHF Transceiver Replacement Program (MR440) - This program modernizes aging Navy and Marine Corps UHF/VHF Transceivers that are the central core of all ATC emergency communications. Emergency Communication System (ECS) Upgrade Program (MR445) - This program modernizes obsolete and unsupportable ECS equipment. Voice Switches, Recorders, Reproducers, Uninterruptable Power Supplies, and Built-In Test Equipment will be replaced with modern, supportable components. Recorder Upgrade Program (MR455) - This program procures and installs state-of-the-art ATC recording/reproducing equipment which will be used to replace aging ATC recorder systems through participation in the FAA's Next Generation Recorder Program. Air Field Lighting Control System (AFLCS) (MR510) - This program modernizes obsolete and unsupportable AFLCS equipment which will be replaced with modern, supportable components.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment		P-1 Line Item Number / Title: 2845 / Fleet Air Traffic Control Systems
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
Fleet Area Control and Surveillance Facilities (FACSFAC) Tech Refresh (MR515) - This program modernizes obsolete and unsupportable Commercial Off The Shelf (COTS) equipment in the AN/FYK-39 FACSFAC Air Control and Tracking System (FACTS). Operational Communication System (OCS)/Emergency Communication System (ECS) Air Traffic Control (ATC) Recorder replacement program (MR520), through participation in the Federal Aviation Administration's (FAA) ATC recorder replacement program will replace aging and obsolete ATC OCS and ECS ATC recorders with state of the art ATC recording/reproducing technology. * Prior year total amount accounts for items funded in the current FYDP.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment				P-1 Line Item Number / Title: 2845 / Fleet Air Traffic Control Systems				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Fleet Air Traffic Control Systems	P-5		- / 184.849	- / 8.909	- / 9.214	- / 8.249	- / -	- / 8.249
Total Gross/Weapon System Cost			- / 184.849	- / 8.909	- / 9.214	- / 8.249	- / -	- / 8.249
*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 add due to rounding.								

Justification:

The FY 2016 funding request was reduced by \$0.2 million to account for the availability of prior year execution balances.

The basis for the FY2016 budget request is to continue modernizing aging Navy and Marine Corps ATC facilities and equipment in order to safely monitor and direct military and commercial air traffic in national and international air space. This equipment must continue to interface through automated means with the FAA.

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9						P-1 Line Item Number / Title: 2845 / Fleet Air Traffic Control Systems						Item Number / Title [DODIC]: 1 / Fleet Air Traffic Control Systems							
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				184.849		8.909		9.214		8.249		-		8.249					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P1) <i>(\$ in Millions)</i>				184.849		8.909		9.214		8.249		-		8.249					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				184.849		8.909		9.214		8.249		-		8.249					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares <i>(\$ in Millions)</i>				-		0.493		0.759		0.724		-		0.724					
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - Fleet ATC - Hardware Cost																			
Recurring Cost																			
1.1.1) MR069 ECP/OCIR ⁽¹⁾	52,242.11	190	9.926	105,800.00	10	1.058	96,100.00	10	0.961	58,000.00	1	0.058	-	-	-	58,000.00	1	0.058	
1.1.2) MR408 COMM System Upgrade ⁽²⁾	332,672.73	55	18.297	-	-	0.208	430,000.00	1	0.430	950,000.00	1	0.950	-	-	-	950,000.00	1	0.950	
1.1.3) MR430 Fiber Optic Intersite Upgrade	143,680.00	25	3.592	164,636.36	11	1.811	204,000.00	6	1.224	-	-	-	-	-	-	-	-	-	
1.1.4) MR440 UHF/VHF Transceiver Replacement ⁽³⁾	29,516.13	155	4.575	34,150.00	20	0.683	20,000.00	20	0.400	21,000.00	30	0.630	-	-	-	21,000.00	30	0.630	
1.1.5) MR445 Emergency Communication System (ECS) Upgrade ⁽⁴⁾	368,611.11	18	6.635	645,333.33	3	1.936	413,000.00	4	1.652	421,000.00	3	1.263	-	-	-	421,000.00	3	1.263	
1.1.6) MR455 ATC Recorder Upgrade Program	70,509.80	51	3.596	30,600.00	5	0.153	94,714.29	7	0.663	-	-	-	-	-	-	-	-	-	
1.1.7) MR510 Air Field Lighting Control System	-	-	-	-	-	-	300,000.00	1	0.300	306,000.00	2	0.612	-	-	-	306,000.00	2	0.612	
1.1.8) MR515 FACSAC Air Control & Tracking System	-	-	-	-	-	-	-	-	-	623,000.00	1	0.623	-	-	-	623,000.00	1	0.623	

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9						P-1 Line Item Number / Title: 2845 / Fleet Air Traffic Control Systems							Item Number / Title [DODIC]: 1 / Fleet Air Traffic Control Systems					
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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: Recurring Cost	-	-	46.621	-	-	5.849	-	-	5.630	-	-	4.136	-	-	-	-	-	4.136
Subtotal: Hardware - Fleet ATC - Hardware Cost	-	-	46.621	-	-	5.849	-	-	5.630	-	-	4.136	-	-	-	-	-	4.136
Support - Other Cost																		
2.1) Other Costs	-	-	135.777	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) Fleet ATC Integrated Logistics Support (MR800)	-	-	0.195	-	-	0.247	-	-	0.276	-	-	0.315	-	-	-	-	-	0.315
2.3) Fleet ATC Production Engineering (MR830)	-	-	0.613	-	-	0.452	-	-	0.448	-	-	0.543	-	-	-	-	-	0.543
2.4) Fleet ATC Installs ⁽⁵⁾	-	-	1.643	-	-	2.361	-	-	2.860	-	-	3.255	-	-	-	-	-	3.255
Subtotal: Support - Other Cost	-	-	138.228	-	-	3.060	-	-	3.584	-	-	4.113	-	-	-	-	-	4.113
Gross/Weapon System Cost	-	-	184.849	-	-	8.909	-	-	9.214	-	-	8.249	-	-	-	-	-	8.249
Footnotes:																		
⁽¹⁾ MR069: Number and unit costs of Operational Capability Improvement Requests (OCIR) costs can vary significantly between fiscal years. The unit cost for an individual OCIR can range in price from 1,500.00 to 175,000.00 so the unit cost is an average of all the OCIRS and therefore appears to fluctuate from year to year.																		
⁽²⁾ MR408: Total end item quantity: 59. Decrease in inventory objective from 62 at PB15 is due to BRAC of Naval Air Station (NAS) Keflavik, NAS Willow Grove, and NAS Brunswick. Site specific configuration drives cost which is why the unit cost does not remain constant from FY15 to FY16. Quantity of FY2014 procurements and quantity of FY2015 installs do not match because the FY14 procurement was funded by Air Force Central Command (AFCENT) while the install will be funded by DON in FY2015.																		
⁽³⁾ MR440: Unit cost almost doubles in FY14 because of decision to employ different Commercial Off-the-Shelf (COTS) solution due to earlier co-site interference issues experienced during initial fielding. The new COTS solution worked at all Naval and Marine Corps Air Stations; however, it was determined that the output power was not adequate to meet the distance requirements at the Fleet Area Control and Surveillance Facilities (FACSFACs) so an increased power capability is required which drives the cost.																		
⁽⁴⁾ MR445: The unit cost is high in FY14 because of the transceiver co-site interference issue where no new transceivers were installed while the remainder of the Emergency Communication System equipment were installed. In FY14 procured and started the backfit installation of the transceivers at the sites that were omitted.																		
⁽⁵⁾ Installation costs increase in FY16 because we anticipate a significant learning curve associated with the installation of the first Air Field Lighting Control System in FY16.																		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment						P-1 Line Item Number / Title: 2846 / Landing Systems						
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	70.699	13.486	13.902	14.715	-	14.715	27.393	28.198	30.753	31.396	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	70.699	13.486	13.902	14.715	-	14.715	27.393	28.198	30.753	31.396	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	70.699	13.486	13.902	14.715	-	14.715	27.393	28.198	30.753	31.396	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.050	0.051	0.044	-	0.044	0.044	0.044	0.045	0.046	Continuing	Continuing
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Chief of Naval Operations (CNO) tasked Naval Air Systems Command (NAVAIR) with the requirement to provide shore based Air Traffic Control (ATC) terminal facilities and equipment that are required to efficiently and safely monitor and direct military and commercial air traffic in national and international air space. Many of these systems are required to interface through automated means with the Federal Aviation Administration (FAA). Additionally, NAVAIR has material support responsibility for Air Navigation Aid Systems, Mobile ATC Equipment, Special Instrumentation Systems, and Ancillary Equipment used for ATC and Landing Systems (LS) by the Navy and Marine Corps. This Landing Systems program, in conjunction with the Fleet ATC Systems and the National Airspace System Modernization program provide the three pillars by which the Navy supports and meets established requirements to modernize and ensure reliable, safe and effective operations of ATC & LS used at the Navy and Marine Corps air stations worldwide. This Landing Systems budget provides funding to modernize and ensure the reliability of Precision Approach Radars (PAR), Tactical Air Navigation (TACAN) systems, and other air navigation aids used by the Navy and Marine Corps. PAR Commercial-off-the-shelf (COTS)Upgrade Engineering Change Proposals (ECPs) update old technology and extend the service life of the PAR. The PAR Upgrade ECPs consist of the Modulator Board Upgrade ECP, the Antenna Upgrade ECP, the Configuration Upgrade ECP, the Turntable Upgrade ECP, the Fiber Optic Intersite System (FOIS) ECP, the Angle Voltage Generator (AVG) Upgrade ECP, and the Technology Refresh Upgrade ECP. TACAN Upgrade ECPs update old technology and extend the service life of the TACAN. The TACAN sustainment consists of the Antenna Upgrade ECP, the Shelter Upgrade ECP and the Beacon Upgrade ECP.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment	P-1 Line Item Number / Title: 2846 / Landing Systems

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Landing Systems	P-5		- / 68.925	- / 4.670	- / 4.267	- / 4.156	- / -	- / 4.156
1 / AN/FPN-63 PAR TECH REFRESH (X1036) (Reliability)	P-3a		- / 1.774	- / 8.816	- / 8.635	- / 3.498	- / -	- / 3.498
2 / PAR ILS Upgrade (X1037) ()	P-3a		- / 0.000	- / -	- / 0.500	- / 3.315	- / -	- / 3.315
3 / TACAN Antenna Upgrade (X1043) (Modernization)	P-3a		- / 0.000	- / -	- / 0.500	- / 3.746	- / -	- / 3.746
Total Gross/Weapon System Cost			- / 70.699	- / 13.486	- / 13.902	- / 14.715	- / -	- / 14.715

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / Landing Systems	P-5		- / -	- / -	- / -	- / -	- / -	- / -
1 / AN/FPN-63 PAR TECH REFRESH (X1036) (Reliability)	P-3a		- / 9.920	- / 9.865	- / 9.045	- / 9.196	Continuing	Continuing
2 / PAR ILS Upgrade (X1037) ()	P-3a		- / 7.377	- / 8.090	- / 8.360	- / 11.947	Continuing	Continuing
3 / TACAN Antenna Upgrade (X1043) (Modernization)	P-3a		- / 5.657	- / 6.208	- / 9.227	- / 10.090	Continuing	Continuing
Total Gross/Weapon System Cost			- / 27.393	- / 28.198	- / 30.753	- / 31.396	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 add due to rounding.

Justification:

The FY 2016 funding request was reduced by \$5.2 million to account for the availability of prior year execution balances.

FY2016 provides funding to procure 1 PAR Tech Refresh, 3 PAR COTS ILS Upgrades, 1 TACAN Antennae Upgrade, and 8 TACAN Beacon Upgrades.

Prior years total amount only accounts for items funded in the current FYDP.

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Exhibit P-5, Cost Analysis: PB 2016 Navy										Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2846 / Landing Systems						Item Number / Title [DODIC]: 1 / Landing Systems								
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total						
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-						
Gross/Weapon System Cost <i>(\$ in Millions)</i>	68.925	4.670	4.267	4.156	-	4.156	-	-	-	-	-	-						
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-						
Net Procurement (P1) <i>(\$ in Millions)</i>	68.925	4.670	4.267	4.156	-	4.156	-	-	-	-	-	-						
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-						
Total Obligation Authority <i>(\$ in Millions)</i>	68.925	4.670	4.267	4.156	-	4.156	-	-	-	-	-	-						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-						
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - Landing Systems Cost																		
Recurring Cost																		
1.1.1) X1030 PAR AVG Upgrade	93,485.71	35	3.272	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) X1031 PAR FOIS	75,285.71	14	1.054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) X1032 PAR TURNTABLE UPGRADE	185,300.00	30	5.559	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.4) X1033 - PAR CONFIGURATION UPGRADE	62,203.13	64	3.981	19,692.31	13	0.256	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) X1040 - TACAN SHELTER UPGRADE	296,500.00	16	4.744	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.6) X1041 - TACAN ANTENNA UPGRADE	34,402.30	87	2.993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.7) X1042 - TACAN BEACON UPGRADE	212,148.94	47	9.971	199,666.67	6	1.198	207,250.00	8	1.658	211,000.00	8	1.688	-	-	-	211,000.00	8	1.688
Subtotal: Recurring Cost	-	-	31.574	-	-	1.454	-	-	1.658	-	-	1.688	-	-	-	-	-	1.688
Subtotal: Hardware - Landing Systems Cost	-	-	31.574	-	-	1.454	-	-	1.658	-	-	1.688	-	-	-	-	-	1.688
Support - Other Cost																		
2.1) X1800 - Landing Systems Integrated Logistics Support	-	-	1.187	-	-	0.684	-	-	0.693	-	-	0.674	-	-	-	-	-	0.674

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9						P-1 Line Item Number / Title: 2846 / Landing Systems						Item Number / Title [DODIC]: 1 / Landing Systems						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.2) X1830 - Landing Systems Production Engineering	-	-	2.351	-	-	1.631	-	-	1.396	-	-	1.443	-	-	-	-	-	1.443
2.3) X1840 - Landing Systems Quality Assurance	-	-	0.126	-	-	0.046	-	-	0.152	-	-	0.154	-	-	-	-	-	0.154
2.4) X1900 - Landing System Installs	-	-	0.774	-	-	0.855	-	-	0.368	-	-	0.197	-	-	-	-	-	0.197
2.5) Other Support ⁽¹⁾	-	-	32.913	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Other Cost	-	-	37.351	-	-	3.216	-	-	2.609	-	-	2.468	-	-	-	-	-	2.468
Gross/Weapon System Cost	-	-	68.925	-	-	4.670	-	-	4.267	-	-	4.156	-	-	-	-	-	4.156
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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 - Landing Systems Cost																		
Recurring Cost																		
1.1.1) X1030 PAR AVG Upgrade	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) X1031 PAR FOIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) X1032 PAR TURNTABLE UPGRADE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.4) X1033 - PAR CONFIGURATION UPGRADE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) X1040 - TACAN SHELTER UPGRADE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.6) X1041 - TACAN ANTENNA UPGRADE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.7) X1042 - TACAN BEACON UPGRADE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - Landing Systems Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Other Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9						P-1 Line Item Number / Title: 2846 / Landing Systems						Item Number / Title [DODIC]: 1 / Landing Systems					

ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
2.1) X1800 - Landing Systems Integrated Logistics Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) X1830 - Landing Systems Production Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.3) X1840 - Landing Systems Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4) X1900 - Landing System Installs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.5) Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Other Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Footnotes:

⁽¹⁾ Other Support includes Production Engineering, Integrated Logistics Support, Quality Assurance, and Install costs prior to FY2013.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2846 / Landing Systems	Modification Number / Title: 1 / AN/FPN-63 PAR TECH REFRESH (X1036)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1.774	8.816	8.635	3.498	-	3.498	9.920	9.865	9.045	9.196	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	1.774	8.816	8.635	3.498	-	3.498	9.920	9.865	9.045	9.196	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1.774	8.816	8.635	3.498	-	3.498	9.920	9.865	9.045	9.196	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Engineering Change Proposal (ECP) constitutes Block 2 and 3 of the Service Life Extension Program for the AN/FPN-63. It will extend the service life to at least 2025 by replacing obsolete receiver/transmitter assemblies, radar video processors, and controller displays with state-of-the-art assemblies/displays. This upgrade will also correct numerous human factors issues. This ECP will be accomplished on 36 deployed AN/FPN-63 Precision Approach Radar (PAR) Systems.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2846 / Landing Systems				Modification Number / Title: 1 / AN/FPN-63 PAR TECH REFRESH (X1036)					
Models of Systems Affected: Shore Sites				Modification Type: Reliability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/FPN-63 PAR TECH REFRESH (X1036)													
B Kits													
Recurring													
1.1.1) X1036 - PAR Tech Refresh - NonOrganic ⁽²⁾	- / -	3 / 7.564	3 / 7.200	1 / 2.400	- / -	1 / 2.400	4 / 8.864	3 / 7.893	3 / 7.490	3 / 7.635	16 / 30.600	36 / 79.646	
Subtotal: Recurring	- / 0.000	- / 7.564	- / 7.200	- / 2.400	- / -	- / 2.400	- / 8.864	- / 7.893	- / 7.490	- / 7.635	- / 30.600	- / 79.646	
Subtotal: AN/FPN-63 PAR TECH REFRESH (X1036)	- / -	3 / 7.564	3 / 7.200	1 / 2.400	- / -	1 / 2.400	4 / 8.864	3 / 7.893	3 / 7.490	3 / 7.635	16 / 30.600	36 / 79.646	
Subtotal: Procurement, All Modification Items	- / 0.000	- / 7.564	- / 7.200	- / 2.400	- / -	- / 2.400	- / 8.864	- / 7.893	- / 7.490	- / 7.635	- / 30.600	- / 79.646	
Support (All Modification Items)													
2.1) Integrated Logistics Support	- / 1.273	- / 0.120	- / 0.120	- / 0.120	- / -	- / 0.120	- / 0.172	- / 0.333	- / 0.228	- / 0.224	Continuing	Continuing	
2.2) Production Engineering	- / 0.471	- / 1.052	- / 0.690	- / 0.359	- / -	- / 0.359	- / 0.663	- / 0.814	- / 0.701	- / 0.688	Continuing	Continuing	
2.3) Quality Assurance	- / 0.030	- / 0.080	- / 0.030	- / 0.030	- / -	- / 0.030	- / 0.030	- / 0.030	- / 0.030	- / 0.031	Continuing	Continuing	
Subtotal: Support	- / 1.774	- / 1.252	- / 0.840	- / 0.509	- / -	- / 0.509	- / 0.865	- / 1.177	- / 0.959	- / 0.943	Continuing	Continuing	
Installation													
Modification Item 1 of 1: AN/FPN-63 PAR TECH REFRESH (X1036)	- / 0.000	- / -	- / 0.595	- / 0.589	- / -	- / 0.589	- / 0.191	- / 0.795	- / 0.596	- / 0.618	- / 4.418	- / 7.802	
Subtotal: Installation	- / 0.000	- / -	- / 0.595	- / 0.589	- / -	- / 0.589	- / 0.191	- / 0.795	- / 0.596	- / 0.618	- / 4.418	- / 7.802	
Total													
Total Cost (Procurement + Support + Installation)	1.774	8.816	8.635	3.498	-	3.498	9.920	9.865	9.045	9.196	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2846 / Landing Systems	Modification Number / Title: 1 / AN/FPN-63 PAR TECH REFRESH (X1036)

Modification Item 1 of 1: AN/FPN-63 PAR TECH REFRESH (X1036)

Manufacturer Information

Manufacturer Name: MOOG	Manufacturer Location: Salt Lake City, Utah
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 13

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Jan 2015	Jan 2016	Jan 2017				

Installation Information

Method of Implementation: Alteration Installation Team AIT:: Installation Name: Trandes

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	3 / 0.595	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.595
FY 2015	- / -	- / -	- / -	3 / 0.589	- / -	3 / 0.589	- / -	- / -	- / -	- / -	- / -	3 / 0.589
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.191	- / -	- / -	- / -	- / -	1 / 0.191
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.795	- / -	- / -	- / -	4 / 0.795
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.596	- / -	- / -	3 / 0.596
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.618	- / -	3 / 0.618
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.618	3 / 0.618
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 3.800	16 / 3.800
Total	- / -	- / -	3 / 0.595	3 / 0.589	- / -	3 / 0.589	1 / 0.191	4 / 0.795	3 / 0.596	3 / 0.618	19 / 4.418	36 / 7.802

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	1	1	1	-	1	1	1	-	-	1	-	-	1	2	1	-	1	1	1	-	1	1	1	19	36
Out	-	-	-	-	-	-	1	1	1	-	1	1	1	-	-	1	-	-	1	2	1	-	1	1	1	-	1	1	1	19	36

Footnotes:

⁽²⁾ Prior Year kit quantities decreased to zero and funding was realigned to TACAN Beacon Upgrade (X1042) and related support costs. Prior Year Integrated Logistic Support, Production Engineering and Quality Assurance are Advanced Planning costs for site surveys and evaluations.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2846 / Landing Systems					Modification Number / Title: 2 / PAR ILS Upgrade (X1037)			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	0.500	3.315	-	3.315	7.377	8.090	8.360	11.947	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	-	0.500	3.315	-	3.315	7.377	8.090	8.360	11.947	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	0.500	3.315	-	3.315	7.377	8.090	8.360	11.947	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The precision Approach Radar (PAR) is an aging system with multiple obsolete parts, and requires updating to ensure the system stays relevant through the year 2030 to bridge the gap in converting Naval aircraft to be Instrument Landing System (ILS) capable, a change precipitated by schedule changes to the Joint Precision Approach and Landing Systems (JPALS) program. Due to obsolescence, the AN/FPN-63 needs additional spare parts to meet the needs of the Navy. Currently, parts can only be obtained through cannabilization, and updated PARs are required to meet the needs of Naval Aviation until the ILS conversion is complete. ILS is a New Start in FY 2015 and will provide an unmanned Precision Approach capability which will greatly reduce associated manpower cost currently required.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2846 / Landing Systems				Modification Number / Title: 2 / PAR ILS Upgrade (X1037)				
Models of Systems Affected:				Modification Type:				Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: PAR ILS Upgrade (X1037)												
B Kits												
Recurring												
1.1.1) PAR ILS Upgrades - NonOrganic	- / -	- / -	- / -	3 / 1.500	- / -	3 / 1.500	4 / 2.000	4 / 2.060	4 / 2.122	7 / 3.787	- / -	22 / 11.469
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 1.500	- / -	- / 1.500	- / 2.000	- / 2.060	- / 2.122	- / 3.787	- / -	- / 11.469
Subtotal: PAR ILS Upgrade (X1037)	- / -	- / -	- / -	3 / 1.500	- / -	3 / 1.500	4 / 2.000	4 / 2.060	4 / 2.122	7 / 3.787	- / -	22 / 11.469
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 1.500	- / -	- / 1.500	- / 2.000	- / 2.060	- / 2.122	- / 3.787	- / -	- / 11.469
Support (All Modification Items)												
2.1) Logistics	- / -	- / -	- / -	- / 0.780	- / -	- / 0.780	- / 1.080	- / 1.149	- / 1.133	- / 1.675	Continuing	Continuing
2.2) Production Engineering ⁽³⁾	- / -	- / -	- / 0.500	- / 0.780	- / -	- / 0.780	- / 1.080	- / 1.149	- / 1.052	- / 2.314	Continuing	Continuing
2.3) Initial Training	- / -	- / -	- / -	- / 0.255	- / -	- / 0.255	- / 0.340	- / 0.350	- / 0.361	- / 0.367	Continuing	Continuing
Subtotal: Support	- / 0.000	- / -	- / 0.500	- / 1.815	- / -	- / 1.815	- / 2.500	- / 2.648	- / 2.546	- / 4.356	Continuing	Continuing
Installation												
Modification Item 1 of 1: PAR ILS Upgrade (X1037)	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.877	- / 3.382	- / 3.692	- / 3.804	- / 6.643	- / 20.398
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.877	- / 3.382	- / 3.692	- / 3.804	- / 6.643	- / 20.398
Total												
Total Cost (Procurement + Support + Installation)	0.000	-	0.500	3.315	-	3.315	7.377	8.090	8.360	11.947	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9										P-1 Line Item Number / Title: 2846 / Landing Systems										Modification Number / Title: 2 / PAR ILS Upgrade (X1037)											
Modification Item 1 of 1: PAR ILS Upgrade (X1037)																															
Manufacturer Information																															
Manufacturer Name: MOOG															Manufacturer Location: Salt Lake City, UT																
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 12																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates										Dec 2015																					
Delivery Dates										Dec 2016																					
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: PAR ILS Upgrades																															
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2014		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2015		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		3 / 2.877		- / -		- / -		- / -		- / -		- / -		3 / 2.877					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 3.382		- / -		- / -		- / -		- / -		4 / 3.382					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 3.692		- / -		- / -		- / -		4 / 3.692					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 3.804		- / -		- / -		4 / 3.804					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		7 / 6.643		- / -		7 / 6.643					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 2.877		4 / 3.382		4 / 3.692		4 / 3.804		7 / 6.643		22 / 20.398					
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	1	2	1	-	1	2	1	-	1	2	1	7	22
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	1	2	1	-	1	2	1	-	1	2	1	7	22
Footnotes:																															
⁽³⁾ FY15 funds (\$500K) are required for the Engineering Change Proposal (ECP) development and ramp-up work for the FY16 production efforts.																															

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2846 / Landing Systems					Modification Number / Title: 3 / TACAN Antenna Upgrade (X1043)			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	0.500	3.746	-	3.746	5.657	6.208	9.227	10.090	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	0.500	3.746	-	3.746	5.657	6.208	9.227	10.090	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	0.500	3.746	-	3.746	5.657	6.208	9.227	10.090	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The TACAN Antenna Upgrade program is a New Start for FY 2015 and will provide shore installations with a new antenna for TACAN systems. Justification: TACAN is a dated systems with multiple obsolete parts. Modernization of the TACAN antenna is required to reduce maintenance and improve life span in order to meet needs of the Fleet, and provide a stand-alone recovery system in the wake of the JPALS program restructure.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2846 / Landing Systems				Modification Number / Title: 3 / TACAN Antenna Upgrade (X1043)					
Models of Systems Affected: Shore Sites			Modification Type: Modernization					Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: TACAN Antenna Upgrade (X1043)													
B Kits													
Recurring													
1.1.1) TACAN Antenna Upgrade - NonOrganic	- / -	- / -	- / -	1 / 2.150	- / -	1 / 2.150	4 / 3.050	4 / 3.050	8 / 6.100	8 / 6.210	- / -	25 / 20.560	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 2.150	- / -	- / 2.150	- / 3.050	- / 3.050	- / 6.100	- / 6.210	- / -	- / 20.560	
Subtotal: TACAN Antenna Upgrade (X1043)	- / -	- / -	- / -	1 / 2.150	- / -	1 / 2.150	4 / 3.050	4 / 3.050	8 / 6.100	8 / 6.210	- / -	25 / 20.560	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 2.150	- / -	- / 2.150	- / 3.050	- / 3.050	- / 6.100	- / 6.210	- / -	- / 20.560	
Support (All Modification Items)													
2.1) Logistics	- / -	- / -	- / -	- / 0.860	- / -	- / 0.860	- / 0.578	- / 0.488	- / 0.488	- / 0.497	Continuing	Continuing	
2.2) Production Engineering ⁽⁴⁾	- / -	- / -	- / 0.500	- / 0.416	- / -	- / 0.416	- / 0.409	- / 0.443	- / 0.395	- / 1.134	Continuing	Continuing	
2.3) Quality Assurance	- / -	- / -	- / -	- / 0.320	- / -	- / 0.320	- / 0.320	- / 0.320	- / 0.320	- / 0.325	Continuing	Continuing	
Subtotal: Support	- / 0.000	- / -	- / 0.500	- / 1.596	- / -	- / 1.596	- / 1.307	- / 1.251	- / 1.203	- / 1.956	Continuing	Continuing	
Installation													
Modification Item 1 of 1: TACAN Antenna Upgrade (X1043)	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.300	- / 1.907	- / 1.924	- / 1.924	- / 4.416	- / 11.471	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.300	- / 1.907	- / 1.924	- / 1.924	- / 4.416	- / 11.471	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	0.500	3.746	-	3.746	5.657	6.208	9.227	10.090	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9										P-1 Line Item Number / Title: 2846 / Landing Systems										Modification Number / Title: 3 / TACAN Antenna Upgrade (X1043)											
Modification Item 1 of 1: TACAN Antenna Upgrade (X1043)																															
Manufacturer Information																															
Manufacturer Name: TBD															Manufacturer Location: TBD																
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 12																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates										Dec 2015				Dec 2016				Dec 2017				Dec 2018				Dec 2019					
Delivery Dates										Dec 2016				Dec 2017				Dec 2018				Dec 2019				Dec 2020					
Installation Information																															
Method of Implementation: AIT Installation:: Installation Name: TACAN Antenna Upgrade																															
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2014		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2015		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		1 / 1.300		- / -		- / -		- / -		- / -		- / -		1 / 1.300					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 1.907		- / -		- / -		- / -		- / -		4 / 1.907					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		4 / 1.924		- / -		- / -		- / -		4 / 1.924					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		8 / 1.924		- / -		- / -		8 / 1.924					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		8 / 4.416		- / -		8 / 4.416					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		- / -		- / -		- / -		- / -		1 / 1.300		4 / 1.907		4 / 1.924		8 / 1.924		8 / 4.416		- / -		25 / 11.471					
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2	1	-	1	2	1	-	3	3	2	8	25
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2	1	-	1	2	1	-	3	3	2	8	25
Footnotes:																															
⁽⁴⁾ FY15 funds (\$500K) are required for the Engineering Change Proposal (ECP) development and ramp-up work for the FY16 production efforts.																															

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment							P-1 Line Item Number / Title: 2851 / ID Systems					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements: 0604777N				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	282.305	34.818	28.543	29.676	-	29.676	23.006	27.001	28.964	29.572	93.922	577.807
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	282.305	34.818	28.543	29.676	-	29.676	23.006	27.001	28.964	29.572	93.922	577.807
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	282.305	34.818	28.543	29.676	-	29.676	23.006	27.001	28.964	29.572	93.922	577.807
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	0.045	0.050	0.067	-	0.067	0.055	0.055	0.040	-	-	0.312
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Identification Systems program funds procurements, installations, and certifications for the following systems: AN/UPX-37 and AN/UPX-41(C) Digital Interrogators (DI), AN/APX-118 and AN/APX-123 Common Digital Transponder (CXP), AN/UPX-29(V) Interrogator System (comprised of the Interrogator Set AN/UPX-24(V), OE-120()/UPX Antenna Group, and Mark XII or Mark XIIA equipment), and Mark XIIA Mode 5, Identification Friend Foe (IFF) support equipment, and AN/URN-25 Ship Tactical Air Navigation (TACAN). The Air Traffic Control (ATC) Radio Beacon System, Identification Friend or Foe (IFF), Mark XII/XIIA System (AIMS) is a DoD directed tri-service program designed to provide a universal air traffic control radar beacon system compatible with the National Airspace System Program. It provides a secure identification system for military use on all combatant ships, selected auxiliaries, patrol craft, and selected Coast Guard ships by allowing all friendly forces to identify each other and neutral forces. The Mark XII/XIIA system supports several missions such as anti-air warfare, aerial bombardment, and naval attack.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment					P-1 Line Item Number / Title: 2851 / ID Systems			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements: 0604777N		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Mark XII/ Mark XIIA Digital Int (MT031) (Reliability)	P-3a		- / 76.916	- / 0.508	- / -	- / -	- / -	- / -
2 / Mark XII/ Mark XIIA Common Digital Transponder (MT032) (Reliability)	P-3a		- / 50.158	- / 3.641	- / 3.044	- / 1.991	- / -	- / 1.991
3 / AN/UPX 24 (V) Mode S (MT035) (Capability Improvement)	P-3a		- / 21.878	- / 3.414	- / 3.177	- / 2.812	- / -	- / 2.812
4 / Mark XII Mode 5 (MT037) (Capability Improvement)	P-3a		- / 100.204	- / 19.700	- / 16.963	- / 19.348	- / -	- / 19.348
5 / TACAN System Upgrade (MT038) (Reliability)	P-3a		- / 15.872	- / 3.833	- / 2.531	- / 3.837	- / -	- / 3.837
6 / Mode S Digital Interrogator (MT040) (Capability Improvement)	P-3a		- / 17.277	- / 3.722	- / 2.828	- / 1.688	- / -	- / 1.688
Total Gross/Weapon System Cost			- / 282.305	- / 34.818	- / 28.543	- / 29.676	- / -	- / 29.676
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / Mark XII/ Mark XIIA Digital Int (MT031) (Reliability)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 77.424
2 / Mark XII/ Mark XIIA Common Digital Transponder (MT032) (Reliability)	P-3a		- / 1.848	- / 1.277	- / 1.325	- / -	- / -	- / 63.284
3 / AN/UPX 24 (V) Mode S (MT035) (Capability Improvement)	P-3a		- / 2.705	- / 5.005	- / 6.065	- / 11.216	- / 31.149	- / 87.421
4 / Mark XII Mode 5 (MT037) (Capability Improvement)	P-3a		- / 12.330	- / 12.245	- / 11.645	- / 3.874	- / -	- / 196.309
5 / TACAN System Upgrade (MT038) (Reliability)	P-3a		- / 3.856	- / 4.000	- / 4.072	- / 4.164	- / 34.549	- / 76.714
6 / Mode S Digital Interrogator (MT040) (Capability Improvement)	P-3a		- / 2.267	- / 4.474	- / 5.857	- / 10.318	- / 28.224	- / 76.655
Total Gross/Weapon System Cost			- / 23.006	- / 27.001	- / 28.964	- / 29.572	- / 93.922	- / 577.807
*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 add due to rounding.								
Justification: The purpose of the AN/UPX-37 and AN/UPX-41(C) Digital Interrogators (DI) and AN/APX-118 and AN/APX-123 Common Digital Transponder (CXP) program is to replace 20-25 year old hardware and software with reliability and maintenance enhancements through the use of Commercial Off The Shelf / Non Developmental Item COTS/NDI form/fit/function improvements. Incorporation of the Mark XIIA (Mode 5) capability occurred in FY08 and changes nomenclatures from AN/UPX-37 and AN/APX-118(V) to AN/UPX-41(C) and AN/APX-123(V), respectively. Incorporation of the Mark XIIA (Mode S) capability into the AN/UPX-41(C) DI is currently ongoing and will change the DI nomenclature from AN/UPX-41(C) to AN/UPX-45(C). AN/UPX-24(V) Field Changes will provide hardware updates to accommodate Mode 5 and Mode S functionality in fielded systems. AN/UPX-24(V) Mode S upgrades will provide improved shipboard combat identification by increasing the probability of identification of commercial and neutral aircraft. The AN/UPX-29(V) Interrogator System is deployed on high capability, state of the art surface platforms that require IFF operational performance beyond that provided by a standard Mark XII system for combat identification. Mark XIIA Mode 5 and Mode S provide improved secure cooperative combat identification throughout IFF. Mode 5 and Mode S are product improvements designed to be installed through engineering changes to digital Mark XII interrogators and transponders including AN/APX-118/123(V), AN/UPX-37/41(C), and AN/UPX-24(V). Tactical Air Navigation (TACAN) Beacon Upgrade funds a replacement of 1970s technology and eliminates pending parts obsolescence.								

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2851 / ID Systems	Modification Number / Title: 1 / Mark XII/ Mark XIIA Digital Int (MT031)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	76.916	0.508	-	-	-	-	-	-	-	-	-	77.424
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	76.916	0.508	-	-	-	-	-	-	-	-	-	77.424
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	76.916	0.508	-	-	-	-	-	-	-	-	-	77.424
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The current AN/UPX-27 is late 1960's technology and no longer meets operational availability requirements due to use beyond its intended life. The Navy incorporated the AN/UPX-37 to provide a more reliable system with the same functionality. Improved technology now drives the Navy requirement for the AN/UPX-41(C) that incorporates the Mark XIIA (Mode 5) capability. Mode S will be added as a growth capability. Inventory Objective of 503 is derived from the Naval Data Environment (NDE) database, the Ships & Aircraft Supplemental Data Table (SASDT) and ship/submarine Ship Program Manager (SPM) procurement plans and schedules. Incorporation of the Mark XIIA (Mode 5) capability occurred in FY08 and changed the nomenclature from AN/UPX-37 to AN/UPX-41(C). LRIP AN/UPX-41(C) units were installed and operated in legacy-only modes until successful completion of the Mode 5 OPEVAL (MT037) and the Full Rate Production decision. Full Rate Production was approved July 2012.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2851 / ID Systems				Modification Number / Title: 1 / Mark XII/ Mark XIIA Digital Int (MT031)					
Models of Systems Affected: AN/UPX-37 / AN/UPX-41(C)				Modification Type: Reliability				Related RDT&E PEs: 0604777N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Mark XII/ Mark XIIA Digital Int (MT031)													
B Kits													
Non-Recurring													
1.1.1) Equipment - NonOrganic ⁽¹⁾	503 / 48.154	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	503 / 48.154	
Subtotal: Non-Recurring	- / 48.154	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 48.154	
Subtotal: Mark XII/ Mark XIIA Digital Int (MT031)	503 / 48.154	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	503 / 48.154	
Subtotal: Procurement, All Modification Items	- / 48.154	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 48.154	
Support (All Modification Items)													
2.1) ILS	- / 4.179	- / 0.043	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.222	
2.2) PE	- / 10.344	- / 0.282	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.626	
2.3) Product Improvement	- / 2.311	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.311	
2.4) Acceptance, Test & Evaluation	- / 3.791	- / 0.042	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.833	
2.5) Initial Training	- / 0.144	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.144	
Subtotal: Support	- / 20.769	- / 0.367	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.136	
Installation													
Modification Item 1 of 1: Mark XII/ Mark XIIA Digital Int (MT031)	- / 7.993	- / 0.141	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.134	
Subtotal: Installation	- / 7.993	- / 0.141	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.134	
Total													
Total Cost (Procurement + Support + Installation)	76.916	0.508	-	-	-	-	-	-	-	-	-	77.424	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2851 / ID Systems	Modification Number / Title: 1 / Mark XII/ Mark XIIA Digital Int (MT031)

Modification Item 1 of 1: Mark XII/ Mark XIIA Digital Int (MT031)

Manufacturer Information

Manufacturer Name: BAE Systems LP	Manufacturer Location: Greenlawn, NY
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: AIT:: Installation Name: Equipment

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	479 / 7.993	2 / 0.141	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	481 / 8.134
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	479 / 7.993	2 / 0.141	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	481 / 8.134

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	479	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	481
Out	479	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	481

Footnotes:

(1) 9 Additional units were purchased in the prior years to provide to the Mode 5 program contractor as GFE. Units were used in FY04-09 for Mode 5 DT/OT and therefore not installed; 10 Additional units purchased in the prior years were first articles used for testing and will not be returned to inventory; 3 additional units were purchased in the prior years to provide to the Mode S (DI) program contractor as GFE and will not be installed on ships.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2851 / ID Systems	Modification Number / Title: 2 / Mark XII/ Mark XIIA Common Digital Transponder (MT032)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	50.158	3.641	3.044	1.991	-	1.991	1.848	1.277	1.325	-	-	63.284
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	50.158	3.641	3.044	1.991	-	1.991	1.848	1.277	1.325	-	-	63.284
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	50.158	3.641	3.044	1.991	-	1.991	1.848	1.277	1.325	-	-	63.284
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Current Mark XII transponder systems no longer meet operational reliability and maintainability (R&M) requirements due to use beyond their intended life cycle and they suffer a high cost of ownership due to parts obsolescence. Current surface ship Mark XII transponders will be replaced to continue incremental digital and R&M upgrades to the Mark XII IFF system. The common digital transponder uses an open architecture that allows for future growth, including Mode 5 (AN/APX-123(V)) and Mode S which was incorporated into the production line beginning with the FY 2005 procurement. Inventory Objective of 375 is derived from the Naval Data Environment (NDE) database, the Ships & Aircraft Supplemental Data Table (SASDT) and ship/submarine Ship Program Manager (SPM) procurement plans and schedules. Incorporation of the Mark XIIA (Mode 5) capability occurred in FY08 and changed the nomenclature from AN/APX-118(V) to AN/APX-123(V). LRIP AN/APX-123(V) units were installed and operated in legacy-only modes until successful completion of the Mode 5 OPEVAL (MT037) and Full Rate Production decision. Full Rate Production was approved July 2012.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9			P-1 Line Item Number / Title: 2851 / ID Systems					Modification Number / Title: 2 / Mark XII/ Mark XIIA Common Digital Transponder (MT032)				
Models of Systems Affected: AN/APX-118/AN/APX-123(V)			Modification Type: Reliability					Related RDT&E PEs: 0604777N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: Mark XII/ Mark XIIA Common Digital Transponder (MT032)												
B Kits												
Recurring												
1.1.1) Equipment - NonOrganic ⁽²⁾	333 / 17.903	17 / 1.206	15 / 0.973	5 / 0.453	- / -	5 / 0.453	- / 0.051	5 / 0.292	- / 0.134	- / -	- / -	375 / 21.012
1.1.2) Equipment "A" - Organic	- / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.020
Subtotal: Recurring	- / 17.923	- / 1.206	- / 0.973	- / 0.453	- / -	- / 0.453	- / 0.051	- / 0.292	- / 0.134	- / -	- / -	- / 21.032
Subtotal: Mark XII/ Mark XIIA Common Digital Transponder (MT032)	333 / 17.923	17 / 1.206	15 / 0.973	5 / 0.453	- / -	5 / 0.453	- / 0.051	5 / 0.292	- / 0.134	- / -	- / -	375 / 21.032
Subtotal: Procurement, All Modification Items	- / 17.923	- / 1.206	- / 0.973	- / 0.453	- / -	- / 0.453	- / 0.051	- / 0.292	- / 0.134	- / -	- / -	- / 21.032
Support (All Modification Items)												
2.1) ILS	- / 2.629	- / 0.100	- / 0.063	- / 0.036	- / -	- / 0.036	- / 0.018	- / 0.018	- / 0.019	- / -	- / -	- / 2.883
2.2) PE ⁽³⁾	- / 11.837	- / 1.166	- / 1.497	- / 1.134	- / -	- / 1.134	- / 1.374	- / 0.820	- / 0.838	- / -	- / -	- / 18.666
2.3) Product Improvement	- / 4.632	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.632
2.4) Acceptance, Test & Evaluation	- / 2.562	- / 0.150	- / 0.095	- / 0.054	- / -	- / 0.054	- / 0.028	- / 0.027	- / 0.029	- / -	- / -	- / 2.945
2.5) Depot	- / 0.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.010
2.6) Initial Training	- / 0.822	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.822
Subtotal: Support	- / 22.492	- / 1.416	- / 1.655	- / 1.224	- / -	- / 1.224	- / 1.420	- / 0.865	- / 0.886	- / -	- / -	- / 29.958
Installation												
Modification Item 1 of 1: Mark XII/ Mark XIIA Common Digital Transponder (MT032)	- / 9.743	- / 1.019	- / 0.416	- / 0.314	- / -	- / 0.314	- / 0.377	- / 0.120	- / 0.305	- / -	- / -	- / 12.294
Subtotal: Installation	- / 9.743	- / 1.019	- / 0.416	- / 0.314	- / -	- / 0.314	- / 0.377	- / 0.120	- / 0.305	- / -	- / -	- / 12.294
Total												
Total Cost (Procurement + Support + Installation)	50.158	3.641	3.044	1.991	-	1.991	1.848	1.277	1.325	-	-	63.284

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9										P-1 Line Item Number / Title: 2851 / ID Systems										Modification Number / Title: 2 / Mark XII/ Mark XIIA Common Digital Transponder (MT032)											
Modification Item 1 of 1: Mark XII/ Mark XIIA Common Digital Transponder (MT032)																															
Manufacturer Information																															
Manufacturer Name: BAE Systems LP ⁽⁴⁾														Manufacturer Location: Greenlawn, NY																	
Administrative Leadtime <i>(in Months)</i> : 6														Production Leadtime <i>(in Months)</i> : 24																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Mar 2014				Mar 2015				Mar 2016								Mar 2018													
Delivery Dates		Mar 2016				Mar 2017				Mar 2018								Mar 2020													
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Equipment																															
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		306 / 9.743		18 / 1.019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		324 / 10.762					
FY 2014		- / -		- / -		14 / 0.416		3 / 0.078		- / -		3 / 0.078		- / -		- / -		- / -		- / -		- / -		- / -		17 / 0.494					
FY 2015		- / -		- / -		- / -		9 / 0.236		- / -		9 / 0.236		6 / 0.251		- / -		- / -		- / -		- / -		- / -		15 / 0.487					
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		3 / 0.126		2 / 0.120		- / -		- / -		- / -		- / -		5 / 0.246					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		5 / 0.305		- / -		- / -		- / -		5 / 0.305					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		306 / 9.743		18 / 1.019		14 / 0.416		12 / 0.314		- / -		12 / 0.314		9 / 0.377		2 / 0.120		5 / 0.305		- / -		- / -		- / -		366 / 12.294					
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	306	3	6	6	3	-	-	7	7	3	3	3	3	7	1	1	-	2	-	-	-	2	1	1	1	-	-	-	-	-	366
Out	306	3	6	6	3	-	-	7	7	3	3	3	3	7	1	1	-	2	-	-	-	2	1	1	1	-	-	-	-	-	366
Footnotes: ⁽²⁾ Hardware unit costs include ancillary equipment throughout the FYDP. Unit costs fluctuate from year to year based on the number of kits being procured and the necessary ancillary hardware for the different class ships that are getting the units installed the following year. 9 additional units were purchased in the prior years to provide to the Mode 5 program contractor as GFE. FY17 and FY19 shows no procurement quantities, but funding required for ancillary hardware in those years. The (5) units we are procuring in FY16 are for the FY17 and FY18 install. Deliveries occur for a period of 12 to 24 months after contract award. Extension of budget into FY19 is due to change in overall ship inventory increase.																															

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2851 / ID Systems	Modification Number / Title: 2 / Mark XII/ Mark XIIA Common Digital Transponder (MT032)
(3) Class and Baselines of ships are a big factor on the required Production Engineering (PE) needed to accomplish the IFF capability. Cutting in a new software/hardware configuration due to obsolescence issues. (4) Production lead time ranges from 12 -24 months.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2851 / ID Systems					Modification Number / Title: 3 / AN/UPX 24 (V) Mode S (MT035)			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	21.878	3.414	3.177	2.812	-	2.812	2.705	5.005	6.065	11.216	31.149	87.421
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	21.878	3.414	3.177	2.812	-	2.812	2.705	5.005	6.065	11.216	31.149	87.421
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	21.878	3.414	3.177	2.812	-	2.812	2.705	5.005	6.065	11.216	31.149	87.421
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Incorporation of a Mode S capability in the AN/UPX-24(V) to include an interface with a ship's Combat Systems. Inventory Objective of 123 is derived from the Naval Data Environment (NDE) database, the Ships & Aircraft Supplemental Data Table (SASDT) and ship/submarine Ship Program Manager (SPM) procurement plans and schedules.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2851 / ID Systems				Modification Number / Title: 3 / AN/UPX 24 (V) Mode S (MT035)				
Models of Systems Affected: AN/UPX-24(V)			Modification Type: Capability Improvement					Related RDT&E PEs: 0604777N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: AN/UPX 24 (V) Mode S (MT035)												
B Kits												
Non-Recurring												
1.1.1) Equipment - NonOrganic ⁽⁵⁾	8 / 0.780	1 / 0.081	2 / 0.188	2 / 0.196	- / -	2 / 0.196	2 / 0.192	7 / 0.686	10 / 1.000	19 / 1.938	72 / 7.708	123 / 12.769
Subtotal: Non-Recurring	- / 0.780	- / 0.081	- / 0.188	- / 0.196	- / -	- / 0.196	- / 0.192	- / 0.686	- / 1.000	- / 1.938	- / 7.708	- / 12.769
Subtotal: AN/UPX 24 (V) Mode S (MT035)	8 / 0.780	1 / 0.081	2 / 0.188	2 / 0.196	- / -	2 / 0.196	2 / 0.192	7 / 0.686	10 / 1.000	19 / 1.938	72 / 7.708	123 / 12.769
Subtotal: Procurement, All Modification Items	- / 0.780	- / 0.081	- / 0.188	- / 0.196	- / -	- / 0.196	- / 0.192	- / 0.686	- / 1.000	- / 1.938	- / 7.708	- / 12.769
Support (All Modification Items)												
2.1) ILS	- / 2.074	- / 0.445	- / -	- / 0.100	- / -	- / 0.100	- / 0.249	- / 0.512	- / 0.472	- / 0.686	- / 3.543	- / 8.081
2.2) PE ⁽⁶⁾	- / 4.457	- / 0.778	- / 0.599	- / 0.652	- / -	- / 0.652	- / 1.566	- / 3.705	- / 4.251	- / 8.053	- / 14.666	- / 38.727
2.3) Product Improvement	- / 13.484	- / 1.501	- / 2.024	- / 1.774	- / -	- / 1.774	- / 0.607	- / -	- / -	- / -	- / -	- / 19.390
2.4) Acceptance, Test & Evaluation	- / 0.763	- / 0.373	- / 0.321	- / -	- / -	- / -	- / -	- / 0.010	- / 0.036	- / 0.052	- / 0.500	- / 2.055
2.5) Depot	- / 0.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.046
2.6) Initial Training	- / 0.274	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.274
Subtotal: Support	- / 21.098	- / 3.097	- / 2.944	- / 2.526	- / -	- / 2.526	- / 2.422	- / 4.227	- / 4.759	- / 8.791	- / 18.709	- / 68.573
Installation												
Modification Item 1 of 1: AN/UPX 24 (V) Mode S (MT035)	- / 0.000	- / 0.236	- / 0.045	- / 0.090	- / -	- / 0.090	- / 0.091	- / 0.092	- / 0.306	- / 0.487	- / 4.732	- / 6.079
Subtotal: Installation	- / 0.000	- / 0.236	- / 0.045	- / 0.090	- / -	- / 0.090	- / 0.091	- / 0.092	- / 0.306	- / 0.487	- / 4.732	- / 6.079
Total												
Total Cost (Procurement + Support + Installation)	21.878	3.414	3.177	2.812	-	2.812	2.705	5.005	6.065	11.216	31.149	87.421

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9		P-1 Line Item Number / Title: 2851 / ID Systems			Modification Number / Title: 3 / AN/UPX 24 (V) Mode S (MT035)

Modification Item 1 of 1: AN/UPX 24 (V) Mode S (MT035)

Manufacturer Information

Manufacturer Name: NAWCAD 4.11.2.1	Manufacturer Location: St. Inigoes, MD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2019	Dec 2020
Delivery Dates	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2020	Dec 2021

Installation Information

Method of Implementation: AIT:: Installation Name: Equipment

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	8 / 0.236	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.236
FY 2014	- / -	- / -	1 / 0.045	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.045
FY 2015	- / -	- / -	- / -	2 / 0.090	- / -	2 / 0.090	- / -	- / -	- / -	- / -	- / -	2 / 0.090
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.091	- / -	- / -	- / -	- / -	2 / 0.091
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.092	- / -	- / -	- / -	2 / 0.092
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 0.306	- / -	- / -	7 / 0.306
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.487	- / -	10 / 0.487
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.988	19 / 0.988
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 3.744	72 / 3.744
Total	- / -	8 / 0.236	1 / 0.045	2 / 0.090	- / -	2 / 0.090	2 / 0.091	2 / 0.092	7 / 0.306	10 / 0.487	91 / 4.732	123 / 6.079

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	1	3	4	-	1	-	-	-	2	-	-	-	1	1	-	-	1	1	-	-	2	2	3	-	2	4	4	91	123
Out	-	-	1	3	4	-	1	-	-	-	2	-	-	-	1	1	-	-	1	1	-	-	2	2	3	-	2	4	4	91	123

Footnotes:

⁽⁵⁾ Delayed AN/UPX-24(V) Mode S program to synchronize with the Mode S Digital Interrogator (DI) program. Program delayed due to Federal Aviation Administration (FAA) direction for Department of Defense (DOD) to develop Concept of Operations (CoNOPs) for Mode S implementation. Decrease in quantities due to ship decommissions and requirement change.

⁽⁶⁾ Production Engineering fluctuates throughout the FYDP as the program transitions from installs on small number of ship classes with limited combat system configurations some years to installs on multiple ship classes with various additional combat system configurations other years.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9	P-1 Line Item Number / Title: 2851 / ID Systems	Modification Number / Title: 4 / Mark XII Mode 5 (MT037)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	100.204	19.700	16.963	19.348	-	19.348	12.330	12.245	11.645	3.874	-	196.309
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	100.204	19.700	16.963	19.348	-	19.348	12.330	12.245	11.645	3.874	-	196.309
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	100.204	19.700	16.963	19.348	-	19.348	12.330	12.245	11.645	3.874	-	196.309
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Mark XIIA Mode 5 provides improved secure cooperative combat identification throughout IFF. Mode 5 is a product improvement which is designed to be installed via engineering changes to digital MarkXII interrogators and transponders including, AN/APX-118/123(V), AN/UPX-37/41(C), and AN/UPX-24(V). Procurements will include Cryptography, Long Lead Items, Low-Rate Initial Production (LRIP) Units, Full Rate Production units, Support/Test Equipment, and associated hardware and software changes for Fleet Modernization Plan (FMP) and non-FMP installations. Mode 5 is designed to be installed in all Navy ships which are currently Mode 4 IFF capable. Milestone C and LRIP was approved in July 2006 and Full Rate Production was approved in July 2012. In March 2007, Joint Requirements Oversight Council Memorandum (JROCM 047-07) endorsed a Mode 5 Joint Initial Operational Capability (IOC) in FY 2014 and Joint Full Operational Capability (FOC) in FY 2020.

Procurement and installs differ by 100 due to Naval Special Warfare Forces installing their own units.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2851 / ID Systems				Modification Number / Title: 4 / Mark XII Mode 5 (MT037)					
Models of Systems Affected: AN/APX-118/123(V), AN/UPX-37/41(C), AN/UPX-24(V)				Modification Type: Capability Improvement				Related RDT&E PEs: 0604777N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Mark XII Mode 5 (MT037)													
B Kits													
Non-Recurring													
1.1.1) Equipment - Organic	- / 3.775	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.775	
1.1.2) Mode 5 CXP Systems/Kits - NonOrganic ⁽⁷⁾	265 / 8.344	83 / 1.886	21 / 0.976	36 / 1.915	- / -	36 / 1.915	11 / 0.173	22 / 0.825	2 / 0.033	- / -	- / -	440 / 14.152	
1.1.3) Mode 5 UPX-24(V) Kits - NonOrganic	67 / 5.370	11 / 0.777	8 / 0.565	5 / 0.527	- / -	5 / 0.527	5 / 0.537	10 / 0.837	4 / 0.480	- / -	- / -	110 / 9.093	
1.1.4) Mode 5 DI Systems/ Kits - NonOrganic	170 / 9.914	33 / 2.056	27 / 2.210	14 / 1.031	- / -	14 / 1.031	9 / 0.675	29 / 2.217	8 / 0.623	- / -	- / -	290 / 18.726	
Subtotal: Non-Recurring	- / 27.403	- / 4.719	- / 3.751	- / 3.473	- / -	- / 3.473	- / 1.385	- / 3.879	- / 1.136	- / -	- / -	- / 45.746	
Subtotal: Mark XII Mode 5 (MT037)	502 / 27.403	127 / 4.719	56 / 3.751	55 / 3.473	- / -	55 / 3.473	25 / 1.385	61 / 3.879	14 / 1.136	- / -	- / -	840 / 45.746	
Subtotal: Procurement, All Modification Items	- / 27.403	- / 4.719	- / 3.751	- / 3.473	- / -	- / 3.473	- / 1.385	- / 3.879	- / 1.136	- / -	- / -	- / 45.746	
Support (All Modification Items)													
2.1) Support Equipment	- / 8.463	- / 0.550	- / 0.546	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.559	
2.2) ILS ⁽⁸⁾	- / 5.471	- / 0.819	- / 0.300	- / 0.772	- / -	- / 0.772	- / 0.497	- / 0.453	- / 0.457	- / 0.187	- / -	- / 8.956	
2.3) PE ⁽⁹⁾	- / 32.343	- / 5.315	- / 7.178	- / 6.329	- / -	- / 6.329	- / 6.232	- / 4.248	- / 4.203	- / 2.210	- / -	- / 68.058	
2.4) Product Improvement	- / 5.477	- / 1.109	- / 0.255	- / 1.320	- / -	- / 1.320	- / 0.347	- / 0.450	- / 0.419	- / 0.089	- / -	- / 9.466	
2.5) Acceptance, Test & Evaluation ⁽¹⁰⁾	- / 3.370	- / 0.850	- / 1.618	- / 0.657	- / -	- / 0.657	- / 0.359	- / 0.594	- / -	- / -	- / -	- / 7.448	
2.6) Initial Training	- / 0.517	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.517	
Subtotal: Support	- / 55.641	- / 8.643	- / 9.897	- / 9.078	- / -	- / 9.078	- / 7.435	- / 5.745	- / 5.079	- / 2.486	- / -	- / 104.004	
Installation													
Modification Item 1 of 1: Mark XII Mode 5 (MT037)	- / 17.160	- / 6.338	- / 3.315	- / 6.797	- / -	- / 6.797	- / 3.510	- / 2.621	- / 5.430	- / 1.388	- / -	- / 46.559	
Subtotal: Installation	- / 17.160	- / 6.338	- / 3.315	- / 6.797	- / -	- / 6.797	- / 3.510	- / 2.621	- / 5.430	- / 1.388	- / -	- / 46.559	
Total													
Total Cost (Procurement + Support + Installation)	100.204	19.700	16.963	19.348	-	19.348	12.330	12.245	11.645	3.874	-	196.309	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9										P-1 Line Item Number / Title: 2851 / ID Systems										Modification Number / Title: 4 / Mark XII Mode 5 (MT037)												
Modification Item 1 of 1: Mark XII Mode 5 (MT037)																																
Manufacturer Information																																
Manufacturer Name: BAE Systems LP ⁽¹¹⁾														Manufacturer Location: Greenlawn, NY																		
Administrative Leadtime (in Months): 3														Production Leadtime (in Months): 12																		
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020						
Contract Dates		Dec 2013				Dec 2014				Dec 2015																						
Delivery Dates		Dec 2015				Dec 2016				Dec 2017																						
Installation Information																																
Method of Implementation: [none specified]:: Installation Name: Mode 5 CXP Systems/Kits																																
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		144 / 6.759		40 / 0.199		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		184 / 6.958						
FY 2014		- / -		- / -		30 / 1.745		40 / 2.772		- / -		40 / 2.772		- / -		- / -		- / -		- / -		- / -		- / -		70 / 4.517						
FY 2015		- / -		- / -		- / -		14 / 0.658		- / -		14 / 0.658		4 / 0.230		- / -		- / -		- / -		- / -		- / -		18 / 0.888						
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		29 / 1.669		7 / 0.471		- / -		- / -		- / -		- / -		36 / 2.140						
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		6 / 0.403		5 / 0.388		- / -		- / -		- / -		11 / 0.791						
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		19 / 1.474		- / -		- / -		- / -		19 / 1.474						
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 0.278		- / -		- / -		2 / 0.278						
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
Total		144 / 6.759		40 / 0.199		30 / 1.745		54 / 3.430		- / -		54 / 3.430		33 / 1.899		13 / 0.874		24 / 1.862		2 / 0.278		- / -		- / -		340 / 17.046						
Installation Schedule																																
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	144	10	10	10	10	7	7	8	8	14	15	14	11	9	9	7	8	9	2	2	-	8	7	5	4	-	1	1	-	-	-	340
Out	144	10	10	10	10	7	7	8	8	14	15	14	11	9	9	7	8	9	2	2	-	8	7	5	4	-	1	1	-	-	-	340
Method of Implementation: [none specified]:: Installation Name: Mode 5 UPX-24(V) Kits																																
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		51 / 3.304		13 / 0.278		3 / 0.174		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		67 / 3.756						
FY 2014		- / -		- / -		4 / 0.233		7 / 0.445		- / -		7 / 0.445		- / -		- / -		- / -		- / -		- / -		- / -		11 / 0.678						

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9					P-1 Line Item Number / Title: 2851 / ID Systems					Modification Number / Title: 4 / Mark XII Mode 5 (MT037)			

Modification Item 1 of 1: Mark XII Mode 5 (MT037)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Mode 5 UPX-24(V) Kits

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	6 / 0.381	- / -	6 / 0.381	2 / 0.115	- / -	- / -	- / -	- / -	8 / 0.496
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.173	2 / 0.134	- / -	- / -	- / -	5 / 0.307
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.269	1 / 0.078	- / -	- / -	5 / 0.347
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.775	- / -	- / -	10 / 0.775
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.370	- / -	4 / 0.370
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	51 / 3.304	13 / 0.278	7 / 0.407	13 / 0.826	- / -	13 / 0.826	5 / 0.288	6 / 0.403	11 / 0.853	4 / 0.370	- / -	110 / 6.729

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	51	5	5	3	-	5	1	1	-	4	4	4	1	3	1	1	-	4	2	-	-	3	2	3	3	2	2	-	-	-	110
Out	51	5	5	3	-	5	1	1	-	4	4	4	1	3	1	1	-	4	2	-	-	3	2	3	3	2	2	-	-	-	110

Method of Implementation: [none specified]:: Installation Name: Mode 5 DI Systems/ Kits

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	110 / 7.097	34 / 5.861	20 / 1.163	6 / 0.381	- / 0.000	6 / 0.381	- / -	- / -	- / -	- / -	- / -	170 / 14.502
FY 2014	- / -	- / -	- / -	33 / 2.096	- / -	33 / 2.096	- / -	- / -	- / -	- / -	- / -	33 / 2.096
FY 2015	- / -	- / -	- / -	1 / 0.064	- / -	1 / 0.064	23 / 1.323	3 / 0.202	- / -	- / -	- / -	27 / 1.589
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.940	- / -	- / -	- / -	14 / 0.940
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.202	6 / 0.465	- / -	- / -	9 / 0.667
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 2.250	- / -	- / -	29 / 2.250
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.740	- / -	8 / 0.740
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	110 / 7.097	34 / 5.861	20 / 1.163	40 / 2.541	- / -	40 / 2.541	23 / 1.323	20 / 1.344	35 / 2.715	8 / 0.740	- / -	290 / 22.784

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Exhibit P-3a, Individual Modification: PB 2016 Navy																						Date: February 2015											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9										P-1 Line Item Number / Title: 2851 / ID Systems										Modification Number / Title: 4 / Mark XII Mode 5 (MT037)													
Modification Item 1 of 1: Mark XII Mode 5 (MT037)																																	
Installation Information																																	
Method of Implementation: [none specified]:: Installation Name: Mode 5 DI Systems/ Kits																																	
Installation Schedule																																	
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020							
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot		
In	110	9	9	9	7	5	5	5	5	12	11	8	9	5	6	6	6	6	6	4	4	10	10	7	8	2	2	2	2	-	290		
Out	110	9	9	9	7	5	5	5	5	12	11	8	9	5	6	6	6	6	6	4	4	10	10	7	8	2	2	2	2	-	290		

Footnotes:

⁽⁷⁾ Hardware unit costs include ancillary equipment throughout the FYDP. Unit costs fluctuate from year to year based on the number of kits being procured and the necessary ancillary hardware for the different class ships that are getting the units installed the following year. Increase in quantities is due to adding back in ships that did not decommission and requirement change for various platforms. Delta between procurements and installations is due to the (procurement only) Naval Special Warfare units. The Support Equipment (SE) line consists of buying USM-719 (Test Sets) and KIV-78 (crypto appliques). Deliveries occur for a period of 12 to 24 months after contract award. Install of equipment does not occur until all 3 pieces of equipment have been delivered from manufacturer.

⁽⁸⁾ Integrated Logistics Support (ILS) costs between fiscal years exceed inflation because they are not solely determined by number of procurements. This cost element is impacted by the amount of documentation and logistics work needed because of the differences between ship classes.

⁽⁹⁾ Production Engineering (PE) increase in FY15 is based on necessary requirements needed for the upcoming installations in the following year. Class and Baselines of ships are a big factor on the required PE needed to accomplish the IFF capability. Cutting in a new software/hardware configuration due to obsolescence issues.

⁽¹⁰⁾ Acceptance Test & Evaluation (AT&E) costs between fiscal years exceed inflation because they are not solely determined by number of procurements. This cost element is impacted by the amount of documentation and logistics work needed because of the differences between ship classes.

⁽¹¹⁾ Production lead time ranges from 12 -24 months. Deliveries from the Original Equipment Manufacturer (OEM) commence 12 months after contract award and conclude 24 months after award (the delivery date on the P-3a is the date of the first delivery, not the date when all items are delivered); installations then occur within the allotted 12 months from when each kit is delivered. Once delivered, additional efforts are required by the In-Service Engineering Activity to produce ready for issue units from kits, and build and test complete systems with ancillary hardware prior to fleet installs.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2851 / ID Systems					Modification Number / Title: 5 / TACAN System Upgrade (MT038)			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	15.872	3.833	2.531	3.837	-	3.837	3.856	4.000	4.072	4.164	34.549	76.714
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	15.872	3.833	2.531	3.837	-	3.837	3.856	4.000	4.072	4.164	34.549	76.714
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	15.872	3.833	2.531	3.837	-	3.837	3.856	4.000	4.072	4.164	34.549	76.714
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Ship Tactical Air Navigation (TACAN) system upgrade. Upgrades will include digital/COTS upgrade to 1970's technology TACAN beacon and reduce parts obsolescence. Inventory Objective of 206 is derived from the Naval Data Environment (NDE) database, the Ships & Aircraft Supplemental Data Table (SASDT), ship/submarine Ship Program Manager (SPM) procurement plans and schedules and JPALS projected FOC.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2851 / ID Systems				Modification Number / Title: 5 / TACAN System Upgrade (MT038)					
Models of Systems Affected: AN/URN-25				Modification Type: Reliability				Related RDT&E PEs: 0604777N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: TACAN System Upgrade (MT038)													
B Kits													
Non-Recurring													
1.1.1) Equipment - NonOrganic ⁽¹²⁾	28 / 6.561	17 / 2.914	7 / 1.370	14 / 3.150	- / -	14 / 3.150	14 / 2.890	14 / 2.997	14 / 3.063	14 / 3.041	84 / 22.662	206 / 48.648	
Subtotal: Non-Recurring	- / 6.561	- / 2.914	- / 1.370	- / 3.150	- / -	- / 3.150	- / 2.890	- / 2.997	- / 3.063	- / 3.041	- / 22.662	- / 48.648	
Subtotal: TACAN System Upgrade (MT038)	28 / 6.561	17 / 2.914	7 / 1.370	14 / 3.150	- / -	14 / 3.150	14 / 2.890	14 / 2.997	14 / 3.063	14 / 3.041	84 / 22.662	206 / 48.648	
Subtotal: Procurement, All Modification Items	- / 6.561	- / 2.914	- / 1.370	- / 3.150	- / -	- / 3.150	- / 2.890	- / 2.997	- / 3.063	- / 3.041	- / 22.662	- / 48.648	
Support (All Modification Items)													
2.1) ILS	- / 0.522	- / 0.031	- / 0.031	- / 0.031	- / -	- / 0.031	- / 0.052	- / 0.052	- / 0.052	- / 0.035	- / 0.131	- / 0.937	
2.2) PE	- / 7.690	- / 0.308	- / 0.110	- / 0.316	- / -	- / 0.316	- / 0.321	- / 0.327	- / 0.333	- / 0.338	- / 3.698	- / 13.441	
2.3) Acceptance, Test & Evaluation	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.117	- / 0.217	
2.4) Initial Training	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.087	- / 0.087	
Subtotal: Support	- / 8.312	- / 0.339	- / 0.141	- / 0.347	- / -	- / 0.347	- / 0.373	- / 0.379	- / 0.385	- / 0.373	- / 4.033	- / 14.682	
Installation													
Modification Item 1 of 1: TACAN System Upgrade (MT038)	- / 0.999	- / 0.580	- / 1.020	- / 0.340	- / -	- / 0.340	- / 0.593	- / 0.624	- / 0.624	- / 0.750	- / 7.854	- / 13.384	
Subtotal: Installation	- / 0.999	- / 0.580	- / 1.020	- / 0.340	- / -	- / 0.340	- / 0.593	- / 0.624	- / 0.624	- / 0.750	- / 7.854	- / 13.384	
Total													
Total Cost (Procurement + Support + Installation)	15.872	3.833	2.531	3.837	-	3.837	3.856	4.000	4.072	4.164	34.549	76.714	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9		P-1 Line Item Number / Title: 2851 / ID Systems			Modification Number / Title: 5 / TACAN System Upgrade (MT038)		

Modification Item 1 of 1: TACAN System Upgrade (MT038)

Manufacturer Information

Manufacturer Name: Moog, Inc				Manufacturer Location: Salt Lake City, Utah			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 5			

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Nov 2013	Nov 2014	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019
Delivery Dates	Apr 2014	Apr 2015	Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020

Installation Information

Method of Implementation: AIT:: Installation Name: Equipment

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	17 / 0.999	11 / 0.580	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 1.579
FY 2014	- / -	- / -	17 / 1.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 1.020
FY 2015	- / -	- / -	- / -	7 / 0.340	- / -	7 / 0.340	- / -	- / -	- / -	- / -	- / -	7 / 0.340
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.593	- / -	- / -	- / -	- / -	14 / 0.593
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.624	- / -	- / -	- / -	14 / 0.624
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.624	- / -	- / -	14 / 0.624
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.750	- / -	14 / 0.750
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.824	14 / 0.824
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	84 / 7.030	84 / 7.030
Total	17 / 0.999	11 / 0.580	17 / 1.020	7 / 0.340	- / -	7 / 0.340	14 / 0.593	14 / 0.624	14 / 0.624	14 / 0.750	98 / 7.854	206 / 13.384

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	17	2	3	3	3	4	4	4	5	3	4	-	-	3	3	4	4	3	3	4	4	3	3	4	4	3	3	4	4	98	206
Out	17	2	3	3	3	4	4	4	5	3	4	-	-	3	3	4	4	3	3	4	4	3	3	4	4	3	3	4	4	98	206

Footnotes:

(12) The inventory objective increased as a result of analysis of requirements conducted as a result of the Navy's Precision Approach and Landing Capability (PALC) changes and an acceleration of the AN/URN-32 procurements that are needed to address obsolescence issues in the aging AN/URN-25.

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2851 / ID Systems						Modification Number / Title: 6 / Mode S Digital Interrogator (MT040)		
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	17.277	3.722	2.828	1.688	-	1.688	2.267	4.474	5.857	10.318	28.224	76.655
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	17.277	3.722	2.828	1.688	-	1.688	2.267	4.474	5.857	10.318	28.224	76.655
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	17.277	3.722	2.828	1.688	-	1.688	2.267	4.474	5.857	10.318	28.224	76.655
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Adds Mode Select (S) Beacon System commercial aircraft interrogation capability to IFF shipboard Digital Interrogators (DIs). Incorporation of a Mode S capability in the AN/UPX-41(C) will result in a nomenclature change to AN/UPX-45(C). In some installations such as Aircraft Carriers, incorporation of the Mode S capability in the DI will include an interface with a ship's Air Traffic Control System. The Mode S provides improved aircraft surveillance and communications necessary to support air traffic control automation in the dense traffic environments. Mode S provides more accurate aircraft positional information and minimizes interference by discrete interrogation of each Mode S transponder-equipped aircraft and improved processing of aircraft replies. In addition, Mode S provides the medium for a digital data link, which can be used to exchange information between aircraft and various air traffic control functions and weather databases. Inventory Objective of 311 is derived from the Naval Data Environment (NDE) database, the Ships & Aircraft Supplemental Data Table (SASDT) and ship/submarine Ship Program Manager (SPM) procurement plans and schedules.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2851 / ID Systems				Modification Number / Title: 6 / Mode S Digital Interrogator (MT040)					
Models of Systems Affected: AN/UPX-37/ ANUPX-41(V)				Modification Type: Capability Improvement				Related RDT&E PEs: 0604777N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Mode S Digital Interrogator (MT040)													
B Kits													
Non-Recurring													
1.1.1) Equipment - NonOrganic ⁽¹³⁾	- / -	13 / 0.140	1 / 0.012	1 / 0.013	- / -	1 / 0.013	4 / 0.045	16 / 0.184	30 / 0.352	64 / 0.765	182 / 2.280	311 / 3.791	
Subtotal: Non-Recurring	- / 0.000	- / 0.140	- / 0.012	- / 0.013	- / -	- / 0.013	- / 0.045	- / 0.184	- / 0.352	- / 0.765	- / 2.280	- / 3.791	
Subtotal: Mode S Digital Interrogator (MT040)	- / -	13 / 0.140	1 / 0.012	1 / 0.013	- / -	1 / 0.013	4 / 0.045	16 / 0.184	30 / 0.352	64 / 0.765	182 / 2.280	311 / 3.791	
Subtotal: Procurement, All Modification Items	- / 0.000	- / 0.140	- / 0.012	- / 0.013	- / -	- / 0.013	- / 0.045	- / 0.184	- / 0.352	- / 0.765	- / 2.280	- / 3.791	
Support (All Modification Items)													
2.1) Support Equipment	- / 0.688	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.688	
2.2) ILS	- / 1.082	- / 0.278	- / 0.264	- / 0.181	- / -	- / 0.181	- / 0.239	- / 0.479	- / 0.459	- / 0.716	- / 3.582	- / 7.280	
2.3) PE ⁽¹⁴⁾	- / 14.430	- / 0.407	- / 1.439	- / 1.071	- / -	- / 1.071	- / 1.559	- / 3.684	- / 4.553	- / 8.032	- / 14.809	- / 49.984	
2.4) Product Improvement	- / -	- / 1.936	- / 0.493	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.429	
2.5) Acceptance, Test & Evaluation	- / 0.454	- / 0.621	- / 0.620	- / 0.400	- / -	- / 0.400	- / 0.400	- / 0.035	- / 0.142	- / 0.272	- / 2.354	- / 5.298	
2.6) Depot	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	
2.7) Initial Training	- / 0.423	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.423	
Subtotal: Support	- / 17.277	- / 3.242	- / 2.816	- / 1.652	- / -	- / 1.652	- / 2.198	- / 4.198	- / 5.154	- / 9.020	- / 20.745	- / 66.302	
Installation													
Modification Item 1 of 1: Mode S Digital Interrogator (MT040)	- / 0.000	- / 0.340	- / -	- / 0.023	- / -	- / 0.023	- / 0.024	- / 0.092	- / 0.351	- / 0.533	- / 5.199	- / 6.562	
Subtotal: Installation	- / 0.000	- / 0.340	- / -	- / 0.023	- / -	- / 0.023	- / 0.024	- / 0.092	- / 0.351	- / 0.533	- / 5.199	- / 6.562	
Total													
Total Cost (Procurement + Support + Installation)	17.277	3.722	2.828	1.688	-	1.688	2.267	4.474	5.857	10.318	28.224	76.655	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9										P-1 Line Item Number / Title: 2851 / ID Systems										Modification Number / Title: 6 / Mode S Digital Interrogator (MT040)											
Modification Item 1 of 1: Mode S Digital Interrogator (MT040)																															
Manufacturer Information																															
Manufacturer Name: BAE Systems LP															Manufacturer Location: Greenlawn, NY																
Administrative Leadtime (in Months): 3															Production Leadtime (in Months): 12																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Dec 2013				Dec 2014				Dec 2015				Dec 2016				Dec 2017				Dec 2018				Dec 2019					
Delivery Dates		Jul 2014				Dec 2015				Dec 2016				Dec 2017				Dec 2018				Dec 2019				Dec 2020					
Installation Information																															
Method of Implementation: AIT:: Installation Name: Equipment																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2014		- / -	13 / 0.340	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.340																		
FY 2015		- / -	- / -	- / -	1 / 0.023	- / -	1 / 0.023	- / -	- / -	- / -	- / -	- / -	1 / 0.023																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.024	- / -	- / -	- / -	- / -	1 / 0.024																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.092	- / -	- / -	- / -	4 / 0.092																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.351	- / -	- / -	16 / 0.351																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 0.533	- / -	30 / 0.533																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	64 / 1.353	64 / 1.353																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	182 / 3.846	182 / 3.846																		
Total		- / -	13 / 0.340	- / -	1 / 0.023	- / -	1 / 0.023	1 / 0.024	4 / 0.092	16 / 0.351	30 / 0.533	246 / 5.199	311 / 6.562																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	13	-	-	-	-	1	-	-	-	-	1	-	-	-	1	1	2	-	5	5	6	7	7	7	9	246	311
Out	-	-	-	-	13	-	-	-	-	1	-	-	-	-	1	-	-	-	1	1	2	-	5	5	6	7	7	7	9	246	311
Footnotes: (13) Decrease in quantities due to ship decommissions. (14) Production Engineering fluctuates throughout the FYDP as the program transitions from installs on small number of ship classes with limited combat system configurations some years to installs on multiple ship classes with various additional combat system configurations other years.																															

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment							P-1 Line Item Number / Title: 2876 / Naval Mission Planning Systems					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	194.004	14.131	13.950	13.737	-	13.737	9.881	9.775	10.004	10.217	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	194.004	14.131	13.950	13.737	-	13.737	9.881	9.775	10.004	10.217	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	194.004	14.131	13.950	13.737	-	13.737	9.881	9.775	10.004	10.217	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	0.860	0.750	0.567	-	0.567	0.405	-	-	-	-	2.582
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
 Description: This line item provides funding to procure Joint Mission Planning System (JMPS) workstations, Software/Production Engineering Support and Integrated Logistics Support (ILS). JMPS is the Chief of Naval Operation's (CNO) designated automated mission planning system for the Navy. JMPS enables weapon system employment by providing the information and decision aids needed to rapidly plan aircraft, weapon or sensor missions, load mission data into aircraft and weapons, and conduct post mission analysis. JMPS consists of two types of workstations - Maritime (JMPS-M) and Expeditionary (JMPS-E). JMPS-M is the primary product within the Naval Mission Planning System (NavMPS). The Navy's modern aircraft need data loaded from JMPS-M to fly their missions. As weapons become more advanced, they will require higher levels of detail in the data and more data that supports mission planning. These data requirements will require more advanced processors and greater amounts of contiguous memory. JMPS-M flight planning seats refer to the computer workstations that employ the JMPS framework software. JMPS-E is a tailorable and collaborative web-based mission planning system for the Amphibious Ready Group (ARG) Amphibious Squadron (PHIBRON). Program cost is not directly related to FY hardware quantity; software is a cost factor independent of FY hardware quantity and cost. Funding profile accounts for required four year workstations refresh to preclude aging hardware, increased failure rates, emerging technology and increased memory requirements. The following type/model/series (T/M/S) naval aircraft are supported by JMPS: AH-1W, F/A-18 A-F, E-2C, EP-3E, EA-6B, AV-8B, S-3, V-22, Chief of Naval Air Training (CNATRA), EA-18G, MV-22, C-2, MH-53E, P-3, Aircraft Carrier Intelligence Center (CVIC), SH-60B/F, HH-60H, CH-53D/E, CH-46E, UH-1N, VH-3/VH-60, AH-1Z, UH-1Y, MH-60R/S and E-2D. Future JMPS platforms include: MQ-4C (Triton) and CH-53K.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 9: Aviation Electronic Equipment					P-1 Line Item Number / Title: 2876 / Naval Mission Planning Systems			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Naval Mission Planning Systems	P-5, P-5a		- / 194.004	- / 14.131	- / 13.950	- / 13.737	- / -	- / 13.737
Total Gross/Weapon System Cost			- / 194.004	- / 14.131	- / 13.950	- / 13.737	- / -	- / 13.737
*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 add due to rounding.								
Justification: Items to be funded in this line include: Workstation Components - JMPS-M and JMPS-E procure tactical computer hardware through a non-developmental item acquisition strategy. Tactical computer equipment is used to plan and analyze expeditionary missions and aircraft routes under various mission configurations and operational threat environments. Primary outputs are tasking orders, courses of action (COAs), route plans, and mission essential data loads for mission execution. New workstations consist of aircraft unique data transfer devices and interfaces, Memory Data Loader Receptacles (MDLR) Small Computer Standard Interface (SCSI) (MDLR-S), Data Storage Unit Receptacle SCSI (DSUR-S), network hubs, printers, fleet training school workstations and other peripheral devices for USN/USNR/USMC/USMCR missions. Legacy data loader receptacle failures in addition to computer interface obsolescence and an inability to influence airframe changes for legacy aircraft in sustainment, drive a need to obtain a new data loader using a more extensive interface. JMPS Authority to Operate (ATO) requires compliance with Naval Network Warfare Command (NNWC)-issued Information Assurance (IA) mandates and Communications Tasking Orders (CTOs). Software/Production Engineering Support - The NavMPS program produces software releases via an evolutionary development process. These releases contain enhancements based on fleet inputs and technology challenges. They also contain changes required to retain compatibility with supported platforms, associated weapons, and threat and imagery databases providing input to NavMPS. Software releases are independent of hardware buys. Cost element includes production support services, engineering support services, independent verification and validation test and acceptance, site activation, IA compliance and quality assurance efforts. Integrated Logistics Support - Site surveys, prepare site installation drawings, on-site engineering and logistics evaluations for installations and delivery systems comply with the specified configuration. This includes the production and delivery of technical documentation and training materials such as OPNOTES, installation instructions, user manuals required during the fielding of NavMPS products. ILS is a cost factor independent of FY hardware quantity and cost. FY16 provides funding to procure seven hundred fifty (750) JMPS-M flight planning seats, and five (5) JMPS-E workstations, the continuation of enhancements of software releases based on fleet inputs, emerging technologies, IA compliance and associated logistics support. FY16 laptop procurement supports C-2, E-2C, E-2D, EA-6B, AV-8B, CH-53D/E, CH-46E and CH-53K. Additionally, funding provides for database systems with storage space capable of storing National Geospatial-Intelligence Agency (NGA) world-wide map data with associated network hardware. This will provide the Fleet with the required storage for map data, Digital Terrain Elevation Data (DTED) and imagery necessary to plan missions.								

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Exhibit P-5, Cost Analysis: PB 2016 Navy											Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9						P-1 Line Item Number / Title: 2876 / Naval Mission Planning Systems						Item Number / Title [DODIC]: 1 / Naval Mission Planning Systems						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				194.004		14.131		13.950		13.737		-		13.737				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				194.004		14.131		13.950		13.737		-		13.737				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				194.004		14.131		13.950		13.737		-		13.737				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		0.860		0.750		0.567		-		0.567				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 - JMPS Hardware Cost																		
Recurring Cost																		
1.1.1) S7403 JMPS-M FLIGHT PLANNING SEAT ^(†) (1)	4,998.29	8,174	40.856	3,336.00	750	2.502	3,392.20	750	2.544	3,450.14	750	2.588	-	-	-	3,450.14	750	2.588
1.1.2) S7408 JMPS-E EXPEDITIONARY WARFARE ^(†) (2)	5,221.20	217	1.133	3,295.10	5	0.016	3,392.47	5	0.017	3,450.14	5	0.017	-	-	-	3,450.14	5	0.017
1.1.3) S7850 JMPS-M Support Equipment (3)	-	-	-	-	-	5.369	-	-	2.572	-	-	2.572	-	-	-	-	-	2.572
1.1.4) S7851 JMPS-E Support Equipment (4)	-	-	-	-	-	0.022	-	-	0.020	-	-	0.022	-	-	-	-	-	0.022
Subtotal: Recurring Cost	-	-	41.989	-	-	7.909	-	-	5.153	-	-	5.199	-	-	-	-	-	5.199
Subtotal: Hardware - JMPS Hardware Cost	-	-	41.989	-	-	7.909	-	-	5.153	-	-	5.199	-	-	-	-	-	5.199
Support Cost																		
3.1) S7820 Other Costs	-	-	152.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) S7830 Software/ Production Engineering Support (5)	-	-	-	-	-	5.464	-	-	7.584	-	-	7.286	-	-	-	-	-	7.286
3.3) S7800 Integrated Logistics Support (6)	-	-	-	-	-	0.758	-	-	1.213	-	-	1.252	-	-	-	-	-	1.252
Subtotal: Support Cost	-	-	152.015	-	-	6.222	-	-	8.797	-	-	8.538	-	-	-	-	-	8.538

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9						P-1 Line Item Number / Title: 2876 / Naval Mission Planning Systems							Item Number / Title [DODIC]: 1 / Naval Mission Planning Systems					
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
Gross/Weapon System Cost	-	-	194.004	-	-	14.131	-	-	13.950	-	-	13.737	-	-	-	-	-	13.737

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

Footnotes:

- (1) FY16 unit cost and total cost only reflect JMPS-M laptop procurement. Quantities reflect JMPS-M laptop procurement. Quantities adjusted to meet Fleet demand and number of Mission Planning Environments/aircraft supported (43 T/M/S by FY16). JMPS laptop quantities are currently based on Fleet demand which is validated by CNAF. FY16 laptop unit costs are based on current laptop model (GETAC X500) plus inflation. The laptop candidates determined by Fleet requirements and COTS/Military spec software/hardware compatibility.
- (2) FY16 unit cost and total cost only reflect JMPS-E laptop procurement. Quantities reflect JMPS-E laptop procurement. Quantities adjusted to meet Fleet demand. FY16 laptop unit costs are based on current laptop model (GETAC X500) plus inflation. The laptop candidates determined by Fleet requirements and COTS/Military spec software/hardware compatibility.
- (3) Support Equipment includes storage devices, network hubs, printers, initial fleet training school workstations, Advanced Data Loader Receptacles and other peripheral devices for USN/USNR/USMC/USMCR missions. Support Equipment adjusted to meet Fleet demand and number of Mission Planning Environments/aircraft supported (43 T/M/S by FY16). FY16 provides the Fleet support equipment for SIPRNET Public Key Infrastructure (PKI) Information Assurance compliance and increased memory/storage requirements.
- (4) Support Equipment includes storage devices, network hubs, printers, and other peripheral devices for USN/USNR/USMC/USMCR missions.
- (5) FY16 Software/Production Engineering Support increase due to the number of Mission Planning Environments/aircraft supported (43 T/M/S by FY16), support of initial fielding of Windows 7 operating system (41 T/M/S) and Information Assurance (IA) mandates. All platforms will be outfitted with Windows 7 before April 2016.
- (6) Integrated Logistics Support provides JMPS technical documentation, training materials and installation instructions that are compliant with Information Assurance (IA) mandates and Communications Tasking Orders (CTOs) for newly deployed platforms. All platforms will be outfitted with Windows 7 before April 2016.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 9				P-1 Line Item Number / Title: 2876 / Naval Mission Planning Systems				Item Number / Title [DODIC]: 1 / Naval Mission Planning Systems				

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) S7403 JMPS-M FLIGHT PLANNING SEAT		2014 (7)	NCS Technologies / Gainsville, VA	C / FFP	NAWCWD, Point Mugu	Sep 2014	Oct 2014	750	3,336.00	Y		May 2014
1.1.1) S7403 JMPS-M FLIGHT PLANNING SEAT		2015	NCS Technologies / Gainsville, VA	C / FFP	NAWCWD, Point Mugu	Mar 2015	Apr 2015	750	3,392.20	Y		Feb 2015
1.1.1) S7403 JMPS-M FLIGHT PLANNING SEAT		2016	NCS Technologies / Gainsville, VA	C / FFP	NAWCWD, Point Mugu	Jul 2016	Aug 2016	750	3,450.14	N	Apr 2016	May 2016
1.1.2) S7408 JMPS-E EXPEDITIONARY WARFARE		2014 (8)	NCS Technologies / Gainsville, VA	C / FFP	NAWCWD, Point Mugu	Sep 2014	Oct 2014	5	3,295.10	Y		May 2014
1.1.2) S7408 JMPS-E EXPEDITIONARY WARFARE		2015	NCS Technologies / Gainsville, VA	C / FFP	NAWCWD, Point Mugu	Mar 2015	Apr 2015	5	3,392.47	Y		Feb 2015
1.1.2) S7408 JMPS-E EXPEDITIONARY WARFARE		2016	NCS Technologies / Gainsville, VA	C / FFP	NAWCWD, Point Mugu	Jul 2016	Aug 2016	5	3,450.14	N	Apr 2016	May 2016

Footnotes:

⁽⁷⁾ FY14 contract award was delayed until Sept 2014 due to changes in the Fleet's requirements. The requirement change resulted in additional testing of laptop candidates by the government before a procurement decision was made.

⁽⁸⁾ FY14 contract award was delayed until Sept 2014 due to changes in the Fleet's requirements. The requirement change resulted in additional testing of laptop candidates by the government before a procurement decision was made.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment	P-1 Line Item Number / Title: 2804 / Depl JT Cmd & Control (DJC2)

ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0603237N

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	156.949	3.249	1.205	1.314	-	1.314	1.600	2.590	2.291	2.340	141.571	313.109
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	156.949	3.249	1.205	1.314	-	1.314	1.600	2.590	2.291	2.340	141.571	313.109
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	156.949	3.249	1.205	1.314	-	1.314	1.600	2.590	2.291	2.340	141.571	313.109

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	0.280	0.295	0.293	-	0.293	0.152	0.318	0.329	0.337	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Deployable Joint Command and Control (DJC2) provides a self-contained, standardized, rapidly deployable, modular, scalable, and reconfigurable joint command and control (C2) capability to designated Geographic Combatant Commands (GCCs). DJC2 is the materiel solution to Defense Planning Guidance that called for the development of standing Joint Task Forces (JTF) with a deployable C2 capability. DJC2 will ensure that Joint Force Commanders (JFC) are equipped as well as trained and organized to carry out their C2 responsibilities. DJC2 provides GCCs and JFCs a mission critical, integrated family of systems with which to plan, control, coordinate, execute and assess operations. It is designed to deploy rapidly, set up within hours and quickly provide necessary C2 mission and collaboration functionality across the full spectrum of JTF operations. The DJC2 has also been deployed in support of Humanitarian Assistance and Disaster Relief (HA/DR) efforts. The capability is intended for all levels of conflict and will be reconfigurable to meet specific GCC and JTF mission requirements. This capability is interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces.

DJC2 sites are as follows: 6 DJC2 core systems garrisoned at USSOUTHCOM Tampa, Florida (1), USEUCOM Stuttgart, Germany (1), AFRICOM (SETAF) Vicenza, Italy (1), USPACOM Camp Smith, Hawaii (1), Marine Expeditionary Force (III MEF) Camp Hansen, Japan (1), and NAVEUR-NAVAF, JFC Naples, Italy.

Note that DJC2 is not a follow-on or replacement system for the Global Command and Control System-Joint (GCCS-J); rather, DJC2 employs a suite of applications, ensuring interoperability with the worldwide-installed base of GCCS-J.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment				P-1 Line Item Number / Title: 2804 / Depl JT Cmd & Control (DJC2)				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements: 0603237N		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Depl JT Cmd & Control (DJC2)	P-5, P-5a		- / 156.949	- / 3.249	- / 1.205	- / 1.314	- / -	- / 1.314
Total Gross/Weapon System Cost			- / 156.949	- / 3.249	- / 1.205	- / 1.314	- / -	- / 1.314
*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 add due to rounding.								

Justification:

The FY 2016 funding request was reduced by \$0.9 million to account for the availability of prior year execution balances.
FY16 procures system enhancements for the six DJC2 core systems.

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10						P-1 Line Item Number / Title: 2804 / Depl JT Cmd & Control (DJC2)							Item Number / Title [DODIC]: 1 / Depl JT Cmd & Control (DJC2)								
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				156.949			3.249			1.205			1.314			-			1.314		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P1) <i>(\$ in Millions)</i>				156.949			3.249			1.205			1.314			-			1.314		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				156.949			3.249			1.205			1.314			-			1.314		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares <i>(\$ in Millions)</i>				-			0.280			0.295			0.293			-			0.293		
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																					
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total					
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)			
Flyaway - Increment I RRR/EoIP Enhancements (JH400) Cost																					
Non Recurring Cost																					
1.1.1) Increment I RRR/EoIP Enhancements	457.500	4	1.830	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Non Recurring Cost	-	-	1.830	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Flyaway - Increment I RRR/EoIP Enhancements (JH400) Cost	-	-	1.830	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Flyaway - Increment I System Enhancements (JH500) Cost																					
Recurring Cost																					
2.1.1) Increment I System Enhancements ^(†) (1)	11,079.929	14	155.119	541.500	6	3.249	200.833	6	1.205	219.000	6	1.314	-	-	-	219.000	6	1.314			
Subtotal: Recurring Cost	-	-	155.119	-	-	3.249	-	-	1.205	-	-	1.314	-	-	-	-	-	1.314			
Subtotal: Flyaway - Increment I System Enhancements (JH500) Cost	-	-	155.119	-	-	3.249	-	-	1.205	-	-	1.314	-	-	-	-	-	1.314			
Gross/Weapon System Cost	-	-	156.949	-	-	3.249	-	-	1.205	-	-	1.314	-	-	-	-	-	1.314			
(†) indicates the presence of a P-5a																					

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Exhibit P-5, Cost Analysis: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2804 / Depl JT Cmd & Control (DJC2)	Item Number / Title [DODIC]: 1 / Depl JT Cmd & Control (DJC2)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Footnotes:

(1) Quantities listed represent DJC2 core system sites. Unit costs vary due to the number or level of core system enhancements performed at each site from year to year.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10			P-1 Line Item Number / Title: 2804 / Depl JT Cmd & Control (DJC2)					Item Number / Title [DODIC]: 1 / Depl JT Cmd & Control (DJC2)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.1) Increment I System Enhancements		2014	NSWC PC / Panama City, FL	WR	Panama City, FL	Dec 2013	Aug 2014	6	541.500	Y		
2.1.1) Increment I System Enhancements		2015	SPAWAR / San Diego	TBD	San Diego, CA	May 2015	Jan 2016	6	200.833	Y		
2.1.1) Increment I System Enhancements		2016	SPAWAR / San Diego	TBD	San Diego, CA	Dec 2015	Aug 2016	6	219.000	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment							P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	67.257	11.646	3.447	-	-	-	-	-	-	-	-	82.350
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	67.257	11.646	3.447	-	-	-	-	-	-	-	-	82.350
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	67.257	11.646	3.447	-	-	-	-	-	-	-	-	82.350
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	0.978	-	-	-	-	-	-	-	-	-	0.978
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Maritime Integrated Broadcast Service (MIBS): Project charter is to deliver Integrated Broadcast Service (IBS) data to operational and tactical decision makers aboard United States Navy surface ships, shore headquarters, and other joint platforms. It disseminates organic and non-organic derived data from Navy platforms to other theater tactical, operational, and strategic users. MIBS will give the Navy a capability to receive, transmit, and deliver near real time IBS data, enhancing the Common Operational Picture (COP) supporting operations in all warfare areas, including Ballistic Missile Defense (BMD), Anti-Air Warfare (AAW), Anti-Surface Warfare (ASW), Undersea Warfare (UW), and Electronic Warfare (EW). DH530: Joint Tactical Terminal - Maritime (JTT-M) (AN/USQ-151) System is a Ultra High Frequency Satellite Communications system that will give the shipboard and ashore users the capability to participate in national and joint theater level tactical intelligence data exchange through the IBS network using Integrated Broadcast Service-Simplex (IBS-S) and IBS-Interactive (IBS-I) data. The IBS networks feed the Common Operational Intelligence Picture and Maritime Domain Awareness with critical data, supports operational and strategic decision makers at component and combatant commander levels. JTT interfaces with Joint BMD systems to include: Aegis BMD, Theatre High Altitude Area Defense Missile System, and Patriot. JTT-M supports international naval relationships with IBS partner nations through interoperability, enables warfighters with national and theater tactical intelligence support in all warfare areas, strengthens collaborative environment for joint warfighting, and enhances effects based strike with increased Measure of Effectiveness (MOE) data set availability. JTT-M system (AN/USQ-151) will replace legacy terminals (Tactical Receive Equipment (TRE) and Commanders Tactical Terminal (CTT)), that will become obsolete with the National Security Agency (NSA) crypto modernization mandate, as well as be able to provide IBS capability to Aegis platforms without IBS terminals. DH530: AN/USC-62 Upgrade Kits: The JTT-M AN/USQ -151 system is comprised of an AN/USC-62, JTT - Senior (Sr) subsystem, an operator workstation, and various pieces of equipment needed to interface and integrate the terminal into a Navy platform. The AN/USC-62 Upgrade Kits will enable compliance with NSA crypto modernization mandate, Common Message Format (CMF) and Common Integrated Broadcast (CIB) waveform. DH530: Universal Computers: The procurement of new Grade A Universal Computers is required to host hardware and software to configure the AN/USC-62 terminal, as well as display and process IBS data. The universal computers are being replaced due to obsolescence.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment		P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment					P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:			
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	
Title*	Exhibits	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)	
1 / AN/USC-62 UPGRADE KITS & UNIVERSAL COMPUTER - SHIP (Upgrade)	P-3a		- / 3.743	- / 0.096	- / -	- / -	- / -	- / -	
2 / AN/USQ-151, JTT-M SYSTEMS - Ship (New Model)	P-3a		- / 59.849	- / 8.675	- / 2.182	- / -	- / -	- / -	
3 / AN/USQ-151, JTT-M SYSTEM - Shore (New Model)	P-3a		- / 3.665	- / 2.875	- / 1.265	- / -	- / -	- / -	
Total Gross/Weapon System Cost			- / 67.257	- / 11.646	- / 3.447	- / -	- / -	- / -	
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
Title*	Exhibits	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)	
1 / AN/USC-62 UPGRADE KITS & UNIVERSAL COMPUTER - SHIP (Upgrade)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 3.839	
2 / AN/USQ-151, JTT-M SYSTEMS - Ship (New Model)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 70.706	
3 / AN/USQ-151, JTT-M SYSTEM - Shore (New Model)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 7.805	
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 82.350	
*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 add due to rounding.									

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System	Modification Number / Title: 1 / AN/USC-62 UPGRADE KITS & UNIVERSAL COMPUTER - SHIP

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	3.743	0.096	-	-	-	-	-	-	-	-	-	3.839
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	3.743	0.096	-	-	-	-	-	-	-	-	-	3.839
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	3.743	0.096	-	-	-	-	-	-	-	-	-	3.839
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/USQ-151, JTT-M system is a Ultra High Frequency (UHF) Satellite Communications (SATCOM) radio system that will give the shipboard and ashore users the capability to participate in national and joint theater level tactical intelligence data exchange through the Integrated Broadcast Service (IBS) network using IBS-Simplex (IBS-S) and IBS-Interactive (IBS-I) data. AN/USC-62 upgrade kits update the terminals to support National Security Agency (NSA) mandated crypto modernization, Common Message Format (CMF) and Common Integrated Broadcast (CIB) waveform. The universal computers are being replaced due to obsolescence.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System						Modification Number / Title: 1 / AN/USC-62 UPGRADE KITS & UNIVERSAL COMPUTER - SHIP			
Models of Systems Affected: Ship				Modification Type: Upgrade					Related RDT&E PEs: 0303109N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/USC-62 UPGRADE KITS & UNIVERSAL COMPUTER - SHIP													
B Kits													
Recurring													
1.1.1) Universal Computers - NonOrganic		67 / 0.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 0.624	
Subtotal: Recurring		- / 0.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.624	
Subtotal: AN/USC-62 UPGRADE KITS & UNIVERSAL COMPUTER - SHIP		67 / 0.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 0.624	
Subtotal: Procurement, All Modification Items		- / 0.624	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.624	
Installation													
Modification Item 1 of 1: AN/USC-62 UPGRADE KITS & UNIVERSAL COMPUTER - SHIP		- / 3.119	- / 0.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.215	
Subtotal: Installation		- / 3.119	- / 0.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.215	
Total													
Total Cost (Procurement + Support + Installation)		3.743	0.096	-	-	-	-	-	-	-	-	3.839	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System	Modification Number / Title: 1 / AN/USC-62 UPGRADE KITS & UNIVERSAL COMPUTER - SHIP

Modification Item 1 of 1: AN/USC-62 UPGRADE KITS & UNIVERSAL COMPUTER - SHIP

Manufacturer Information

Manufacturer Name: NCS Technologies Inc.	Manufacturer Location: Gainesville, VA
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 3

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: IMO:: Installation Name: Universal Computers

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	65 / 3.119	2 / 0.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 3.215
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	65 / 3.119	2 / 0.096	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	67 / 3.215

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	50	12	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67
Out	50	12	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System	Modification Number / Title: 2 / AN/USQ-151, JTT-M SYSTEMS - Ship

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	59.849	8.675	2.182	-	-	-	-	-	-	-	-	70.706
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	59.849	8.675	2.182	-	-	-	-	-	-	-	-	70.706
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	59.849	8.675	2.182	-	-	-	-	-	-	-	-	70.706
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/USQ-151, JTT-M system is a Ultra High Frequency (UHF) Satellite Communications (SATCOM) radio system that will give the shipboard and ashore users the capability to participate in national and joint theater level tactical intelligence data exchange through the Integrated Broadcast Service (IBS) network using IBS-Simplex (IBS-S) and IBS-Interactive (IBS-I) data. New AN/USQ-62, JTT-Senior systems will replace legacy terminals (Tactical Receive Equipment (TRE) and Commanders Tactical Terminal (CTT)) which will become obsolete with the National Security Agency (NSA) crypto modernization mandate as well as be able to provide IBS capability to AEGIS platforms without IBS terminals.

[AN/USQ-151, JTT-M Systems] Maritime Integrated Broadcast System (MIBS) project has been tasked to support accelerated fleet deployment of Joint Tactical Terminal - Maritime (JTT-M) systems and legacy system upgrades to meet pressing operational requirements and to meet critical NSA mandated crypto upgrades, as detailed in NSA SIGINT Director classified memo. The JTT-M systems and upgrades are mandatory to allow/continue broadcast access for DX national priority BMD mission platforms and surface force self-protection capabilities as prioritized by NAVCYBERFOR prioritization message, DTG: R291339Z MAR 13. Ships failing to get upgrade and planned system installs will lose mission capability after classified deadlines pass. The MIBS Program is working with the type commanders to identify WOO's to accelerate installs.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System				Modification Number / Title: 2 / AN/USQ-151, JTT-M SYSTEMS - Ship					
Models of Systems Affected: Ship				Modification Type: New Model				Related RDT&E PEs: 0303109N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/USQ-151, JTT-M SYSTEMS - Ship													
B Kits													
Recurring													
1.1.1) AN/USQ-151, JTT-M Systems - NonOrganic ⁽¹⁾		70 / 33.653	4 / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 35.953	
1.1.2) Ancillary Equipment - Organic ⁽²⁾		21 / 1.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 1.040	
Subtotal: Recurring		- / 34.693	- / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 36.993	
Subtotal: AN/USQ-151, JTT-M SYSTEMS - Ship		91 / 34.693	4 / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	95 / 36.993	
Subtotal: Procurement, All Modification Items		- / 34.693	- / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 36.993	
Support (All Modification Items)													
2.1) Production Support ⁽³⁾		- / 7.373	- / 0.567	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.940	
2.2) DSA		- / 3.950	- / 0.368	- / 0.142	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.460	
Subtotal: Support		- / 11.323	- / 0.935	- / 0.142	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.400	
Installation													
Modification Item 1 of 1: AN/USQ-151, JTT-M SYSTEMS - Ship		- / 13.833	- / 5.440	- / 2.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.313	
Subtotal: Installation		- / 13.833	- / 5.440	- / 2.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.313	
Total													
Total Cost (Procurement + Support + Installation)		59.849	8.675	2.182	-	-	-	-	-	-	-	70.706	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10		P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System			Modification Number / Title: 2 / AN/USQ-151, JTT-M SYSTEMS - Ship		

Modification Item 1 of 1: AN/USQ-151, JTT-M SYSTEMS - Ship

Manufacturer Information

Manufacturer Name: Raytheon ⁽⁴⁾				Manufacturer Location: St. Petersburg, FL			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 13			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013						
Delivery Dates	Jan 2015						

Installation Information

Method of Implementation: Ship:: Installation Name: AN/USQ-151, JTT-M Systems

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	52 / 13.833	16 / 5.440	2 / 0.680	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 19.953
FY 2014	- / -	- / -	4 / 1.360	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.360
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	52 / 13.833	16 / 5.440	6 / 2.040	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	74 / 21.313

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	48	4	4	4	6	2	3	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74
Out	48	4	4	4	6	2	3	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74

Method of Implementation (Organic): Not Installed - Ancillary Equipment	Installation Quantity: 21

Footnotes:

⁽¹⁾ JTT-M System unit cost fluctuates depending on economy of scales savings. When Navy and OCF procurements are combined, cost decreases per unit.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System	Modification Number / Title: 2 / AN/USQ-151, JTT-M SYSTEMS - Ship

(2) First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability.

(3) SECNAV Waivers will be submitted for decommissioning CG's when officially promulgated By the Department of the Navy Ship Annual Supplemental Data Tables (SASDT). The Joint Tactical Terminal - Maritime is required for receipt of Over-The-Air (OTA) Near Real Time (NRT) intelligence and Force Protection that would otherwise be unavailable to Joint forces during early entry operations, and in areas of operation that lack a mature wideband communications and dissemination infrastructure. JTT-M on CG's provides enhanced platform Common Operational Picture (COP) and Platform Protection through early Indications and Warnings (I&W).

(4) AN/USQ-151, JTT-M Systems

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System					Modification Number / Title: 3 / AN/USQ-151, JTT-M SYSTEM - Shore			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	3.665	2.875	1.265	-	-	-	-	-	-	-	-	7.805
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	3.665	2.875	1.265	-	-	-	-	-	-	-	-	7.805
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	3.665	2.875	1.265	-	-	-	-	-	-	-	-	7.805
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The AN/USQ-151, JTT-M system is a Ultra High Frequency (UHF) Satellite Communications (SATCOM) radio system that will give the shipboard and ashore users the capability to participate in national and joint theater level tactical intelligence data exchange through the Integrated Broadcast Service (IBS) network using IBS-Simplex (IBS-S) and IBS-Interactive (IBS-I) data. New AN/USQ-62, JTT-Senior systems will replace legacy terminals (Tactical Receive Equipment (TRE) and Commanders Tactical Terminal (CTT)) which will become obsolete with the National Security Agency (NSA) crypto modernization mandate as well as be able to provide IBS capability to AEGIS platforms without IBS terminals. First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability. [AN/USQ-151, JTT-M SYSTEM] Maritime Integrated Broadcast System (MIBS) project has been tasked to support accelerated fleet deployment of Joint Tactical Terminal - Maritime (JTT-M) systems and legacy system upgrades to meet pressing operational requirements and to meet critical NSA mandated crypto upgrades, as detailed in NSA SIGINT Director classified memo. The JTT-M systems and upgrades are mandatory to allow/continue broadcast access for DX national priority BMD mission platforms and surface force self-protection capabilities as prioritized by NAVCYBERFOR prioritization message, DTG: R291339Z MAR 13. Ships failing to get upgrade and planned system installs will lose mission capability after classified deadlines pass. The MIBS Program is working with the type commanders to identify WOO's to accelerate installs.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System					Modification Number / Title: 3 / AN/USQ-151, JTT-M SYSTEM - Shore				
Models of Systems Affected: Shore				Modification Type: New Model					Related RDT&E PEs: 0303109N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: AN/USQ-151, JTT-M SYSTEM - Shore													
B Kits													
Recurring													
1.1.1) AN/USQ-151, JTT-M SYSTEM - NonOrganic ⁽⁵⁾		8 / 2.263	5 / 2.875	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 5.138	
Subtotal: Recurring		- / 2.263	- / 2.875	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.138	
Subtotal: AN/USQ-151, JTT-M SYSTEM - Shore		8 / 2.263	5 / 2.875	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 5.138	
Subtotal: Procurement, All Modification Items		- / 2.263	- / 2.875	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.138	
Installation													
Modification Item 1 of 1: AN/USQ-151, JTT-M SYSTEM - Shore		- / 1.402	- / -	- / 1.265	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.667	
Subtotal: Installation		- / 1.402	- / -	- / 1.265	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.667	
Total													
Total Cost (Procurement + Support + Installation)		3.665	2.875	1.265	-	-	-	-	-	-	-	7.805	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10		P-1 Line Item Number / Title: 2900 / Maritime Integrated Broadcast System			Modification Number / Title: 3 / AN/USQ-151, JTT-M SYSTEM - Shore		

Modification Item 1 of 1: AN/USQ-151, JTT-M SYSTEM - Shore

Manufacturer Information

Manufacturer Name: Raytheon ⁽⁶⁾				Manufacturer Location: St. Petersburg, FL			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 13			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013						
Delivery Dates	Jan 2015						

Installation Information

Method of Implementation: [none specified]:: Installation Name: AN/USQ-151, JTT-M SYSTEM

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	8 / 1.402	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 1.402
FY 2014	- / -	- / -	5 / 1.265	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.265
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	8 / 1.402	- / -	5 / 1.265	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 2.667

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	8	-	-	-	-	-	3	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Out	8	-	-	-	-	-	3	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13

Footnotes:

⁽⁵⁾ JTT-M System unit cost fluctuates depending on economy of scales savings. When Navy and OCF procurements are combined, cost decreases per unit.

⁽⁶⁾ AN/USQ-151, JTT-M System

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment							P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems					
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:					Other Related Program Elements: 0604231N				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	34.176	22.817	16.766	13.600	-	13.600	14.541	14.739	14.805	15.117	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	34.176	22.817	16.766	13.600	-	13.600	14.541	14.739	14.805	15.117	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	34.176	22.817	16.766	13.600	-	13.600	14.541	14.739	14.805	15.117	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	0.709	0.320	0.495	-	0.495	0.503	0.419	0.196	0.104	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Maritime Patrol & Reconnaissance Force (MPRF) Mission Support Systems: MPRF Mission Support Systems provide the MPRF commanders with the capability to plan, direct, control and evaluate the tactical operations of MPRF and other assigned units within their respective area of responsibility. These operations include littoral, open ocean, and over land all sensor (e.g., Electro Optical (EO), Infrared (IR), Inverse Synthetic-Aperture Radar (ISAR)) surveillance, anti-surface warfare, over-the-horizon targeting, counter-drug operations, power projection, antisubmarine warfare, mining, search and rescue, homeland defense, and special operations. The program includes fixed-site Tactical Operations Centers (TOCs) or equivalent and Mobile Tactical Operations Centers (MTOCs) or equivalent. Each TacMobile unit is a system-of-systems. TOCs provide sensor and tactical data communications systems; mission planning/mission support, sensor analysis capabilities; avionics and weapons system interfaces, media devices and data handling capabilities, at fixed-site locations. MTOC is a scalable and mobile version of the TOC for contingency operations and for support of operations from expeditionary airfields that do not have a TOC. The TacMobile program uses an evolutionary development strategy consisting of incremental upgrades to meet new and emergent Fleet requirements, while retaining current capabilities. Increments are planned and resourced to support the MPRF Family of Systems aircraft: P-8A Poseidon aircraft and its upgrades; Advanced Airborne Sensor (AAS); MQ-4C Triton; as well as updated sensors on the P-3C series aircraft. 9 TOCs: 6 operational systems (located at Jacksonville, Florida; Sigonella, Italy; Kaneohe Bay, Hawaii; Whidbey Island, Washington; Kadena, Japan; and Bahrain), 1 training site (Center for Naval Air Technical Training (CNATT) Jacksonville, Florida), 2 laboratory sites (a communications integration lab located at Space & Naval Warfare Systems Command Systems Center (SSC) Atlantic, and an aircraft integration lab at SSC Atlantic detachment Patuxent River, Maryland). 15 MTOCs: 9 operational systems (home ported at Jacksonville, Florida (5 sites); Misawa, Japan; Whidbey Island, Washington; and Coronado (North Island), California (2 sites)), 1 laboratory site (an aircraft integration lab located at Navy Detachment Dallas), 1 C4I engineering and maintenance support system (located at the In Service Engineering Activity (ISEA), SSC Atlantic), 1 C4I mobile systems school house (Center for Naval Air Technical Training (CNATT) Jacksonville, Florida) and 3 systems awaiting End-to-End refresh/recapitalization to meet current operational configuration/requirements (SSC Atlantic). Further transition and relocations are anticipated as primary maritime patrol and reconnaissance aircraft operating locations evolve in support of fleet operational requirements as a result of the ongoing transition to the P-8A as the replacement aircraft for the P-3C, and the introduction of the MQ-4C Triton. The TOC and MTOC personnel, along with their C4I infrastructure, will transition with these aircraft from a primarily forward deployed force to a more expeditionary surge-ready force.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment		P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items:	Other Related Program Elements: 0604231N
The TacMobile program uses an evolutionary development strategy consisting of incremental upgrades to meet new and emergent fleet requirements, while retaining current capabilities. Tactical Operations Center and Mobile Tactical Operations Center increments are planned and resourced to support the P-8A Poseidon, the MQ-4C Triton, and new and updated sensors on the P-3C series aircraft. 1 JMAST: 1 legacy operational system (located at Bahrain) will retire due to End of Life by the end of the year FY16. T4050. C4I and mobility equipment upgrades: Upgrades TOC and MTOC C4I equipment and associated software. It also includes mobility and facilities equipment necessary to power and support the C4I equipment in both fixed site and mobile configurations. Nuclear Command, Control, and Communication (NC3) Hybrid Solution is a terrestrial messaging system with the primary purpose of providing accurate and reliable delivery of time-critical Nuclear C2 messages from the Executing Command Authority to nuclear-capable force elements and other authorized subscribers during the pre-attack range of military operations. Take Charge and Move Out (TACAMO) will procure three High-Altitude Electromagnetic Pulse (HEMP) shelters to protect the existing equipment suite of MILSTAR terminals and modify two ground mobile vehicle shelters to prevent electromagnetic interference.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment					P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems			
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:			Other Related Program Elements: 0604231N		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Tactical/Mobile (TacMobile) C4I Systems	P-40a, P-5a		- / 25.514	- / 17.140	- / 11.029	- / 0.717	- / -	- / 0.717
1 / Tactical/Mobile (TacMobile) C4I Systems- Tech Refresh (Tech Refresh)	P-3a		- / 8.662	- / 1.876	- / -	- / 1.979	- / -	- / 1.979
2 / Tactical Mobile (TacMobile) C4I Systems - Tech Refresh 2.1.1 (Upgrade)	P-3a		- / 0.000	- / 3.801	- / 5.737	- / 10.904	- / -	- / 10.904
Total Gross/Weapon System Cost			- / 34.176	- / 22.817	- / 16.766	- / 13.600	- / -	- / 13.600
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
Tactical/Mobile (TacMobile) C4I Systems	P-40a, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / Tactical/Mobile (TacMobile) C4I Systems- Tech Refresh (Tech Refresh)	P-3a		- / 2.051	- / 4.195	- / 3.061	- / 0.775	Continuing	Continuing
2 / Tactical Mobile (TacMobile) C4I Systems - Tech Refresh 2.1.1 (Upgrade)	P-3a		- / 12.490	- / 10.544	- / 4.993	- / 2.161	- / 0.200	- / 50.830
Total Gross/Weapon System Cost			- / 14.541	- / 14.739	- / 14.805	- / 15.117	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 add due to rounding.								
Justification: The FY 2016 funding request was reduced by \$0.7 million to account for the availability of prior year execution balances. FY16 procurements include: Tech Refresh of TOC C4I; and Tech Refresh of MTOC C4I. TacMobile has three distinct tech refresh efforts across the FYDP: "Tech Refresh 2.0.1" provides technical modernization and refresh to previously fielded Increment 2.0 systems and modernizes operating system baseline and maintains information security posture, "Tech Refresh 2.1.1" provides technical modernization and refresh to previously fielded Increment 2.1 systems to enable interface with P-8A Increment 2 engineering change proposals, and "Overarching Tech Refresh" which provides an End-to-End technical refresh to MTOC systems that have not been upgraded and refreshed to the same baseline as the remaining TacMobile systems. These units are now in need of refresh to meet current operational configuration requirements.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy																Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10								P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems								Aggregated Items Title: Tactical/Mobile (TacMobile) C4I Systems			

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total								
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)						
1) T4050 Tactical/Mobile																										
1.1) TOC/MTOC Inc 2.1 (1)(†)	A		992.625	16	15.882	995.000	8	7.960	724.200	10	7.242	-	-	-	-	-	-	-	-	-						
1.2) TOC/MTOC 2.0.1 (2)(†)	A		284.550	20	5.691	295.500	8	2.364	301.500	2	0.603	-	-	-	-	-	-	-	-	-						
Subtotal: 1) T4050 Tactical/Mobile			-	-	21.573	-	-	10.324	-	-	7.845	-	-	-	-	-	-	-	-	-						
2) TACAMO																										
2.1) TACAMO (3)(†)	B		-	-	-	1,489.000	3	4.467	-	-	-	-	-	-	-	-	-	-	-	-						
2.2) Production Support	B		-	-	-	-	-	0.161	-	-	-	-	-	-	-	-	-	-	-	-						
Subtotal: 2) TACAMO			-	-	0.000	-	-	4.628	-	-	-	-	-	-	-	-	-	-	-	-						
3) T4776 Installation																										
3.1) 2.1 Install	A		-	-	2.735	-	-	1.152	-	-	1.749	-	-	0.359	-	-	-	-	-	0.359						
3.2) 2.0.1. Install	A		-	-	1.206	-	-	1.036	-	-	1.435	-	-	0.358	-	-	-	-	-	0.358						
Subtotal: 3) T4776 Installation			-	-	3.941	-	-	2.188	-	-	3.184	-	-	0.717	-	-	-	-	-	0.717						
Total			-	-	25.514	-	-	17.140	-	-	11.029	-	-	0.717	-	-	-	-	-	0.717						

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
1) T4050 Tactical/Mobile																				
1.1) TOC/MTOC Inc 2.1 ^{(1)(t)}	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) TOC/MTOC 2.0.1 ^{(2)(t)}	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) T4050 Tactical/Mobile			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) TACAMO																				
2.1) TACAMO ^{(3)(t)}	B		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.2) Production Support	B		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) TACAMO			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3) T4776 Installation																				
3.1) 2.1 Install	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.2) 2.0.1. Install	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10								P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems							Aggregated Items Title: Tactical/Mobile (TacMobile) C4I Systems				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: 3) T4776 Installation			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Footnotes:

- (1) 1. Quantities represent separate Command & Control & Intelligence (C2I), Communications, and Mobility/Facility component system upgrades of TacMobile systems. 2. Unit cost represents an average, because TacMobile is a system of systems. Configuration of upgrade systems to be procured vary by site unique differences. 3. Install costs vary due to different equipment mixes, site specific requirements, and varied, world-wide locations. 4. FY15 procurement includes non recurring Fly Away Kit components, to meet JCIDS requirements. Unit cost for FY15 procurements will differ from previous years due to these unique procurements. These Fly Away Kits are delivered Turn Key and do not require inhouse integration. 5. Integration, pre-installation and checkout, packaging, and shipping require a 6 month lead time prior to installation.
- (2) 1) Quantities represent separate Command & Control & Intelligence (C2I), Communications, and Mobility/Facility component system upgrades of TacMobile systems. 2) Unit cost represents an average, because TacMobile is a system of systems. Configuration of upgrade and refresh systems to be procured vary by increment. 3) Install costs vary across fiscal years due to different equipment mixes, site specific requirements, and varied, world-wide locations. 4) Unit cost variances exist in Tech Refresh procurements in order to bring all TacMobile sites to a common configuration baseline. 5) Integration, pre-installation and checkout, packaging, and shipping require a 6 month lead time prior to installation. 6) TacMobile leverages efficiencies in contracting and economical order quantity benefits, for COTS and GOTS procurement items integrated into TacMobile components, by concurrently procuring similar items required for the fiscal year. The in-house integration and installation work can then be efficiently accomplished by sequentially integrating these items into the end item components, and fielded within scheduled fleet availability periods.
- (3) HEMP shelters are mobile assets. Associated installation costs are included in the procurement cost of the shelters (turnkey).

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10			P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems					Aggregated Items: Tactical/Mobile (TacMobile) C4I Systems				
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) T4050 Tactical/Mobile												
1.1) TOC/MTOC Inc 2.1 ⁽¹⁾		2014	SSC LANT / Charleston, SC	C / FFP	SSC LANT	Dec 2013	Feb 2014	8	995.000	Y		Sep 2013
1.1) TOC/MTOC Inc 2.1 ⁽¹⁾		2015	SSC LANT / Charleston, SC	C / FFP	SSC LANT	Dec 2014	Feb 2015	10	724.200	Y		Sep 2014
1.2) TOC/MTOC 2.0.1 ⁽²⁾		2014	SSC LANT / Charleston, SC	C / FFP	SSC LANT	Dec 2013	Jul 2014	8	295.500	Y		Aug 2013
1.2) TOC/MTOC 2.0.1 ⁽²⁾		2015	SSC LANT / Charleston, SC	C / FFP	SSC LANT	Dec 2014	Jul 2015	2	301.500	Y		Aug 2014
2) TACAMO												
2.1) TACAMO ⁽³⁾		2014	TBD ⁽⁴⁾ / TBD	C / IDIQ	SSC Pacific	Mar 2015	Jan 2016	3	1,489.000	N	Jan 2015	Jan 2015

Footnotes:

⁽⁴⁾ FY14 funds were received in September 2014 via ATR.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems	Modification Number / Title: 1 / Tactical/Mobile (TacMobile) C4I Systems- Tech Refresh

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	8.662	1.876	-	1.979	-	1.979	2.051	4.195	3.061	0.775	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	8.662	1.876	-	1.979	-	1.979	2.051	4.195	3.061	0.775	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	8.662	1.876	-	1.979	-	1.979	2.051	4.195	3.061	0.775	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Provides overarching technical modernization and technical refresh to fielded TacMobile systems that have not routinely been refreshed or upgraded and are now due to shift in Fleet CONOPS required to be restored to full systems capability.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems				Modification Number / Title: 1 / Tactical/Mobile (TacMobile) C4I Systems- Tech Refresh					
Models of Systems Affected: Various				Modification Type: Tech Refresh				Related RDT&E PEs: 0604231N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Tactical/Mobile (TacMobile) C4I Systems- Tech Refresh													
B Kits													
Recurring													
1.1.1) TOC - NonOrganic ⁽⁵⁾	2 / 1.284	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.284	
1.1.2) MTOC - NonOrganic	6 / 4.423	1 / 1.081	- / -	1 / 1.979	- / -	1 / 1.979	1 / 1.895	2 / 4.038	1 / 2.561	1 / 0.775	Continuing	Continuing	
1.1.3) FY2013 OCO Funding (JMAST Tech Refresh) - NonOrganic	6 / 2.025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.025	
Subtotal: Recurring	- / 7.732	- / 1.081	- / -	- / 1.979	- / -	- / 1.979	- / 1.895	- / 4.038	- / 2.561	- / 0.775	Continuing	Continuing	
Subtotal: Tactical/Mobile (TacMobile) C4I Systems-Tech Refresh	14 / 7.732	1 / 1.081	- / -	1 / 1.979	- / -	1 / 1.979	1 / 1.895	2 / 4.038	1 / 2.561	1 / 0.775	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 7.732	- / 1.081	- / -	- / 1.979	- / -	- / 1.979	- / 1.895	- / 4.038	- / 2.561	- / 0.775	Continuing	Continuing	
Installation													
Modification Item 1 of 1: Tactical/Mobile (TacMobile) C4I Systems- Tech Refresh	- / 0.930	- / 0.795	- / -	- / -	- / -	- / -	- / 0.156	- / 0.157	- / 0.500	- / -	Continuing	Continuing	
Subtotal: Installation	- / 0.930	- / 0.795	- / -	- / -	- / -	- / -	- / 0.156	- / 0.157	- / 0.500	- / -	Continuing	Continuing	
Total													
Total Cost (Procurement + Support + Installation)	8.662	1.876	-	1.979	-	1.979	2.051	4.195	3.061	0.775	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems			
				Modification Number / Title: 1 / Tactical/Mobile (TacMobile) C4I Systems- Tech Refresh			

Modification Item 1 of 1: Tactical/Mobile (TacMobile) C4I Systems- Tech Refresh

Manufacturer Information

Manufacturer Name: SSC LANT				Manufacturer Location: Charleston, SC			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 9			

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013		Dec 2015				
Delivery Dates	Feb 2014		Sep 2016				

Installation Information

Method of Implementation: [none specified]:: Installation Name: TacMobile C4I Systems Tech Refresh

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	12 / 0.930	2 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.430
FY 2014	- / -	1 / 0.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.295
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.156	- / -	- / -	- / -	- / -	1 / 0.156
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.157	- / -	- / -	- / -	1 / 0.157
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.325	- / -	- / -	2 / 0.325
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.175	- / -	- / -	1 / 0.175
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -	1 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Total	12 / 0.930	3 / 0.795	- / -	- / -	- / -	- / -	1 / 0.156	1 / 0.157	3 / 0.500	- / -	Continuing	Continuing

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	12	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	2	1	-	-	-	-	-	1	21
Out	12	-	-	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	3	-	-	-	-	-	1	21

Footnotes:

⁽⁵⁾ 1. Quantities represent separate Command & Control & Intelligence (C2I), Communications, and Mobility/Facility component system upgrades of TacMobile systems. 2. Unit cost represents an average, because TacMobile is a system of systems. Configuration of upgrade and refresh systems to be procured vary by Increment. 3. Install costs vary across fiscal years due to different equipment mixes, site specific requirements, and varied, world-wide locations. 4. Unit cost variances exist in Tech Refresh procurements in order to bring all TacMobile sites to a common configuration baseline. 5. FY14 requires no integration lead time. FY16 procures MTOC ELEVEN components. Tech Refresh differs from year to year based on requirements.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems	Modification Number / Title: 2 / Tactical Mobile (TacMobile) C4I Systems - Tech Refresh 2.1.1

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	3.801	5.737	10.904	-	10.904	12.490	10.544	4.993	2.161	0.200	50.830
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	3.801	5.737	10.904	-	10.904	12.490	10.544	4.993	2.161	0.200	50.830
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	3.801	5.737	10.904	-	10.904	12.490	10.544	4.993	2.161	0.200	50.830
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Provides technical modernization and technical refresh to fielded TacMobile Command and Control, Networking, and Communications systems necessary to support P-8A Poseidon Increment 2 and MQ-4C Triton Unmanned Aerial System (UAS) at their Initial Operating Capability (IOC).

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems					Modification Number / Title: 2 / Tactical Mobile (TacMobile) C4I Systems - Tech Refresh 2.1.1				
Models of Systems Affected: Inc 2.1				Modification Type: Upgrade					Related RDT&E PEs: 0604231N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Tactical Mobile (TacMobile) C4I Systems - Tech Refresh 2.1.1													
B Kits													
Recurring													
1.1.1) TOC - NonOrganic ⁽⁶⁾	- / -	2 / 1.703	2 / 1.404	6 / 4.242	- / -	6 / 4.242	6 / 4.301	6 / 4.388	3 / 2.231	- / -	- / -	25 / 18.269	
1.1.2) MTOC - NonOrganic	- / -	2 / 1.702	6 / 4.212	8 / 5.656	- / -	8 / 5.656	9 / 6.451	6 / 4.389	2 / 1.487	2 / 1.512	- / -	35 / 25.409	
1.1.3) Shore Pre-Installation Design - Organic	- / -	- / -	- / 0.121	- / 0.200	- / -	- / 0.200	- / 0.200	- / 0.200	- / -	- / -	- / -	- / 0.721	
Subtotal: Recurring	- / 0.000	- / 3.405	- / 5.737	- / 10.098	- / -	- / 10.098	- / 10.952	- / 8.977	- / 3.718	- / 1.512	- / -	- / 44.399	
Subtotal: Tactical Mobile (TacMobile) C4I Systems - Tech Refresh 2.1.1	- / -	4 / 3.405	8 / 5.737	14 / 10.098	- / -	14 / 10.098	15 / 10.952	12 / 8.977	5 / 3.718	2 / 1.512	- / -	60 / 44.399	
Subtotal: Procurement, All Modification Items	- / 0.000	- / 3.405	- / 5.737	- / 10.098	- / -	- / 10.098	- / 10.952	- / 8.977	- / 3.718	- / 1.512	- / -	- / 44.399	
Installation													
Modification Item 1 of 1: Tactical Mobile (TacMobile) C4I Systems - Tech Refresh 2.1.1	- / 0.000	- / 0.396	- / -	- / 0.806	- / -	- / 0.806	- / 1.538	- / 1.567	- / 1.275	- / 0.649	- / 0.200	- / 6.431	
Subtotal: Installation	- / 0.000	- / 0.396	- / -	- / 0.806	- / -	- / 0.806	- / 1.538	- / 1.567	- / 1.275	- / 0.649	- / 0.200	- / 6.431	
Total													
Total Cost (Procurement + Support + Installation)	0.000	3.801	5.737	10.904	-	10.904	12.490	10.544	4.993	2.161	0.200	50.830	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10		P-1 Line Item Number / Title: 2906 / Tactical/Mobile C4I Systems			Modification Number / Title: 2 / Tactical Mobile (TacMobile) C4I Systems - Tech Refresh 2.1.1		

Modification Item 1 of 1: Tactical Mobile (TacMobile) C4I Systems - Tech Refresh 2.1.1

Manufacturer Information							
Manufacturer Name: SSC LANT				Manufacturer Location: Charleston, SC			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 6			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jan 2014	Jan 2015	Jan 2016				
Delivery Dates	Jul 2014	Jul 2015	Jul 2016				

Installation Information

Method of Implementation: [none specified]:: Installation Name: TacMobile C4I Systems Technical Refresh 2.1.1

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	4 / 0.396	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.396
FY 2015	- / -	- / -	- / -	8 / 0.806	- / -	8 / 0.806	- / -	- / -	- / -	- / -	- / -	8 / 0.806
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	14 / 1.538	- / -	- / -	- / -	- / -	14 / 1.538
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.567	- / -	- / -	- / -	15 / 1.567
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.275	- / -	- / -	12 / 1.275
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.649	- / -	5 / 0.649
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.200	2 / 0.200
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	4 / 0.396	- / -	8 / 0.806	- / -	8 / 0.806	14 / 1.538	15 / 1.567	12 / 1.275	5 / 0.649	2 / 0.200	60 / 6.431

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	4	-	-	-	-	-	4	4	-	-	5	5	4	-	5	10	-	-	6	6	-	-	3	2	-	2	60
Out	-	-	-	-	4	-	-	-	-	-	4	4	-	-	5	5	4	-	5	10	-	-	6	6	-	-	3	2	-	2	60

Footnotes:

⁽⁶⁾ 1. Quantities represent separate Command & Control & Intelligence (C2I), Communications, and Mobility/Facility component system upgrades of TacMobile systems. 2. Unit cost represents an average, because TacMobile is a system of systems. Configuration of upgrade systems to be procured vary by site unique differences. 3. Install costs vary due to different equipment mixes, site specific requirements, and varied, world-wide locations. 4. FY15-19 procurements require a 6 month lead time for integration, pre-installation and checkout, packaging, and shipping.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment							P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)					
ID Code (A=Service Ready, B=Not Service Ready) : B				Program Elements for Code B Items:				Other Related Program Elements: 0305208N				
Line Item MDAP/MAIS Code: MN40		Item MDAP/MAIS Code(s):										
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	108.774	17.350	23.649	31.809	-	31.809	28.374	22.538	7.885	12.315	285.500	538.194
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	108.774	17.350	23.649	31.809	-	31.809	28.374	22.538	7.885	12.315	285.500	538.194
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	108.774	17.350	23.649	31.809	-	31.809	28.374	22.538	7.885	12.315	285.500	538.194
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	1.446	1.287	2.319	-	2.319	1.022	1.471	0.557	0.001	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Distributed Common Ground System - Navy (DCGS-N) is the Navy's portion of the Under Secretary of Defense, Intelligence (USD (I)) DCGS-N Family of Systems (FoS). The Department of Defense (DoD) has defined a DCGS architecture that will be compatible and interoperable across all of the Services' Intelligence, Surveillance and Reconnaissance (ISR) systems and operations. DCGS accesses and ingests data from space borne, airborne, subsurface, and surface ISR collection assets, intelligence databases and intelligence producers. This collected data is shared across a Joint enterprise using the DCGS Integration Backbone (DIB) and in time, the Defense Intelligence Information Enterprise (DI2E) to enhance access and sharing of ISR information across Joint forces through the use of common enterprise standards and services. DCGS FoS supports Joint Task Force (JTF)-level and below combat operations with critical intelligence for battle management and information dominance across the full spectrum of operations, including peace, conflict, war, and Overseas Contingency Operations (OCO). DCGS is a cooperative effort between the services, agencies, and DoD to provide systems capable of receiving, processing, exploiting, and disseminating data from airborne and national reconnaissance platforms. DCGS-N core components include the Analyst Work Station from the Global Command and Control System (GCCS) - Integrated Imagery and Intelligence (I3), Generic Area Limitation Environment (GALE) Signal Intelligence (SIGINT), Common Geo-positioning Services (CGS), Image Product Library (IPL), Modernized Integrated Database (MIDB), Joint Concentrator Architecture (JCA) and Track Management Services.

The DCGS-N system represents the integration of 1) The processing and exploitation of tactical and Imagery Intelligence (IMINT) and Signals Intelligence (SIGINT); 2) Precision target geopositioning, mensuration, and imagery dissemination capabilities; 3) Selected national IMINT requirements and processing capabilities from the National Geospatial-Intelligence Agency (NGA); and 4) Sharing of Intelligence, Surveillance, Reconnaissance and Targeting and Command and Control information via DIB, DI2E, and Net-Centric Enterprise Services (NCES) standards with a wide range of customers (e.g., Global Command and Control System - Maritime (GCCS-M)), Joint Mission Planning System (JMPS), and many others.

The DCGS-N Enterprise Node (DEN), which incorporates current DIB standards and DI2E policy, facilitates interoperability and data sharing among the DCGS FoS. DCGS-N ensures compliance with the DoD DCGS network architecture.

The Navy is establishing an ISR Enterprise way ahead that will emphasize a reach back strategy to provide intelligence products to support deployed ship and shore operations. The Navy will also migrate to a Service Oriented Architecture (SOA) that requires the development, integration, and testing of a Maritime ISR Enterprise capability, development and migration of ISR SOA applications, and development and integration to leverage a Common Computing Environment (CCE). Additionally, DCGS-N will become the focal point for migration of Maritime Domain Awareness (MDA) fusion and analysis (MFAS) tool applications for the Navy.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment		P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items:	Other Related Program Elements: 0305208N
Line Item MDAP/MAIS Code: MN40	Item MDAP/MAIS Code(s):	
DCGS-N Increment 2 addresses a critical shortfall in Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) capability and capacity to support operational, tactical planning, and execution across the full range of joint military operations. Existing TCPED shortfalls will be exacerbated by planned Navy, Joint, and Allied fielding of new Intelligence, Surveillance and Reconnaissance (ISR) platforms. Currently fielded systems provide localized processing capabilities that will be overwhelmed in future years without a significant change in the way the Navy processes, exploits and disseminates intelligence data. DCGS-N Increment 2 will deliver all source fusion and analytical capabilities; provide Maritime Domain Awareness (MDA) capabilities and integrate Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) capabilities to improve the use and analysis of sensor and platform data. Distributed Common Ground System- Navy (DCGS-N) Increment 2 will be based on an enterprise solution to share this information across commands, services, and agencies to promote shared situational awareness. DCGS-N Increment 2 consists of multiple releases. The first release provides an enhanced Navy Intelligence, Surveillance and Reconnaissance (ISR) enterprise that converges and builds on the DCGS-N Increment 1 and Maritime Domain Awareness Enterprise Nodes; leverages the Defense Intelligence Information Enterprise (DI2E); is compliant with the Common Computing Environment (CCE); federates ISR and TCPED workflow and production improving throughput through automation; exploits new and evolving unmanned systems sensor data; provides Multi-Intelligence (Multi-INT) cross-queuing and modular tools. The second release enhances afloat ISR capabilities by providing a set of software centric tools providing Multi-INT fusion and analysis, behavior prediction and intelligent knowledge management designed to operate in disconnected or denied communications environment. Follow-on releases will be developed based on Fleet requirements. Intelligence Carry-On Program (ICOP) is a suite of multi-source intelligence and analytical capabilities which includes an integrated Three-Dimensional (3-D) operational picture displaying intelligence and other data sources to provide a richer and more complete picture of the battle space on Unit Level platforms. The system supports a full motion video capability that receives, processes, exploits, and disseminates organic and non-organic data as well as the ability to process and correlate Electronic Intelligence (ELINT) and external Communications Intelligence (COMINT Externals). It integrates mature Commercial Off-the-Shelf (COTS) and Government Off-the-Shelf (GOTS) applications with shared storage and communication paths to reach back to the DCGS-N Enterprise Node (DEN), and it provides data sharing to the Maritime Operations Centers (MOC) and national ISR systems, making tactical users a part of the larger ISR enterprise. ICOP is subset to DCGS-N capabilities for Unit Level platforms. DCGS-N only fields on Force Level platforms. There are (91) Unit Level platforms identified to receive permanent ICOP Foundation Kit installations. ICOP Foundation Kits include all cabling and mounting plate foundations for antennas and ICOP box. The (91) Unit Level platforms will pull from a (35) ICOP System rotatable pool based on deployment. DCGS-N Increment 1 Product Improvement includes DCGS-N training equipment, DCGS-N hardware and software technical refresh, ancillary equipment and upgrades to extend service life and provide the fleet imagery intelligence capability. Equipment support includes the assembly and integration associated with the product improvements or modification.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment				P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)				
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items:			Other Related Program Elements: 0305208N		
Line Item MDAP/MAIS Code: MN40		Item MDAP/MAIS Code(s):						
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / ICOP	P-5, P-5a, P-21		- / 0.000	- / 0.700	- / 9.376	- / 19.055	- / -	- / 19.055
1 / DCGS-N INCREMENT 1 Ashore (New Model)	P-3a		- / 26.905	- / 7.826	- / -	- / -	- / -	- / -
2 / PRODUCT IMPROVEMENT Afloat (Tech Refresh/Upgrade)	P-3a		- / 54.739	- / 6.686	- / 10.704	- / 8.220	- / -	- / 8.220
3 / PRODUCT IMPROVEMENT Ashore (Tech Refresh/Upgrades)	P-3a		- / 27.130	- / 2.138	- / 3.569	- / 4.534	- / -	- / 4.534
4 / DCGS-N INCREMENT 2 Afloat (New Model)	P-3a		- / 0.000	- / -	- / -	- / -	- / -	- / -
5 / DCGS-N INCREMENT 2 Ashore (New Model)	P-3a		- / 0.000	- / -	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 108.774	- / 17.350	- / 23.649	- / 31.809	- / -	- / 31.809
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / ICOP	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / -
1 / DCGS-N INCREMENT 1 Ashore (New Model)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 34.731
2 / PRODUCT IMPROVEMENT Afloat (Tech Refresh/Upgrade)	P-3a		- / 0.640	- / 0.511	- / -	- / -	- / -	- / 81.500
3 / PRODUCT IMPROVEMENT Ashore (Tech Refresh/Upgrades)	P-3a		- / 6.806	- / -	- / -	- / -	- / -	- / 44.177
4 / DCGS-N INCREMENT 2 Afloat (New Model)	P-3a		- / 3.039	- / 16.858	- / 2.325	- / 6.950	- / 285.500	- / 314.672
5 / DCGS-N INCREMENT 2 Ashore (New Model)	P-3a		- / 4.047	- / 5.169	- / 5.560	- / 5.365	- / -	- / 20.141
Total Gross/Weapon System Cost			- / 28.374	- / 22.538	- / 7.885	- / 12.315	- / 285.500	- / 538.194
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.								
Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.								

Justification:

DCGS-N Increment 1 planned procurements in FY16 include (9) DCGS-N Increment 1 technical refreshes that consist of (2)1-rack afloat technical refreshes, (2) 2-rack Ashore technical refreshes, and (5) End-of-Life Hardware Upgrades. These DCGS-N installations will replace the currently fielded legacy systems and leverage the Navy's Common Computing Environment (CCE) as applicable as well as provide upgrades to extend service life. In addition ICOP planned procurements in FY16 include (38) ICOP Foundation Kits and (17) ICOP systems. ICOP Foundation Kits will be permanently installed on Unit Level Platforms while ICOP systems will make-up a rotatable pool of non-permanent carry-on systems.

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Exhibit P-5, Cost Analysis: PB 2016 Navy								Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)					Item Number / Title [DODIC]: 1 / ICOP									
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total						
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-						
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	0.700	9.376	19.055	-	19.055	-	-	-	-	-	-						
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-						
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	0.700	9.376	19.055	-	19.055	-	-	-	-	-	-						
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-						
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	0.700	9.376	19.055	-	19.055	-	-	-	-	-	-						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-						
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - ICOP Cost																		
Recurring Cost																		
1.1.1) ICOP Foundation Kit Procurement ^(†) (1)	-	-	0.000	-	-	-	80.000	13	1.040	80.000	38	3.040	-	-	-	80.000	38	3.040
1.1.2) ICOP System Procurement ^(†) (2)	-	-	0.000	-	-	-	450.000	10	4.500	450.000	17	7.650	-	-	-	450.000	17	7.650
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	5.540	-	-	10.690	-	-	-	-	-	10.690
Subtotal: Hardware - ICOP Cost	-	-	0.000	-	-	-	-	-	5.540	-	-	10.690	-	-	-	-	-	10.690
Hardware - INSTALLATIONS Cost																		
Recurring Cost																		
2.1.1) ICOP Foundation Kit Installation Afloat	-	-	0.000	-	-	-	-	-	1.950	-	-	5.700	-	-	-	-	-	5.700
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	1.950	-	-	5.700	-	-	-	-	-	5.700
Subtotal: Hardware - INSTALLATIONS Cost	-	-	0.000	-	-	-	-	-	1.950	-	-	5.700	-	-	-	-	-	5.700
Support Cost																		
3.1) ICOP Foundation Kit Production Support	-	-	0.000	-	-	-	-	-	0.068	-	-	0.198	-	-	-	-	-	0.198
3.2) ICOP System Production Support	-	-	0.000	-	-	-	-	-	0.293	-	-	0.497	-	-	-	-	-	0.497

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10						P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)						Item Number / Title [DODIC]: 1 / ICOP						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
	3.3) ICOP Foundation Kit DSA	-	-	0.000	-	-	0.700	-	-	1.525	-	-	1.970	-	-	-	-	-
Subtotal: Support Cost	-	-	0.000	-	-	0.700	-	-	1.886	-	-	2.665	-	-	-	-	-	2.665
Gross/Weapon System Cost	-	-	0.000	-	-	0.700	-	-	9.376	-	-	19.055	-	-	-	-	-	19.055
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
	Hardware - ICOP Cost																	
Recurring Cost																		
1.1.1) ICOP Foundation Kit Procurement ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) ICOP System Procurement ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - ICOP Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - INSTALLATIONS Cost																		
Recurring Cost																		
2.1.1) ICOP Foundation Kit Installation Afloat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - INSTALLATIONS Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Cost																		
3.1) ICOP Foundation Kit Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) ICOP System Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.3) ICOP Foundation Kit DSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)	Item Number / Title [DODIC]: 1 / ICOP
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
Remarks: Intelligence Carry-On Program (ICOP) is a suite of multi-source intelligence and analytical capabilities which includes an integrated Three-Dimensional (3-D) operational picture displaying intelligence and other data sources to provide a richer and more complete picture of the battle space on Unit Level platforms. The system supports a full motion video capability that receives, processes, exploits, and disseminates organic and non-organic data as well as the ability to process and correlate Electronic Intelligence (ELINT) and external Communications Intelligence (COMINT Externals). It integrates a menu of mature Commercial Off-the-Shelf (COTS) and Government Off-the-Shelf (GOTS) applications with shared storage and communication paths to reach back to the DCGS-N Enterprise Node (DEN), and to provide data sharing to the Maritime Operations Centers (MOC) and national ISR systems, making tactical users a part of the larger ISR enterprise.		
(t) indicates the presence of a P-5a		
Footnotes: (1) ICOP Foundation Kit procurements include all cabling and mounting plate foundations for antennas/receivers. ICOP Foundation Kits will be permanently installed on (91) Unit Level platforms. The Unit Level platforms will pull from the ICOP system rotatable pool when deploying. ICOP Foundation Kit planned procurements in FY16 include (38) Kits. (2) ICOP System procurements include an ICOP Box and (2) CM3 Antennas. (2) CM3 Antennas provides the platform with approximately 360 degree coverage. ICOP Systems will not be permanently installed on a Platform. After procurement, ICOP Systems will become apart of a rotatable pool for deploying Unit Level Platforms. ICOP Systems planned procurements in FY16 include (17) ICOP Systems. ICOP systems will make-up a rotatable pool of non-permanent carry-on systems.		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)				Item Number / Title [DODIC]: 1 / ICOP				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) ICOP Foundation Kit Procurement		2015	SSC PAC ⁽³⁾ / San Diego, CA	WR	San Diego	Oct 2014	Nov 2014	13	80.000	N	Oct 2014	
1.1.1) ICOP Foundation Kit Procurement		2016	SSC PAC ⁽³⁾ / San Diego, CA	WR	San Diego	Oct 2015	Nov 2015	38	80.000	N	Oct 2014	
1.1.2) ICOP System Procurement ^(†)		2015	SSC PAC / San Diego, CA	WR	San Diego	Oct 2014	Jan 2015	10	450.000	N	Oct 2014	
1.1.2) ICOP System Procurement ^(†)		2016	SSC PAC / San Diego, CA	WR	San Diego	Oct 2015	Jan 2016	17	450.000	N	Oct 2014	

^(†) indicates the presence of a P-21

Footnotes:

⁽³⁾ Foundations consist of COTS items.

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015														
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10										P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)										Item Number / Title [DODIC]: 1 / ICOP														
Cost Elements <i>(Units in Each)</i>								Fiscal Year 2015										Fiscal Year 2016																
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			
1.1.2) ICOP System Procurement ⁽²⁾																																		
	1	2015	NAVY	10	-	10	A	-	-	-	5	5																					-	
	1	2016	NAVY	17	-	17											A	-	-	-	5	5	5	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	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10					P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)				Item Number / Title [DODIC]: 1 / ICOP			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	SSC PAC - San Diego, CA	1	30	40	-	-	3	3	-	-	3	3

"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 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)					Modification Number / Title: 1 / DCGS-N INCREMENT 1 Ashore			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	26.905	7.826	-	-	-	-	-	-	-	-	-	34.731
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	26.905	7.826	-	-	-	-	-	-	-	-	-	34.731
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	26.905	7.826	-	-	-	-	-	-	-	-	-	34.731
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: DCGS-N brings together the proven imagery exploitation capabilities of Joint Services Imagery Processing System - Navy (JSIPS-N) Tactical Input Segment (TIS) and the precision mensuration capability of the Precision Targeting Workstation (PTW), merges them with the Multi-Intelligence capability developed by the Joint Fires Network (JFN) and disseminates this throughout the ashore and afloat nodes. It supports Joint Task Force (JTF) -level combat operations and supports Joint Task Force Commanders and below with critical intelligence for battle management and information dominance across the full spectrum of operations, including peace, conflict, war, and the Overseas Contingency Operations (OCO).												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)				Modification Number / Title: 1 / DCGS-N INCREMENT 1 Ashore					
Models of Systems Affected: Shore			Modification Type: New Model					Related RDT&E PEs: 0305208N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: DCGS-N INCREMENT 1 Ashore													
B Kits													
Recurring													
1.1.1) Procurement Block 2 - NonOrganic ⁽⁴⁾	- / -	3 / 4.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 4.250	
Subtotal: Recurring	- / 0.000	- / 4.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.250	
Non-Recurring													
1.2.1) Procurement Block 1 - NonOrganic	10 / 20.680	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 20.680	
Subtotal: Non-Recurring	- / 20.680	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.680	
Subtotal: DCGS-N INCREMENT 1 Ashore	10 / 20.680	3 / 4.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 24.930	
Subtotal: Procurement, All Modification Items	- / 20.680	- / 4.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 24.930	
Support (All Modification Items)													
2.1) Production Support	- / 0.363	- / 0.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.639	
Subtotal: Support	- / 0.363	- / 0.276	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.639	
Installation													
Modification Item 1 of 1: DCGS-N INCREMENT 1 Ashore	- / 5.862	- / 3.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.162	
Subtotal: Installation	- / 5.862	- / 3.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.162	
Total													
Total Cost (Procurement + Support + Installation)	26.905	7.826	-	-	-	-	-	-	-	-	-	34.731	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10					P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)										Modification Number / Title: 1 / DCGS-N INCREMENT 1 Ashore																
Modification Item 1 of 1: DCGS-N INCREMENT 1 Ashore																															
Manufacturer Information																															
Manufacturer Name: BAE												Manufacturer Location: SAN DIEGO, CA																			
Administrative Leadtime (in Months): 2												Production Leadtime (in Months): 6																			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020																								
Contract Dates	Dec 2013																														
Delivery Dates	Jun 2014																														
Installation Information																															
Method of Implementation: Method:: Installation Name: DCGS-N Increment 1 Ashore																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		10 / 5.862	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 5.862																	
FY 2014		- / -	3 / 3.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.300																	
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
Total		10 / 5.862	3 / 3.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 9.162																	
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	10	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Out	10	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Footnotes:																															
(4) DCGS-N Inc 1 Block 1 and Block 2 unit costs represent an average cost based on 3 Rack, 2 Rack, and 1 Rack configurations dependent on specific platform, network, infrastructure versions, and alignment with the Navy's Network Infrastructure (Common Computing Environment (CCE)). In addition, unit costs continue to be updated based on actuals costs, locality and availability of platforms, and specific integration tasking associated with external dependent systems (e.g. Global Command and Control System - Maritime (GCCS-M), Radiant Mercury (RM), and others).																															

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)	Modification Number / Title: 2 / PRODUCT IMPROVEMENT Afloat

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	54.739	6.686	10.704	8.220	-	8.220	0.640	0.511	-	-	-	81.500
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	54.739	6.686	10.704	8.220	-	8.220	0.640	0.511	-	-	-	81.500
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	54.739	6.686	10.704	8.220	-	8.220	0.640	0.511	-	-	-	81.500
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Tech Refresh/Upgrade integration procures Commerical Off-The-Shelf/Non-Developmental Item (COTS/NDI) equipment to replace obsolete and unsupportable equipment for the DCGS-N program for the processing and exploitation of tactical and Imagery Intelligence (IMINT) and Signal Intelligence (SIGINT); Precision target geopositioning, mensuration, and imagery dissemination capabilities; Selected national IMINT requirements and processing capabilities from the National Geospatial-Intelligence Agency (NGA); Sharing of Intelligence, Surveillance, Reconnaissance and Targeting (ISRT) and Command and Control (C2) information via DCGS Integrated Backbone (DIB) and Net-Centric Enterprise Services (NCES) standards. Specifically, this funds tech refresh/upgrades/Engineering Change Proposals (ECPs) to its subsystems to provide access and ingest data from space borne, airborne, subsurface, and surface ISR collection assets, intelligence databases and intelligence producers access and ingest data from space borne, airborne, subsurface, and surface ISR collection assets, intelligence databases and intelligence producers.

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Exhibit P-3a, Individual Modification: PB 2016 Navy															Date: February 2015																
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10										P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)										Modification Number / Title: 2 / PRODUCT IMPROVEMENT Afloat											
Modification Item 1 of 1: PRODUCT IMPROVEMENT Afloat																															
Manufacturer Information																															
Manufacturer Name: BAE															Manufacturer Location: SAN DIEGO, CA																
Administrative Leadtime (in Months): 2															Production Leadtime (in Months): 6																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Dec 2013				Dec 2014				Dec 2015																					
Delivery Dates		Jun 2014				Jun 2015				Jun 2016																					
Installation Information																															
Method of Implementation: Method:: Installation Name: Product Improvement Afloat DCGS-N/JSIPS																															
Installation Cost		Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		14 / 20.471		1 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		15 / 20.471							
FY 2014		- / -		2 / 2.350		1 / 0.800		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 3.150							
FY 2015		- / -		- / -		4 / 3.200		2 / 1.600		- / -		2 / 1.600		- / -		- / -		- / -		- / -		- / -		6 / 4.800							
FY 2016		- / -		- / -		- / -		6 / 2.000		- / -		6 / 2.000		- / -		- / -		- / -		- / -		- / -		6 / 2.000							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		1 / 0.100		- / -		- / -		- / -		- / -		1 / 0.100							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		1 / 0.100		- / -		- / -		- / -		1 / 0.100							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total		14 / 20.471		3 / 2.350		5 / 4.000		8 / 3.600		- / -		8 / 3.600		1 / 0.100		1 / 0.100		- / -		- / -		- / -		32 / 30.621							
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	14	1	-	-	1	1	1	2	2	-	2	3	1	2	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	32
Out	14	1	-	-	1	1	1	2	2	-	2	3	1	2	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	32
Footnotes:																															
(5) DCGS-N Inc 1 Block 1 and Block 2 unit costs represent an average cost based on 3 Rack, 2 Rack, and 1 Rack configurations dependent on specific platform (CVN, LHD, LCC, LHA), network, infrastructure versions, and alignment with the Navy's Network Infrastructure (Common Computing Environment (CCE)). In addition, unit costs continue to be updated based on actuals costs, locality and availability of platforms, and specific integration tasking associated with external dependent systems (e.g. Global Command and Control System - Maritime (GCCS-M), Radiant Mercury (RM), and others). DCGS-N Increment 1 planned procurements in FY16 include (9) DCGS-N Increment 1 technical refreshes that consist of (2) 1-rack afloat technical refreshes, (2) 2-rack Ashore technical refreshes, and (5) End-of-Life Hardware Upgrades. These DCGS-N installations will replace the currently fielded legacy systems and leverage the Common Computing Environment (CCE) as applicable as well as upgrade End-of-life hardware and software, effectivities, and security updates. First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the																															

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)	Modification Number / Title: 2 / PRODUCT IMPROVEMENT Afloat
beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)					Modification Number / Title: 3 / PRODUCT IMPROVEMENT Ashore			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	27.130	2.138	3.569	4.534	-	4.534	6.806	-	-	-	-	44.177
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	27.130	2.138	3.569	4.534	-	4.534	6.806	-	-	-	-	44.177
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	27.130	2.138	3.569	4.534	-	4.534	6.806	-	-	-	-	44.177
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Tech Refresh/Upgrade integration procures Commerical Off-The-Shelf/Non-Developmental Item (COTS/NDI) equipment to replace obsolete and unsupportable equipment for the DCGS-N and Joint Services Imagery Processing System - Navy (JSIPS-N) programs for the processing and exploitation of tactical and Imagery Intelligence (IMINT) and Signal Intelligence (SIGINT); Precision target geopositioning, mensuration, and imagery dissemination capabilities; Selected national IMINT requirements and processing capabilities from the National Geospatial-Intelligence Agency (NGA); Sharing of Intelligence, Surveillance, Reconnaissance and Targeting (ISRT) and Command and Control (C2) information via DCGS Integrated Backbone (DIB) and Net-Centric Enterprise Services (NCES) standards. Specifically, this funds tech refresh/upgrades/Engineering Change Proposals (ECPs) to its subsystems to provide access and ingest data from space borne, airborne, subsurface, and surface ISR collection assets, intelligence databases and intelligence producers access and ingest data from space borne, airborne, subsurface, and surface ISR collection assets, intelligence databases and intelligence producers.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)				Modification Number / Title: 3 / PRODUCT IMPROVEMENT Ashore					
Models of Systems Affected: Shore			Modification Type: Tech Refresh/Upgrades					Related RDT&E PEs: 0305208N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: PRODUCT IMPROVEMENT Ashore													
B Kits													
Recurring													
1.1.1) DCGS-N Tech Refresh/Upgrade - NonOrganic ⁽⁶⁾	2 / 1.141	1 / 2.008	1 / 1.000	3 / 2.380	- / -	3 / 2.380	3 / 3.856	- / -	- / -	- / -	- / -	10 / 10.385	
1.1.2) JSIPS-N Tech Refresh/Upgrade - NonOrganic	12 / 20.832	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 20.832	
Subtotal: Recurring	- / 21.973	- / 2.008	- / 1.000	- / 2.380	- / -	- / 2.380	- / 3.856	- / -	- / -	- / -	- / -	- / 31.217	
Subtotal: PRODUCT IMPROVEMENT Ashore	14 / 21.973	1 / 2.008	1 / 1.000	3 / 2.380	- / -	3 / 2.380	3 / 3.856	- / -	- / -	- / -	- / -	22 / 31.217	
Subtotal: Procurement, All Modification Items	- / 21.973	- / 2.008	- / 1.000	- / 2.380	- / -	- / 2.380	- / 3.856	- / -	- / -	- / -	- / -	- / 31.217	
Support (All Modification Items)													
2.1) Production Support	- / 0.073	- / 0.130	- / 0.064	- / 0.154	- / -	- / 0.154	- / 0.250	- / -	- / -	- / -	- / -	- / 0.671	
Subtotal: Support	- / 0.073	- / 0.130	- / 0.064	- / 0.154	- / -	- / 0.154	- / 0.250	- / -	- / -	- / -	- / -	- / 0.671	
Installation													
Modification Item 1 of 1: PRODUCT IMPROVEMENT Ashore	- / 5.084	- / -	- / 2.505	- / 2.000	- / -	- / 2.000	- / 2.700	- / -	- / -	- / -	- / -	- / 12.289	
Subtotal: Installation	- / 5.084	- / -	- / 2.505	- / 2.000	- / -	- / 2.000	- / 2.700	- / -	- / -	- / -	- / -	- / 12.289	
Total													
Total Cost (Procurement + Support + Installation)	27.130	2.138	3.569	4.534	-	4.534	6.806	-	-	-	-	44.177	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)	Modification Number / Title: 3 / PRODUCT IMPROVEMENT Ashore

Modification Item 1 of 1: PRODUCT IMPROVEMENT Ashore

Manufacturer Information

Manufacturer Name: BAE	Manufacturer Location: SAN DIEGO, CA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Jun 2014	Jun 2015	Jun 2016				

Installation Information

Method of Implementation: Method:: Installation Name: Product Improvement Ashore DCGS-N/JSIPS-N

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	14 / 5.084	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 5.084
FY 2014	- / -	- / -	1 / 1.605	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.605
FY 2015	- / -	- / -	1 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.900
FY 2016	- / -	- / -	- / -	3 / 2.000	- / -	3 / 2.000	- / -	- / -	- / -	- / -	- / -	3 / 2.000
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.700	- / -	- / -	- / -	- / -	3 / 2.700
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	14 / 5.084	- / -	2 / 2.505	3 / 2.000	- / -	3 / 2.000	3 / 2.700	- / -	- / -	- / -	- / -	22 / 12.289

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	14	-	-	-	-	-	-	1	1	-	-	1	2	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	22
Out	14	-	-	-	-	-	-	1	1	-	-	1	2	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	22

Footnotes:

⁽⁶⁾ DCGS-N Inc 1 Block 1 and Block 2 unit costs represent an average cost based on 5 Rack, 3 Rack, 2 Rack, and 1 Rack configurations dependent on specific platform (CVN, LHD, LCC, LHA), network, infrastructure versions, and alignment with the Navy's Network Infrastructure (Common Computing Environment (CCE)). In addition, unit costs continue to be updated based on actuals costs, locality and availability of platforms, and specific integration tasking associated with external dependent systems (e.g. Global Command and Control System - Maritime (GCCS-M), Radiant Mercury (RM), and others). DCGS-N Increment 1 Block 2 planned procurements in FY16 include (9) DCGS-N Increment 1 technical refreshes that consist of (2) 1-rack afloat technical refreshes, (2) 2-rack Ashore technical refreshes, and (5) End-of-Life Hardware Upgrades. These DCGS-N installations will replace the currently fielded legacy systems and leverage the Common Computing Environment (CCE) as applicable as well as upgrade End-of-life hardware and software, effectivities, and security updates.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)					Modification Number / Title: 4 / DCGS-N INCREMENT 2 Afloat			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	3.039	16.858	2.325	6.950	285.500	314.672
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	3.039	16.858	2.325	6.950	285.500	314.672
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	3.039	16.858	2.325	6.950	285.500	314.672
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: DCGS-N Increment 2 addresses a critical shortfall in Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) capability and capacity to support operational, tactical planning, and execution across the full range of joint military operations. Existing TCPED shortfalls will be exacerbated by planned Navy, Joint, and Allied fielding of new Intelligence, Surveillance and Reconnaissance (ISR) platforms. Currently fielded systems provide localized processing capabilities that will be overwhelmed in future years without a significant change in the way the Navy processes, exploits and disseminates intelligence data. DCGS-N Increment 2 will deliver all source fusion and analytical capabilities; provide Maritime Domain Awareness (MDA) capabilities; integrate Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) capabilities to improve the use and analysis of sensor and platform data; based on an enterprise solution to share this information across commands, services, and agencies to promote shared situational awareness.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)				Modification Number / Title: 4 / DCGS-N INCREMENT 2 Afloat					
Models of Systems Affected: Ship				Modification Type: New Model				Related RDT&E PEs: 0305208N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: DCGS-N INCREMENT 2 Afloat													
B Kits													
Recurring													
1.1.1) Procurement - NonOrganic ⁽⁷⁾	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.600	5 / 13.102	- / -	2 / 5.300	- / 266.943	8 / 287.945	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.600	- / 13.102	- / -	- / 5.300	- / 266.943	- / 287.945	
Subtotal: DCGS-N INCREMENT 2 Afloat	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.600	5 / 13.102	- / -	2 / 5.300	- / 266.943	8 / 287.945	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.600	- / 13.102	- / -	- / 5.300	- / 266.943	- / 287.945	
Support (All Modification Items)													
2.1) Production Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.169	- / 0.851	- / -	- / 0.345	- / 18.557	- / 19.922	
2.2) DSA	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.270	- / 0.405	- / 0.225	- / 0.405	- / -	- / 1.305	
Subtotal: Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.439	- / 1.256	- / 0.225	- / 0.750	- / 18.557	- / 21.227	
Installation													
Modification Item 1 of 1: DCGS-N INCREMENT 2 Afloat	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.500	- / 2.100	- / 0.900	- / -	- / 5.500	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.500	- / 2.100	- / 0.900	- / -	- / 5.500	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	3.039	16.858	2.325	6.950	285.500	314.672	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10										P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)										Modification Number / Title: 4 / DCGS-N INCREMENT 2 Afloat												
Modification Item 1 of 1: DCGS-N INCREMENT 2 Afloat																																
Manufacturer Information																																
Manufacturer Name: TBD															Manufacturer Location: TBD																	
Administrative Leadtime (in Months):															Production Leadtime (in Months):																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020						
Contract Dates																																
Delivery Dates																																
Installation Information																																
Method of Implementation: [none specified]:: Installation Name: Procurement																																
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																			
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																			
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.700	- / -	- / -	- / -	1 / 0.700																			
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.800	3 / 2.100	- / -	- / -	5 / 3.900																			
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.900	1 / -	2 / 0.900																			
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																			
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.500	3 / 2.100	1 / 0.900	1 / -	8 / 5.500																			
Installation Schedule																																
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	2	1	-	-	-	-	-	1	1	8
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	2	1	-	-	-	-	-	1	1	8
Footnotes: (7) DCGS-N Inc 2 unit costs represent an average cost based on specific platform, network, infrastructure versions, and alignment with the Navy's Network Infrastructure (Common Computing Environment (CCE)). In addition, unit costs continue to be updated based on latest estimated costs.																																

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)	Modification Number / Title: 5 / DCGS-N INCREMENT 2 Ashore

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	4.047	5.169	5.560	5.365	-	20.141
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	4.047	5.169	5.560	5.365	-	20.141
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	4.047	5.169	5.560	5.365	-	20.141
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DCGS-N Increment 2 addresses a critical shortfall in Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) capability and capacity to support operational, tactical planning, and execution across the full range of joint military operations. Existing TCPED shortfalls will be exacerbated by planned Navy, Joint, and Allied fielding of new Intelligence, Surveillance and Reconnaissance (ISR) platforms. Currently fielded systems provide localized processing capabilities that will be overwhelmed in future years without a significant change in the way the Navy processes, exploits and disseminates intelligence data. DCGS-N Increment 2 will deliver all source fusion and analytical capabilities; provide Maritime Domain Awareness (MDA) capabilities; integrate Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) capabilities to improve the use and analysis of sensor and platform data; based on an enterprise solution to share this information across commands, services, and agencies to promote shared situational awareness.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)				Modification Number / Title: 5 / DCGS-N INCREMENT 2 Ashore					
Models of Systems Affected: Shore			Modification Type: New Model					Related RDT&E PEs: 0305208N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: DCGS-N INCREMENT 2 Ashore													
B Kits													
Recurring													
1.1.1) Procurements - NonOrganic ⁽⁸⁾	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.800	2 / 2.600	3 / 3.906	2 / 3.254	- / -	9 / 13.560	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.800	- / 2.600	- / 3.906	- / 3.254	- / -	- / 13.560	
Subtotal: DCGS-N INCREMENT 2 Ashore	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.800	2 / 2.600	3 / 3.906	2 / 3.254	- / -	9 / 13.560	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 3.800	- / 2.600	- / 3.906	- / 3.254	- / -	- / 13.560	
Support (All Modification Items)													
2.1) Production Support	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.247	- / 0.169	- / 0.254	- / 0.211	- / -	- / 0.881	
Subtotal: Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.247	- / 0.169	- / 0.254	- / 0.211	- / -	- / 0.881	
Installation													
Modification Item 1 of 1: DCGS-N INCREMENT 2 Ashore	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.400	- / 1.400	- / 1.900	- / -	- / 5.700	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.400	- / 1.400	- / 1.900	- / -	- / 5.700	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	4.047	5.169	5.560	5.365	-	20.141	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10										P-1 Line Item Number / Title: 2914 / Distributed Common Ground System-Navy (DCGS-N)										Modification Number / Title: 5 / DCGS-N INCREMENT 2 Ashore											
Modification Item 1 of 1: DCGS-N INCREMENT 2 Ashore																															
Manufacturer Information																															
Manufacturer Name: TBD															Manufacturer Location: TBD																
Administrative Leadtime (in Months):															Production Leadtime (in Months):																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Procurements																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.000	- / -	- / -	- / -	2 / 1.000																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.400	- / -	- / -	- / -	2 / 1.400																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.400	1 / 0.700	- / -	3 / 2.100																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.200	- / -	2 / 1.200																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.400	2 / 1.400	3 / 1.900	- / -	9 / 5.700																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	1	-	-	1	1	1	-	2	-	-	9
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	1	-	-	1	1	1	-	2	-	-	9
Footnotes:																															
⁽⁸⁾ DCGS-N Inc 2 unit costs represent an average cost based on specific platform, network, infrastructure versions, and alignment with the Navy's Network Infrastructure (Common Computing Environment (CCE)). In addition, unit costs continue to be updated based on latest estimated costs.																															

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment						P-1 Line Item Number / Title: 2915 / CANES						
ID Code (A=Service Ready, B=Not Service Ready) : A				Program Elements for Code B Items:					Other Related Program Elements: 0303138N			
Line Item MDAP/MAIS Code: M417			Item MDAP/MAIS Code(s):									
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	386.798	325.340	335.989	278.991	-	278.991	279.272	361.129	338.817	340.636	4,602.200	7,249.172
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	386.798	325.340	335.989	278.991	-	278.991	279.272	361.129	338.817	340.636	4,602.200	7,249.172
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	386.798	325.340	335.989	278.991	-	278.991	279.272	361.129	338.817	340.636	4,602.200	7,249.172
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	7.778	7.393	10.061	-	10.061	7.863	7.189	9.749	6.600	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
Consolidated Afloat Networks & Enterprise Services (CANES) is the Navy's only Program of Record to replace existing afloat networks and provide the necessary infrastructure for applications, systems, and services to dominate the cyber warfare domain. CANES is the technical and infrastructure consolidation of existing, separately managed afloat networks including Integrated Shipboard Network Systems (ISNS), Combined Enterprise Regional Information Exchange System - Maritime, Sensitive Compartmented Information (SCI) Networks, and Submarine Local Area Network. These legacy afloat network designs are currently End of Life and CANES will replace these unaffordable and obsolete networks.												
The fundamental goal of CANES is to bring Infrastructure as a Service (IaaS) and Platform as a Service (PaaS), within which current and future iterations of Navy Tactical Network computing and storage capabilities will reside. CANES will provide complete infrastructure inclusive of hardware, software, processing, storage, and end user devices for Unclassified, Coalition, Secret and SCI for all basic network services (email, web, chat, collaboration) to a wide variety of Navy surface combatants, submarines, Maritime Operations Centers, Regional Network Operations and Security Centers (RNOSCs) and Aircraft. In addition, hosted applications and systems inclusive of Command and Control, Intelligence, Surveillance and Reconnaissance, Information Operations, Logistics and Business domains require the CANES infrastructure to operate in the tactical environment. Integrating these applications and systems is accomplished through Application Integration, the engineering process used to evaluate and validate compatibility between the CANES IaaS / PaaS and the Navy-validated applications, systems and services that will utilize the CANES infrastructure and services. Specific programs, such as Distributed Common Ground System - Navy, Global Command and Control System - Maritime, Naval Tactical Command Support System, and Undersea Warfare Decision Support System, are dependent on the CANES Common Computing Environment to field, host, and sustain their capability because they no longer provide their own hardware. To reduce risks associated with End of Life Legacy Systems awaiting CANES replacement in the out-years, LI 2915 will support required emergent modernization (Service Life Extension Program (SLEP)) to replace end of life components, protect against new Information Assurance vulnerabilities, increase Cyber Security, and to remain compliant with DoD Information Assurance mandates. CANES requires that Automated Digital Network System (ADNS) field prior to or concurrently with CANES due to architectural reliance between the two programs.												
CANES will develop technical updates on a rolling four year hardware baseline and a two year software baseline. Fielding of rolling baselines will occur every eight years for major hardware and four years for minor hardware and software. CANES is based on the overarching concept of reducing the number of afloat networks and providing enhanced efficiency through a single engineering focus on integrated technical solutions. This will allow for streamlined acquisition, contracting, and test events, and significant lifecycle efficiencies through consolidation of multiple current configuration management baselines, logistics, and training efforts into a unified support structure.												
Automated Digital Network System (ADNS): ADNS provides routing, switching, baseband, configuration and monitoring capabilities for interconnecting naval and coalition enclaves worldwide. ADNS utilizes Commercial Off-the-Shelf/ Government Off-the-Shelf (COTS/GOTS) equipment and network protocols as specified by the joint technical architecture. ADNS Increment I provides initial limited, ship to shore												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment		P-1 Line Item Number / Title: 2915 / CANES
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0303138N
Line Item MDAP/MAIS Code: M417	Item MDAP/MAIS Code(s):	
IP connectivity, separation of enclaves, reuse of unused enclave bandwidth, and ship to tactical shore IP connectivity. ADNS Increment II provides capabilities of network to Satellite Communications, Load Balancing, Radio Frequency (RF) restoral, and Quality of Service (QoS) to include application prioritization, Traffic Management, compression and enhancements designed to maximize use of "effective" available bandwidth for surface, shore, and airborne platforms. ADNS Increment III combines all Navy Tactical Voice, secure Communications Interoperability Protocol Inter-Working Function, Video, and data requirements into a converged IP data stream. This includes Secure Communication Interoperability-Protocol Interworking Function (SCIP-IWF) for secure telephony over IP. In addition, the Increment III architecture will incorporate an IPv4/IPv6 dual stack and a Cipher-Text security architecture to align to the Global Information Grid (GIG) in order to mesh Navy tactical surface, subsurface, and airborne platforms into a single IP environment with gateway functions to joint and coalition networks. Starting in FY16, ADNS transitions to LI 3050. Cost to Complete (CTC) values are exclusive to CANES.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment					P-1 Line Item Number / Title: 2915 / CANES		
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:		Other Related Program Elements: 0303138N		
Line Item MDAP/MAIS Code: M417		Item MDAP/MAIS Code(s):					

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / CANES	P-5, P-5a		- / 0.000	- / -	- / 0.400	- / -	- / -	- / -
1 / 5F010/5F777 CANES - Afloat Non-MIP ()	P-3a		- / 330.969	- / 268.543	- / 278.963	- / 276.332	- / -	- / 276.332
2 / 5F010/5F776 CANES - Ashore Non-MIP ()	P-3a		- / 4.691	- / 4.699	- / -	- / 2.659	- / -	- / 2.659
3 / 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC I & II ()	P-3a		- / 0.200	- / 0.400	- / 0.400	- / -	- / -	- / -
4 / 5F069/5F777 Automated Digital Network System (ADNS) - Afloat - INC III ()	P-3a		- / 46.075	- / 45.598	- / 46.726	- / -	- / -	- / -
5 / 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC III ()	P-3a		- / 4.863	- / 6.100	- / 9.500	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 386.798	- / 325.340	- / 335.989	- / 278.991	- / -	- / 278.991

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / CANES	P-5, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / 5F010/5F777 CANES - Afloat Non-MIP ()	P-3a		- / 268.684	- / 347.925	- / 328.746	- / 328.850	- / 4,528.967	- / 6,957.979
2 / 5F010/5F776 CANES - Ashore Non-MIP ()	P-3a		- / 10.588	- / 13.204	- / 10.071	- / 11.786	- / 73.233	- / 130.931
3 / 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC I & II ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 1,000
4 / 5F069/5F777 Automated Digital Network System (ADNS) - Afloat - INC III ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 138.399
5 / 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC III ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 20.463
Total Gross/Weapon System Cost			- / 279.272	- / 361.129	- / 338.817	- / 340.636	- / 4,602.200	- / 7,249.172

*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 add due to rounding.

Justification:
The FY 2016 funding request was reduced by \$10.0 million to account for the availability of prior year execution balances.

FY 2016 - CANES funds are for the procurement of (9) Afloat production units, (4) Afloat Technical Insertion units, (1) Afloat First Article, and (1) Ashore production unit, with integration, and associated costs for pre-installation design. In addition, the FY16 CANES investment will fund installation of (21) Afloat production units and (1) Ashore production unit.

The related RD TEN PE is CANES Integration PE 0303138N. It is important to note, procurement quantities across the FYDP are the same CANES end item product referenced in CANES LI 2925. Installation quantities represent sites receiving CANES as also referenced in LI 2925. The associated dollars in this exhibit represent the non-MIP portions of the CANES enclave.

FY14-15 ADNS funding resides in BLI 2915. FY16-20 ADNS funding transitions into BLI 3050.

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Exhibit P-5, Cost Analysis: PB 2016 Navy									Date: February 2015									
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2915 / CANES					Item Number / Title [DODIC]: 1 / CANES									
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity (<i>Units in Each</i>)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (<i>\$ in Millions</i>)		0.000	-	0.400	-	-	-	-	-	-	-	-	-					
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) (<i>\$ in Millions</i>)		0.000	-	0.400	-	-	-	-	-	-	-	-	-					
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (<i>\$ in Millions</i>)		0.000	-	0.400	-	-	-	-	-	-	-	-	-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)		-	-	-	-	-	-	-	-	-	-	-	-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway - European Reassurance Initiative Cost																		
Non Recurring Cost																		
1.1.1) European Reassurance Initiative. ^(t) ⁽¹⁾	-	-	0.000	-	-	-	80.000	5	0.400	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	0.000	-	-	-	-	-	0.400	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - European Reassurance Initiative Cost	-	-	0.000	-	-	-	-	-	0.400	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	0.000	-	-	-	-	-	0.400	-	-	-	-	-	-	-	-	-
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway - European Reassurance Initiative Cost																		
Non Recurring Cost																		
1.1.1) European Reassurance Initiative. ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10						P-1 Line Item Number / Title: 2915 / CANES						Item Number / Title [DODIC]: 1 / CANES					

ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Flyaway - European Reassurance Initiative Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Footnotes:

(1) The European Reassurance Initiative (ERI) is a congressional interest item to procure CENTRIXS (Combined ENTERprise Regional Information Exchange System) fly-away kits for coalition forces deployed in support of NAVEUR missions - including SAFE (Submarine Allied Forces Europe) - in Europe. These units will not be installed.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2915 / CANES				Item Number / Title [DODIC]: 1 / CANES				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) European Reassurance Initiative.		2015	SSC LANT / Charleston, SC	WR	** NO PCO **	Apr 2015	Sep 2015	5	80.000	Y		

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 1 / 5F010/5F777 CANES - Afloat Non-MIP

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	330.969	268.543	278.963	276.332	-	276.332	268.684	347.925	328.746	328.850	4,528.967	6,957.979
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	330.969	268.543	278.963	276.332	-	276.332	268.684	347.925	328.746	328.850	4,528.967	6,957.979
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	330.969	268.543	278.963	276.332	-	276.332	268.684	347.925	328.746	328.850	4,528.967	6,957.979
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The consolidation of existing Afloat Network programs of record designed to provide an agile, responsive Common Computing Environment (CCE) and afloat Core Services (ACS) within and upon which application developers will host Command and Control, Warfare, Intelligence, Logistics, and business and education applications and services. Migration of Non-Classified Enclave (NCE) capabilities into the CANES baseline.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2915 / CANES					Modification Number / Title: 1 / 5F010/5F777 CANES - Afloat Non-MIP				
Models of Systems Affected: Consolidated Afloat Networks & Enterpries Services (CANES) Non-MIP				Modification Type:					Related RDT&E PEs: 0303138N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 5F010/5F777 CANES - Afloat Non-MIP													
B Kits													
Recurring													
1.1.1) CANES - Afloat 5F010/5F777 (Non-MIP) - NonOrganic ⁽²⁾	30 / 168.248	16 / 110.889	23 / 147.055	9 / 61.295	- / -	9 / 61.295	22 / 126.297	18 / 101.759	10 / 69.331	19 / 104.405	21 / 123.146	168 / 1,012.425	
1.1.2) CANES - Afloat Technical Insertion (Non-MIP) - NonOrganic	- / -	- / -	- / -	4 / 22.311	- / -	4 / 22.311	14 / 47.953	25 / 89.286	25 / 99.599	19 / 84.686	471 / 2,619.514	558 / 2,963.349	
1.1.3) CANES - Service Life Extension Program (SLEP) (Non-MIP) - NonOrganic ⁽³⁾	7 / 3.834	- / -	1 / 2.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 6.584	
Subtotal: Recurring	- / 172.082	- / 110.889	- / 149.805	- / 83.606	- / -	- / 83.606	- / 174.250	- / 191.045	- / 168.930	- / 189.091	- / 2,742.660	- / 3,982.358	
Non-Recurring													
1.2.1) CANES - Afloat First Articles (Non-MIP) - Organic ⁽⁴⁾	7 / 39.983	1 / 7.251	1 / 7.657	1 / 8.247	- / -	1 / 8.247	- / -	1 / 7.563	1 / 7.499	- / -	1 / 7.247	13 / 85.447	
1.2.2) CANES - Non-Recurring Engineering (Non-MIP) - Organic ⁽⁵⁾	- / 26.907	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.907	
Subtotal: Non-Recurring	- / 66.890	- / 7.251	- / 7.657	- / 8.247	- / -	- / 8.247	- / -	- / 7.563	- / 7.499	- / -	- / 7.247	- / 112.354	
Subtotal: 5F010/5F777 CANES - Afloat Non-MIP	44 / 238.972	17 / 118.140	25 / 157.462	14 / 91.853	- / -	14 / 91.853	36 / 174.250	44 / 198.608	36 / 176.429	38 / 189.091	493 / 2,749.907	747 / 4,094.712	
Subtotal: Procurement, All Modification Items	- / 238.972	- / 118.140	- / 157.462	- / 91.853	- / -	- / 91.853	- / 174.250	- / 198.608	- / 176.429	- / 189.091	- / 2,749.907	- / 4,094.712	
Support (All Modification Items)													
2.1) CANES - Afloat Production Support (Non-MIP)	- / 8.565	- / 5.836	- / 7.740	- / 4.400	- / -	- / 4.400	- / 9.171	- / 10.055	- / 8.891	- / 9.952	- / 144.352	- / 208.962	
2.2) CANES - Afloat Design Service Agent (Non-MIP)	- / 12.722	- / 7.794	- / 11.011	- / 15.904	- / -	- / 15.904	- / 7.144	- / 9.620	- / 7.356	- / 8.351	- / 10.587	- / 90.489	
Subtotal: Support	- / 21.287	- / 13.630	- / 18.751	- / 20.304	- / -	- / 20.304	- / 16.315	- / 19.675	- / 16.247	- / 18.303	- / 154.939	- / 299.451	
Installation													
Modification Item 1 of 1: 5F010/5F777 CANES - Afloat Non-MIP	- / 70.710	- / 136.773	- / 102.750	- / 164.175	- / -	- / 164.175	- / 78.119	- / 129.642	- / 136.070	- / 121.456	- / 1,624.121	- / 2,563.816	
Subtotal: Installation	- / 70.710	- / 136.773	- / 102.750	- / 164.175	- / -	- / 164.175	- / 78.119	- / 129.642	- / 136.070	- / 121.456	- / 1,624.121	- / 2,563.816	
Total													
Total Cost (Procurement + Support + Installation)	330.969	268.543	278.963	276.332	-	276.332	268.684	347.925	328.746	328.850	4,528.967	6,957.979	

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2915 / CANES				Modification Number / Title: 1 / 5F010/5F777 CANES - Afloat Non-MIP					
Modification Item 1 of 1: 5F010/5F777 CANES - Afloat Non-MIP													
Manufacturer Information													
Manufacturer Name: Northrop Grumman Systems Corp. ⁽⁶⁾								Manufacturer Location: Herndon, VA					
Administrative Leadtime (in Months): 4								Production Leadtime (in Months): 6					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates	Feb 2014												
Delivery Dates	Aug 2014												
Manufacturer Name: Multiple Vendors ⁽⁷⁾								Manufacturer Location: Various					
Administrative Leadtime (in Months): 1								Production Leadtime (in Months): 6					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates	Jan 2015	Apr 2015	Nov 2015										
Delivery Dates	Jul 2015	Oct 2015	May 2016										
Manufacturer Name: SLEP - SSC Atlantic/Pacific ⁽⁸⁾								Manufacturer Location: SPAWAR					
Administrative Leadtime (in Months): 1								Production Leadtime (in Months): 2					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020						
Contract Dates		Nov 2014											
Delivery Dates		Jan 2015											
Installation Information													
Method of Implementation: [none specified]:: Installation Name: CANES - Afloat 5F010/5F777 (Non-MIP)													
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Prior Years	14 / 67.680	15 / 107.185	1 / 13.433	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 188.298	
FY 2014	- / -	5 / 26.906	10 / 65.433	1 / 4.587	- / -	1 / 4.587	- / -	- / -	- / -	- / -	- / -	16 / 96.926	
FY 2015	- / -	- / -	5 / 22.384	18 / 142.477	- / -	18 / 142.477	- / -	- / -	- / -	- / -	- / -	23 / 164.861	
FY 2016	- / -	- / -	- / -	2 / 17.111	- / -	2 / 17.111	7 / 35.373	- / -	- / -	- / -	- / -	9 / 52.484	
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	5 / 33.606	17 / 94.600	- / -	- / -	- / -	22 / 128.206	
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 19.132	14 / 96.935	- / -	- / -	18 / 116.067	
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.005	9 / 44.898	- / -	10 / 48.903	
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 31.506	13 / 81.312	19 / 112.818	
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 131.349	21 / 131.349	
Total	14 / 67.680	20 / 134.091	16 / 101.250	21 / 164.175	- / -	21 / 164.175	12 / 68.979	21 / 113.732	15 / 100.940	15 / 76.404	34 / 212.661	168 / 1,039.912	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 1 / 5F010/5F777 CANES - Afloat Non-MIP

Modification Item 1 of 1: 5F010/5F777 CANES - Afloat Non-MIP

Installation Information

Method of Implementation: [none specified]:: Installation Name: CANES - Afloat 5F010/5F777 (Non-MIP)

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	14	-	2	4	8	2	4	4	6	6	6	5	8	2	4	3	4	1	9	6	2	4	6	5	3	1	3	2	3	41	168
Out	7	1	1	7	2	5	5	3	5	6	6	6	3	5	9	3	3	3	4	5	9	2	4	5	1	5	4	3	1	45	168

Method of Implementation: [none specified]:: Installation Name: CANES - Afloat Technical Insertion (Non-MIP)

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.320	- / -	- / -	- / -	- / -	4 / 4.320
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	3 / 4.820	11 / 14.234	- / -	- / -	- / -	14 / 19.054
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.676	23 / 26.410	- / -	- / -	25 / 28.086
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 8.720	22 / 41.078	- / -	25 / 49.798
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.974	17 / 49.170	19 / 53.144
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	471 / 1,362.290	471 / 1,362.290
Total	- / -	- / -	- / -	- / -	- / -	- / -	7 / 9.140	13 / 15.910	26 / 35.130	24 / 45.052	488 / 1,411.460	558 / 1,516.692

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	4	4	1	6	1	11	5	5	5	10	8	5	490	558	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	4	3	2	5	2	11	4	5	7	6	12	494	558	

Method of Implementation: [none specified]:: Installation Name: CANES - Service Life Extension Program (SLEP) (Non-MIP)

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	5 / 3.030	2 / 2.682	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 5.712

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 1 / 5F010/5F777 CANES - Afloat Non-MIP

Modification Item 1 of 1: 5F010/5F777 CANES - Afloat Non-MIP

Installation Information

Method of Implementation: [none specified]:: Installation Name: CANES - Service Life Extension Program (SLEP) (Non-MIP)

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	1 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.500
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	5 / 3.030	2 / 2.682	1 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 7.212

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	3	2	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	-	4	-	1	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8

Method of Implementation (Organic): Not Installed - CANES - Afloat First Articles (Non-MIP)

Installation Quantity: 13

Footnotes:

⁽²⁾ CANES Afloat production units require an additional 4 months after delivery for operational integration, assembly and testing prior to installation start. Installations do not begin until 10 months after contract award (6 months production lead time + 4 months integration). Total lead time, including admin lead time, is 11 months. - First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability. - Average unit cost fluctuations are attributable to variances in system configuration requirements among platforms. A DDG/CG/LSD (unit level platform) has fewer users and runs fewer applications than a LHD/CVN (force level platform). Force level platforms are larger in scale compared to the unit level ships and represent a super set of users, applications and connected systems. - Installation cost fluctuations are attributed to and dependent on class, level of the platform, variant of predecessor system the hull currently has installed (ISNS Alpha/Charlie/Delta/Legacy), geographic location of the installation, and length of the availability. As an example of variant differences, if a CVN has an ISNS Delta variant installed, a CANES installation is estimated to be \$11.2M. If that same CVN had a legacy ATM LAN the CANES installation is estimated to be \$16.4M. The legacy LAN installation has the additional cost of rewiring all the computer drops, while the newer variants of ISNS allow for reuse of drops during the CANES installation. The increase in installation unit cost in FY16 compared to FY15 is due to a larger number of Force Level installations in FY16.

⁽³⁾ Service Life Extension Program (SLEP) provides updated hardware and software components to platforms with legacy networks that must remain in service longer than planned due to CANES installation deferrals. SLEP procurements and installations vary greatly in scope depending on the equipment required and have wide variations in unit cost.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 1 / 5F010/5F777 CANES - Afloat Non-MIP

(4) CANES first articles are defined as necessary production design drawings, environmental (shock and vibration) qualifications, logistics and training artifacts as well as a certified tested baseline provided to the government for each platform first of its kind. First articles are separate from production units and must be bought prior to the procurement of the corresponding production units. Procurement Lead Time (PLT) is 8 months for First Articles (DDG,CVN, submarines, etc). All following production articles of the same variant require a PLT of 6 months. CANES First Articles are not installed. Average unit cost fluctuations are attributable to variances in system configuration requirements among platforms. A DDG/CG/LSD (unit level platforms) has fewer users and runs fewer applications than a LHD/CVN (force level platforms). Force level platforms are larger in scale compared to the unit level ships and represent a super set of users, applications and connected systems. The FY14, FY15, and FY16 procurements are unit level systems.

(5) The NRE cost element reflects production engineering costs related to delivery of the first production units. These costs include CVN and DDG design hardware baseline updates required as a result of deficiencies found during the manufacturing process and updates to related production documentation, both of which are required prior to final acceptance by the government.

(6) CANES: FY2014 Limited Deployment

(7) CANES: Full Production Contract has 7 possible vendors on MAC award: Northrop Grumman Systems Corp, BAE Sytems Technology Solutions & Services, General Dynamics C4 Systems, Global Technical Systems, SERCO, Inc, CGI Federal Inc, DRS Laurel Technologies

(8) SLEP: Lead time is less due to smaller scope replacement of select existing minor equipment.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 2 / 5F010/5F776 CANES - Ashore Non-MIP

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	4.691	4.699	-	2.659	-	2.659	10.588	13.204	10.071	11.786	73.233	130.931
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	4.691	4.699	-	2.659	-	2.659	10.588	13.204	10.071	11.786	73.233	130.931
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	4.691	4.699	-	2.659	-	2.659	10.588	13.204	10.071	11.786	73.233	130.931
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The consolidation of existing Ashore Network programs of record designed to provide an agile, responsive Common Computing Environment (CCE) and the eventual addition of Afloat Core Services (ACS) within and upon which application developers will host Command and Control, Warfare, Intelligence, Logistics, and business and education applications and services for Maritime Operation Command (MOC), Regional Network Operations and Security Centers (RNOSC) and Technical Training Equipment (TTE).

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2915 / CANES				Modification Number / Title: 2 / 5F010/5F776 CANES - Ashore Non-MIP				
Models of Systems Affected: Consolidated Afloat Networks & Enterprise Services (CANES) Non-MIP				Modification Type:				Related RDT&E PEs: 0303138N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: 5F010/5F776 CANES - Ashore Non-MIP												
B Kits												
Recurring												
1.1.1) CANES - Ashore 5F010/5F776 (Non-MIP) - NonOrganic ⁽⁹⁾	- / -	2 / 2.460	- / -	1 / 1.392	- / -	1 / 1.392	- / -	1 / 5.566	1 / 5.821	1 / 5.700	3 / 14.596	9 / 35.535
1.1.2) CANES - Ashore - Technical Insertion (Non-MIP) - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.460	- / -	1 / 1.266	31 / 28.818	34 / 32.544
Subtotal: Recurring	- / 0.000	- / 2.460	- / -	- / 1.392	- / -	- / 1.392	- / -	- / 8.026	- / 5.821	- / 6.966	- / 43.414	- / 68.079
Non-Recurring												
1.2.1) CANES - Ashore First Articles (Non-MIP) - Organic ⁽¹⁰⁾	1 / 4.691	- / -	- / -	- / -	- / -	- / -	1 / 10.400	- / -	- / -	- / -	- / -	2 / 15.091
Subtotal: Non-Recurring	- / 4.691	- / -	- / -	- / -	- / -	- / -	- / 10.400	- / -	- / -	- / -	- / -	- / 15.091
Subtotal: 5F010/5F776 CANES - Ashore Non-MIP	1 / 4.691	2 / 2.460	- / -	1 / 1.392	- / -	1 / 1.392	1 / 10.400	3 / 8.026	1 / 5.821	2 / 6.966	34 / 43.414	45 / 83.170
Subtotal: Procurement, All Modification Items	- / 4.691	- / 2.460	- / -	- / 1.392	- / -	- / 1.392	- / 10.400	- / 8.026	- / 5.821	- / 6.966	- / 43.414	- / 83.170
Support (All Modification Items)												
2.1) CANES - Ashore Production Support (Non-MIP)	- / -	- / 0.129	- / -	- / 0.073	- / -	- / 0.073	- / -	- / 0.422	- / 0.306	- / 0.367	- / 2.285	- / 3.582
2.2) CANES - Ashore Design Services Agent (Non-MIP)	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.188	- / 0.267	- / 0.271	- / 0.275	- / 0.628	- / 1.629
Subtotal: Support	- / 0.000	- / 0.129	- / -	- / 0.073	- / -	- / 0.073	- / 0.188	- / 0.689	- / 0.577	- / 0.642	- / 2.913	- / 5.211
Installation												
Modification Item 1 of 1: 5F010/5F776 CANES - Ashore Non-MIP	- / 0.000	- / 2.110	- / -	- / 1.194	- / -	- / 1.194	- / -	- / 4.489	- / 3.673	- / 4.178	- / 26.906	- / 42.550
Subtotal: Installation	- / 0.000	- / 2.110	- / -	- / 1.194	- / -	- / 1.194	- / -	- / 4.489	- / 3.673	- / 4.178	- / 26.906	- / 42.550
Total												
Total Cost (Procurement + Support + Installation)	4.691	4.699	-	2.659	-	2.659	10.588	13.204	10.071	11.786	73.233	130.931

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10										P-1 Line Item Number / Title: 2915 / CANES										Modification Number / Title: 2 / 5F010/5F776 CANES - Ashore Non-MIP											
Modification Item 1 of 1: 5F010/5F776 CANES - Ashore Non-MIP																															
Manufacturer Information																															
Manufacturer Name: SSC Atlantic/Pacific														Manufacturer Location: SPAWAR																	
Administrative Leadtime (in Months): 4														Production Leadtime (in Months): 6																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Feb 2014																													
Delivery Dates		Aug 2014																													
Manufacturer Name: TBD (Competitive Procurement) ⁽¹¹⁾														Manufacturer Location: TBD (Competitive Procurement)																	
Administrative Leadtime (in Months): 1														Production Leadtime (in Months): 5																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates										Nov 2015																					
Delivery Dates										Apr 2016																					
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: CANES - Ashore 5F010/5F776 (Non-MIP)																															
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2014		- / -		2 / 2.110		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		2 / 2.110					
FY 2015		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2016		- / -		- / -		- / -		1 / 1.194		- / -		1 / 1.194		- / -		- / -		- / -		- / -		- / -		- / -		1 / 1.194					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		1 / 3.629		- / -		- / -		- / -		- / -		1 / 3.629					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		1 / 3.673		- / -		- / -		- / -		1 / 3.673					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		1 / 3.736		- / -		- / -		1 / 3.736					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 11.448		3 / 11.448					
Total		- / -		2 / 2.110		- / -		1 / 1.194		- / -		1 / 1.194		- / -		1 / 3.629		1 / 3.673		1 / 3.736		3 / 11.448		9 / 25.790							
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	3	9
Out	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	4	9

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 2 / 5F010/5F776 CANES - Ashore Non-MIP

Modification Item 1 of 1: 5F010/5F776 CANES - Ashore Non-MIP

Installation Information

Method of Implementation: [none specified]:: Installation Name: CANES - Ashore - Technical Insertion (Non-MIP)

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.860	- / -	- / -	- / -	2 / 0.860
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.442	- / -	1 / 0.442
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 15.458	31 / 15.458
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.860	- / -	1 / 0.442	31 / 15.458	34 / 16.760

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	31	34	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	32	34	

Method of Implementation (Organic): Not Installed - CANES - Ashore First Articles (Non-MIP)

Installation Quantity: 2

Footnotes:

⁽⁹⁾ Ashore procurement quantities are detailed as follows: Technical Training Equipment (TTE) - FY14 (2), FY15 (0), FY16 (1), FY17 (0), FY18 (0), FY19 (0), FY20 (0); Maritime Operation Command (MOC) - FY14 (0), FY15 (0), FY16 (0), FY17 (0), FY18 (1), FY19(1), FY20 (1). -A MOC is a fully operational system configuration. A TTE configuration is a subset of a MOC configuration. This scale difference accounts for the fluctuation in per unit costs across fiscal years commensurate with the procurement quantities outlined in above note. -TTE has no associated DSA requirements.

⁽¹⁰⁾ Production Lead Time is 8 months for First Articles. First Articles are defined as necessary production design drawings, environmental (shock and vibration) qualifications, logistics and training artifacts as well as a certified tested baseline provided to the government for each platform first of its kind. All following articles of the same variant require a Production Lead Time of 5 months for Ashore units and 6 months for afloat units. Total Ashore lead time, including 1 month Admin lead time, is 6 months. Ashore production lead times require one month less than Afloat production lead times due to the long lead time afloat production quality racks and minimized shock and vibration requirements for shore facilities. CANES First Articles are not installed. First Article average unit cost fluctuations are attributable to variances in system configuration requirements among shore sites. A shore training unit (TTE) has fewer users and runs fewer applications than a shore Maritime Operations Center (MOC). MOCs are larger in scale compared to the shore training sites and represent a super set of users, applications and connected systems. The prior year Ashore First Article procurement is one training unit; FY17 is a MOC First Article procurement.

⁽¹¹⁾ FY 2016 Contractor and location will be competed.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 3 / 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC I & II

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.200	0.400	0.400	-	-	-	-	-	-	-	-	1.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.200	0.400	0.400	-	-	-	-	-	-	-	-	1.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.200	0.400	0.400	-	-	-	-	-	-	-	-	1.000
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

ADNS is the gateway to the tactical Wide Area Network (WAN) afloat for Internet Protocol (IP) network operations, supporting information dissemination and external connectivity. ADNS allows services and applications to interconnect to the Defense Information Systems Network (DISN) ashore via multiple Radio Frequency (RF) resources and pier connectivity.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2915 / CANES						Modification Number / Title: 3 / 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC I & II			
Models of Systems Affected: Automated Digital Network System (ADNS) Ashore / Network Operations Center (NOC). Ashore Increments				Modification Type:						Related RDT&E PEs: 0303138N			
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC I & II													
B Kits													
Recurring													
1.1.1) ADNS INC II - NonOrganic ⁽¹²⁾	4 / 0.200	4 / 0.200	4 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.600	
Subtotal: Recurring	- / 0.200	- / 0.200	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	
Subtotal: 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC I & II	4 / 0.200	4 / 0.200	4 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.600	
Subtotal: Procurement, All Modification Items	- / 0.200	- / 0.200	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600	
Installation													
Modification Item 1 of 1: 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC I & II	- / 0.000	- / 0.200	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	
Subtotal: Installation	- / 0.000	- / 0.200	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.400	
Total													
Total Cost (Procurement + Support + Installation)	0.200	0.400	0.400	-	-	-	-	-	-	-	-	1.000	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 3 / 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC I & II

Modification Item 1 of 1: 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC I & II

Manufacturer Information

Manufacturer Name: SAIC				Manufacturer Location: San Diego, CA			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 4			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Nov 2013	Nov 2014					
Delivery Dates	Mar 2014	Mar 2015					

Installation Information

Method of Implementation: [none specified]:: Installation Name: ADNS INC II

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	4 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.200
FY 2015	- / -	- / -	4 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.200
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	4 / 0.200	4 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.400

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	3	1	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	-	-	-	3	1	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8

Footnotes:

(12) -Legacy increments will remain in the fleet throughout the FYDP until CANES and ADNS III are installed. Tech refresh is required to field hardware to address End of Life issues at (4) ADNS Network Operation Centers (NOC): NCTS Bahrain, NCTAMS EURCENT, NCTAMS LANT, and NCTAMS PAC sites.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 4 / 5F069/5F777 Automated Digital Network System (ADNS) - Afloat - INC III

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	46.075	45.598	46.726	-	-	-	-	-	-	-	-	138.399
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	46.075	45.598	46.726	-	-	-	-	-	-	-	-	138.399
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	46.075	45.598	46.726	-	-	-	-	-	-	-	-	138.399
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

ADNS is the gateway to the tactical Wide Area Network (WAN) afloat for Internet Protocol (IP) network operations, supporting information dissemination and external connectivity. ADNS provides the only Quality and Class of Service (QoS/CoS) routing for Multi-Service Voice, Video, and Data domains across available Radio Frequency (RF) paths.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2915 / CANES				Modification Number / Title: 4 / 5F069/5F777 Automated Digital Network System (ADNS) - Afloat - INC III					
Models of Systems Affected: Automated Digital Network System (ADNS) Afloat Increment III.				Modification Type:				Related RDT&E PEs: 0303138N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 5F069/5F777 Automated Digital Network System (ADNS) - Afloat - INC III													
B Kits													
Recurring													
1.1.1) ADNS INC III - NonOrganic ⁽¹³⁾	44 / 31.761	21 / 34.034	33 / 32.301	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	98 / 98.096	
Subtotal: Recurring	- / 31.761	- / 34.034	- / 32.301	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 98.096	
Subtotal: 5F069/5F777 Automated Digital Network System (ADNS) - Afloat - INC III	44 / 31.761	21 / 34.034	33 / 32.301	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	98 / 98.096	
Subtotal: Procurement, All Modification Items	- / 31.761	- / 34.034	- / 32.301	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 98.096	
Support (All Modification Items)													
2.1) ADNS - PRODUCTION SUPPORT ⁽¹⁴⁾	- / 1.862	- / 1.818	- / 1.687	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.367	
2.2) ADNS - DSA ⁽¹⁵⁾	- / 2.402	- / 2.199	- / 2.746	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.347	
Subtotal: Support	- / 4.264	- / 4.017	- / 4.433	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.714	
Installation													
Modification Item 1 of 1: 5F069/5F777 Automated Digital Network System (ADNS) - Afloat - INC III	- / 10.050	- / 7.547	- / 9.992	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.589	
Subtotal: Installation	- / 10.050	- / 7.547	- / 9.992	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.589	
Total													
Total Cost (Procurement + Support + Installation)	46.075	45.598	46.726	-	-	-	-	-	-	-	-	138.399	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 4 / 5F069/5F777 Automated Digital Network System (ADNS) - Afloat - INC III

Modification Item 1 of 1: 5F069/5F777 Automated Digital Network System (ADNS) - Afloat - INC III

Manufacturer Information

Manufacturer Name: SERCO, INC.	Manufacturer Location: San Diego, CA
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 7

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Nov 2013	Nov 2014					
Delivery Dates	Jun 2014	Jun 2015					

Installation Information

Method of Implementation: [none specified]:: Installation Name: ADNS INC III

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	26 / 10.050	18 / 6.801	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 16.851
FY 2014	- / -	2 / 0.746	19 / 7.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 7.996
FY 2015	- / -	- / -	9 / 2.742	24 / -	- / -	24 / -	- / -	- / -	- / -	- / -	- / -	33 / 2.742
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	26 / 10.050	20 / 7.547	28 / 9.992	24 / -	- / -	24 / -	- / -	- / -	- / -	- / -	- / -	98 / 27.589

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	21	5	7	4	4	5	3	9	6	9	13	5	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98
Out	15	6	11	3	4	4	5	6	7	10	12	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98

Footnotes:

(13) Average unit costs fluctuate for procurement and installation due to various system configurations required for surface and submarine platforms. An INC III Backfit is a hardware kit used to upgrade an existing INC III system. Backfit procurement and installation costs are lower than the full scale INC III system. ADNS INC III Afloat procurement cost range: \$.5M - \$1.5M; INC III Backfit procurement cost range: \$.15M - \$.25M; installation cost range: \$.4M - \$1.0M. INC III units require an additional 4 months after delivery for required integration, assembly and testing prior to installation start. Installs do not begin until 11 months after contract award (7 months production lead time + 4 months integration). First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 4 / 5F069/5F777 Automated Digital Network System (ADNS) - Afloat - INC III
fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability. Prior to FY13 funding resides in PE 0204163N. FY13-15 funding resides in PE 0303138N. FY16-20 funding was realigned back into PE 0204163N for Major Automated Information System (MAIS) transparency compliance. (14) Prior to FY13 funding resides in PE 0204163N. FY13-15 funding resides in PE 0303138N. FY16-20 funding was realigned back into PE 0204163N for Major Automated Information System (MAIS) transparency compliance. (15) Prior to FY13 funding resides in PE 0204163N. FY13-15 funding resides in PE 0303138N. FY16-20 funding was realigned back into PE 0204163N for Major Automated Information System (MAIS) transparency compliance.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 5 / 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC III

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.863	6.100	9.500	-	-	-	-	-	-	-	-	20.463
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	4.863	6.100	9.500	-	-	-	-	-	-	-	-	20.463
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.863	6.100	9.500	-	-	-	-	-	-	-	-	20.463
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

ADNS is the gateway to the tactical Wide Area Network (WAN) afloat for Internet Protocol (IP) network operations, supporting information dissemination and external connectivity. ADNS allows services and applications to interconnect to the Defense Information Systems Network (DISN) ashore via multiple Radio Frequency (RF) resources and pier connectivity.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2915 / CANES				Modification Number / Title: 5 / 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC III					
Models of Systems Affected: Automated Digital Network System (ADNS) Ashore / Network Operations Center (NOC). Ashore Increment I				Modification Type:				Related RDT&E PEs: 0303138N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC III													
B Kits													
Recurring													
1.1.1) ADNS INC III - NonOrganic ⁽¹⁶⁾	5 / 3.401	2 / 5.000	6 / 6.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 15.001	
Subtotal: Recurring	- / 3.401	- / 5.000	- / 6.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.001	
Subtotal: 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC III	5 / 3.401	2 / 5.000	6 / 6.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 15.001	
Subtotal: Procurement, All Modification Items	- / 3.401	- / 5.000	- / 6.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.001	
Support (All Modification Items)													
2.1) PRODUCTION SUPPORT	- / 0.862	- / 0.100	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.062	
Subtotal: Support	- / 0.862	- / 0.100	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.062	
Installation													
Modification Item 1 of 1: 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC III	- / 0.600	- / 1.000	- / 2.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.400	
Subtotal: Installation	- / 0.600	- / 1.000	- / 2.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.400	
Total													
Total Cost (Procurement + Support + Installation)	4.863	6.100	9.500	-	-	-	-	-	-	-	-	20.463	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 5 / 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC III

Modification Item 1 of 1: 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC III

Manufacturer Information

Manufacturer Name: SERCO, INC.	Manufacturer Location: San Diego, CA
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 7

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Nov 2013	Nov 2014					
Delivery Dates	Jun 2014	Jun 2015					

Manufacturer Name: SSC PAC-- San Diego, CA	Manufacturer Location: San Diego, CA
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 7

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Nov 2013	Nov 2014					
Delivery Dates	Jun 2014	Jun 2015					

Installation Information

Method of Implementation: [none specified]:: Installation Name: ADNS INC III

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.600	4 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.600
FY 2014	- / -	- / -	2 / 2.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.800
FY 2015	- / -	- / -	- / -	6 / -	- / -	6 / -	- / -	- / -	- / -	- / -	- / -	6 / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.600	4 / 1.000	2 / 2.800	6 / -	- / -	6 / -	- / -	- / -	- / -	- / -	- / -	13 / 4.400

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2915 / CANES	Modification Number / Title: 5 / 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC III

Modification Item 1 of 1: 5F069/5F776 Automated Digital Network System (ADNS) - Ashore - INC III

Installation Information

Method of Implementation: [none specified]:: Installation Name: ADNS INC III

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	4	-	-	-	1	1	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Out	1	-	-	4	-	-	1	1	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13

Footnotes:

(16) -FY15 procurement quantities represent full scale INC III systems (unit cost approx. \$2,500K each) at 2 NOC sites (NCTAMS EURCENT, NCTAMS Bahrain) and minor tech refreshes at 4 sites, therefore, have lower procurement and installation costs. -INC III ashore units require an additional 4 months after delivery for required integration, assembly, testing and shipping that must occur prior to installation start. Installs do not begin until 11 months after procurement contract award (7 months production lead time + 4 months integration).

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment	P-1 Line Item Number / Title: 2920 / RADIAC

ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items: 0708017N					Other Related Program Elements: 0702856N, 0603542N				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	39.757	9.835	5.153	8.294	-	8.294	8.129	8.136	7.966	8.135	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	39.757	9.835	5.153	8.294	-	8.294	8.129	8.136	7.966	8.135	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	39.757	9.835	5.153	8.294	-	8.294	8.129	8.136	7.966	8.135	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The FY 2016 funding request was reduced by \$0.900 million to account for the availability of prior year execution balances.

The Radiation Detection, Indication and Computation (RADIAC) Program is responsible for providing radiation monitoring instruments that detect and measure ionizing radiation. These instruments are used on all Navy, Coast Guard and Military Sealift Command vessels, and at every Navy shore installation, in order to ensure the safety of personnel, continuity of operations in radiological or nuclear contingencies, and protection of the environment.

[P40A / M2100 - Survey Meters]: M2100. Radiation survey meters, required by 10CFR20 and the Navy's mission, are used to detect, measure and monitor radiation levels in support of operations involving radioactive materials. Navy operations associated with radioactive materials include operation of nuclear reactors, maintenance on radioactive systems or components, testing of components for structural integrity (X-ray), research, and medical diagnostics and treatment. Additionally, radiation survey meters are used to search for, locate and intercept radioactive material, and in responding to casualties involving radioactive materials. Where radiation survey meters are used to support operations involving radioactive material, they provide real-time information used to control personnel radiation exposure and to identify and control the spread of radioactivity. When used to search for radioactive material, they provide an extremely reliable method of identifying radioactive material while minimizing the risk to personnel conducting these operations.

[P40A / Ion Chamber Survey Meter]: M2100, Ion Chamber Survey Meter: Portable radiation survey meter used to ensure compliance with 10CFR20 during operations involving radioactive material. This survey meter uses an ion chamber detector to ensure adequate response to both X-ray and gamma ray radiation.

[P40A / u-Rem Survey Meter]: M2100, u-Rem Survey Meter: Sensitive portable radiation survey meter used to ensure compliance with 10CFR20 during operations involving radioactive material. The "u" stands for "micro" in scientific notation, and indicates that this meter records radiation at much lower levels than other survey meters. This is required in applications that require micro level measurements.

[P40A / M2100 NWCF Contract Service Fee]: M2100 NWCF Contract Service Fee: The PCO for hardware acquisitions is a Navy Working Capital Fund activity that charges a set fee for each contract award and modification. The applicable fee for a given year is applied to the total value of the Cost Code hardware acquisitions.

[P40A / M2200 - Dosimetry]: M2200. Dosimetry consists of radiation sensitive materials that are used for detecting and measuring an individual's exposure to ionizing radiation and to aid in minimizing this exposure. Dosimetry is required to be worn by personnel who work with sources of radioactivity or by personnel responding to casualties involving radioactivity. Most dosimeters are small devices that are worn on the belt, on a lanyard around the neck or attached to a shirt. Some dosimeters provide direct readout enabling the wearer to monitor and control radiation exposure. Other types of dosimeters must be

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment		P-1 Line Item Number / Title: 2920 / RADIAC
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items: 0708017N	Other Related Program Elements: 0702856N, 0603542N
removed from the wearer to be evaluated in special dosimeter readers that extract the recorded radiation exposure value from the dosimeter. Radiation exposure measured by dosimetry is recorded in individual medical records when formal tracking of the radiation exposure is required.		
In accordance with 10CFR20, dosimetry is required to be worn by personnel who work with sources of radioactivity. In the Navy this includes personnel in the Nuclear Propulsion, Nuclear Weapons, and Medical and Radiological Affairs Support programs. In these programs radiation exposure is measured by dosimetry and recorded in individual medical records for tracking purposes. Dosimetry is also worn by personnel responding to casualties involving radioactivity to control their exposure within acceptable levels.		
[P40A / DT-702 Card]: M2200, DT-702 Card: The DT-702 Thermoluminescent Dosimeter (TLD) is a small metal card, a little smaller and thinner than a domino, that contains four circular slots containing different elements that are sensitive to various types of radioactivity. The card is placed in a plastic holder so it is protected and able to be worn by personnel on a lanyard or on their clothing. It is issued to sailors and civilians who are occupationally exposed to radiation. This includes Navy programs such as Nuclear Propulsion, Explosive Ordnance Disposal, Nuclear Weapons, Industrial Radiography and Medical. The DT-702 provides primary dosimetry, whereby dosage accumulated on this card can be entered into the respective person's permanent medical files. The processes associated with the DT-702 also are compliant with 10CFR20 by being approved by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards & Technology (NIST). The cards are issued to individuals and tracked by serial numbers. The cards are periodically turned in (and another card is issued so there is no coverage gap) to have the dose extracted by an 8800 Reader. The process by which the cards are read include several heating cycles that eventually make the receptor elements unusable, so the life of a TLD is finite -- about 100 reads -- and then they have to be replaced.		
[P40A / DT-702 Card Holder]: M2200, DT-702 Card Holder: The DT-702 Holder is used to hold and protect the DT-702 card during use. It consists of a hard plastic case with both belt and lanyard attachments. These attachments allow the DT-702 Holder (with DT-702 Card inserted) to be easily attached to the wearer during use. The holder contains four filters corresponding to the four elements of the DT-702 Card. Positions 1, 2, 3, and 4 have copper, plastic, mylar, and tin filters, respectively. All positions have different density thickness to help discriminate different types of radiation and energies to provide an accurate dose of record when processed through the 8800 Reader.		
[P40A / DXTRAD Finger Ring]: M2200, DXTRAD Finger Ring: Special dosimeter used to monitor radiation exposure to hands of workers. The DXTRAD Finger Ring uses the same radiation sensitive material of the DT-702/PD Card, putting the material in a ring that can be worn on the workers hand, to allow specific monitoring of radiation exposure to workers' hands.		
[P40A / Battlefield Dosimeter]: M2200, Battlefield Dosimeter: A dosimeter designed for use during nuclear events involving high energy gamma and neutron irradiation. These dosimeters are worn by personnel who might be exposed to effects of a nuclear explosion or the associated fallout.		
The original concept was to replace the IM-270/PD with something similar, i.e., an inexpensive (\$22 each) wrist watch device with a digital display that records radioactive dose starting at the high level of 10 rem (Roentgen Equivalent in Man). The concept of operations for such a dosimeter is that it is issued at MOP III to every sailor in order for recovery teams to perform triage on casualties after a nuclear detonation. A rem is a large dose of radiation, so the millirem (mrem), which is one thousandth of a rem, is often used for the dosages commonly encountered, such as the amount of radiation received from medical x-rays, background sources and the lower levels of radiation normally associated with occupational radiological workers, which they receive on a continual basis and why their exposures are monitored and recorded. Dosimeters for these latter Navy programs use dosimeters that measure dose in the millirem range.		
[P40A / Electronic Personal Dosimeter]: M2200, Electronic Personal Dosimeter (EPD): An electronic dosimeter that includes a real-time digital display of radiation dose being received. These so-called secondary dosimeters are normally used in conjunction with the DT-702 primary dosimeter in order to provide the wearer with real-time radiation dose information and alarm features that aid workers in controlling their radiation exposure. The DT-702 is the Navy's approved dosimeter to record dose of record in each individual's medical record, but it must be turned in and read by a machine (the 8800 Reader) and does not indicate if the radiological environment poses an immediate danger.		
[P40A / M2200 NWCF Contract Service Fee]: M2200 NWCF Contract Service Fee: The PCO for hardware acquisitions is a Navy Working Capital Fund activity that charges a set fee for each contract award and modification. The applicable fee for a given year is applied to the total value of the Cost Code hardware acquisitions.		
[P40A / M2400 - Other RADIAC]: M2400. Other RADIAC. The RADIAC Program fields 70 different families of instruments, consisting of a total of almost 43,000 instruments and 400,000 dosimeters. Those families that fall into similar functionality have been grouped here into the M2100, M2200, M2500 and M2600 Cost Codes. This Cost Code consists of instruments that have specialized functions that only they		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment		P-1 Line Item Number / Title: 2920 / RADIAC
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items: 0708017N	Other Related Program Elements: 0702856N, 0603542N
perform, and therefore would require an unmanageable and meaningless number of additional Cost Codes if each were addressed individually. In the context of the family metaphor used here, these instruments are no less important but are orphans in the sense there are not many of similar functionality that they could be grouped with. This Cost Code also supports replenishment of Ready for Issue (RFI) stocks when instruments in any Cost Code fall below stock levels sufficient to meet quarterly demand. This Cost Element (Spares) is a Continuing element that varies year-to-year based on emergent requirements and the quantity and unit cost of the item(s) being replenished. Supports instruments that are disparate in functionality and cannot be readily grouped into the other RADIAC Cost Codes. [P40A / Ion Chamber Training Device]: M2400, Ion Chamber Training Device: Training simulator used to provide Ion Chamber Survey meter training without the need for trainees to handle radioactive material or be exposed to radiation. [P40A / Criticality Monitor]: M2400, Criticality Monitor: Radiation detection system used to continuously monitor general area radiation levels and designed to detect an uncontrolled reactor criticality event. This system is used in reactor construction and overhaul facilities to ensure compliance with 10CFR20. Award date of FY14 funds has slipped due to technical delays. In FY15 \$65K is needed to pay for environmental and electromagnetic interference testing in addition to the cost of the equipment. [P40A / Criticality Monitor Technical Repair Standard]: M2400, Criticality Monitor Technical Repair Standard: Technical Repair Standard data for the Criticality Monitor. [P40A / MCA Software]: M2400, webREMS: A dose management software system for the Mk2 Electronic Personal Dosimeter (EPD) that will be used to track radiation doses accumulated by workers. The EPD is used primarily at nuclear maintenance facilities and aboard CVNs and submarines. This automated system will automatically retrieve exposure data on the EPDs and replace the current method of manually recorded exposure logs, saving significant man hours and eliminating transcription errors. [P40A / Tool Contamination Monitor, Shore]: M2400, Tool Contamination Monitor: Used to scan tools and other equipment prior to release from a radiological work area to a general work area in order to ensure the equipment did not become contaminated with radiation while being used in the radiological area. [P40A / Tool Contamination Monitor, Ship]: M2400, Tool Contamination Monitor Ship: This is the same instrument as the Tool Contamination Monitor Shore, but the units have to be hardened and modified for shipboard use on the Navy's two AS class ships (submarine tenders). These two units had been combined in the same Cost Element line with the eight shore units, but because the award and delivery dates and the unit prices will be significantly different from the commercial off the shelf shore units, these two units are being listed as a separate cost element. [P40A / Spares]: M2400, Spares: Purchase of additional quantities of existing models of RADIACs to replenish or supplement stocks of spare items due to minor increases in program allowances, minor inventory losses, or due to items being beyond economical repair. [P40A / M2400 NWCF Contract Service Fee]: M2400 NWCF Contract Service Fee: The PCO for hardware acquisitions is a Navy Working Capital Fund activity that charges a set fee for each contract award and modification. The applicable fee for a given year is applied to the total value of the Cost Code hardware acquisitions. [P40A / M2500 - Air Sampling Systems]: M2500. Monitoring for airborne radioactivity is done to detect leaks from nuclear reactors or associated systems to ensure that radioactivity is not inadvertently released to the environment from these operations. Additionally, monitoring for airborne radioactivity is performed during maintenance on radioactive components or during events that might cause radioactivity to be released to the air. Monitoring for airborne radioactivity is normally done by drawing air across filter paper to collect airborne radioactive particles. This filter paper is then evaluated by radiation detectors and the concentration of airborne radioactivity is calculated. The types of airborne radioactivity monitoring systems include fixed systems and portable systems. Fixed systems sample air from pre-determined locations and normally include built-in radiation detectors for determining the airborne radioactivity concentration. Portable systems can be used to sample air at any desired location, but normally require the use of separate radiation detection instruments to measure the radioactive particles deposited on the filter paper to determine the airborne radioactivity concentration.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment		P-1 Line Item Number / Title: 2920 / RADIAC
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items: 0708017N	Other Related Program Elements: 0702856N, 0603542N
[P40A / Air Particle Detector Ship Frames]: M2500, Air Particle Detector, Ship, Frames: Government Furnished Material to be provided to the manufacturer of the APD Ship (IM-272/WDQ). This material consists of the housing and identified internal components from the IM-239/WDQ. The housings and identified internal components from the IM-239/WDQ will be prepared in a RADIAC Program facility and provided to the manufacturer of the IM-272/WDQ. Use of these housings and components reduces the overall cost of the IM-272/WDQ and ensures it has the same footprint as the IM-239/WDQ.		
[P40A / Air Particle Detector, Ship]: M2500, Air Particle Detector, Ship: Airborne radioactivity monitoring system for use on Navy nuclear ships. This system (IM-272/WDQ) is a replacement for the existing IM-239/WDQ used on Navy nuclear ships. The IM-272/WDQ incorporates significant technology enhancements that will reduce spurious false alarms and reduce operator maintenance.		
[P40A / Air Particle Detector Ship Data]: M2500, Air Particle Detector, Ship Data: Upon award of the contract in September 2014, the cost of Contract Data Requirements List and Contract Line Item Number data became known. This data includes a one-time cost for Technical Manuals in FY15. Subsequent years include the Technical Repair Standard, drawings, and production reports with every delivery order.		
[P40A / Air Particle Detector, Shore]: M2500, Air Particle Detector Shore: This system is a replacement for the existing IM-239/WDQ designed for ships that is also currently used in radiological maintenance facilities. The APD Shore incorporates significant technology enhancements that will reduce spurious false alarms and reduce operator maintenance, and since it does not need to be hardened for shipboard use, it will be cheaper to procure and maintain than the new IM-272 units (see line item 4.2)being procured for ships.		
[P40A / Air Particle Sampler First Article]: M2500, Air Particle Sampler First Article: Portable airborne radioactivity sampling system. Used during radiological work or during radiological casualties to draw air across a filter paper to collect radioactive particles. The filter paper is then evaluated using separately provided radiation detectors to determine the concentration of airborne radioactivity.		
[P40A / Air Particle Sampler First Article Testing]: M2500, Air Particle Sampler First Article Testing: Environmental and Electro Magnetic Interference testing.		
[P40A / Air Particle Sampler]: M2500, Air Particle Sampler: Portable airborne radioactivity sampling system. Used during radiological work or during radiological casualties to draw air across a filter paper to collect radioactive particles. The filter paper is then evaluated using separately provided radiation detectors to determine the concentration of airborne radioactivity.		
[P40A / Tritium Monitor]: M2500, Tritium Monitor: The AN/PDR-73 Tritium Monitor is used at nuclear weapons storage facilities and research laboratories to sample the air for the presence of tritium, which is a toxic radiation hazard if inhaled. The current instrument is 30 years old and cannot be repaired due to obsolete components. At the current loss rate due to normal wear and tear there will be insufficient assets to meet operational requirements, so a replacement must be found. In FY17, an additional \$100K is needed to perform environmental and electromagnetic interference testing on the units.		
[P40A / M2500 NWCF Contract Service Fee]: M2500 NWCF Contract Service Fee: The PCO for hardware acquisitions is a Navy Working Capital Fund activity that charges a set fee for each contract award and modification. The applicable fee for a given year is applied to the total value of the Cost Code hardware acquisitions.		
[P40A / M2600 - Laboratory Test Equipment]: M2600. This Cost Code supports specialized equipment usually found in laboratories, hospitals and test facilities. This kind of equipment is distinct enough to warrant separating it for management purposes from the M2400 Cost Code.		
[P40A / Gamma Counter Upgrade]: M2600, Gamma Counter Upgrade: This laboratory equipment provides the capability of detecting loose contamination and the advantage of distinguishing if there is beta or gamma radiation/contamination present in the area. It provides automation in both the actual counting of samples and their automatic analysis. The upgrade is to software and hardware to improve performance and increase functionality. The upgrade will change the detecting medium to increase the counting efficiency.		
[P40A / M2600 NWCF Contract Service Fee]: M2600 NWCF Contract Service Fee: The PCO for hardware acquisitions is a Navy Working Capital Fund activity that charges a set fee for each contract award and modification. The applicable fee for a given year is applied to the total value of the Cost Code hardware acquisitions.		
[P40A / M2830 - Support - Production Engineering]: M2830, Production Engineering: Labor cost of the government and contractor personnel who prepare the acquisitions.		
[P40A / Production Engineering Carderock]: M2830, Production Engineering: Labor cost of the government Engineers, Health Physicists, Scientists and others who prepare the acquisitions.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment		P-1 Line Item Number / Title: 2920 / RADIAC
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B Items: 0708017N	Other Related Program Elements: 0702856N, 0603542N
[P40A / Production Engineering ISEA]: M2830, Production Engineering: Labor cost of the contractor Engineers, Logisticians, Technical Writer, Program Analyst, and Systems Analysts who help prepare the acquisitions. [P40A / M2830 NWCF Contract Service Fee]: M2830 NWCF Contract Service Fee: The PCO for acquisitions is a Navy Working Capital Fund activity that charges a set fee for each contract award and modification. The applicable fee for a given year is applied to the total value of the Cost Code services acquisition.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment					P-1 Line Item Number / Title: 2920 / RADIAC			
ID Code (A=Service Ready, B=Not Service Ready) : B			Program Elements for Code B Items: 0708017N			Other Related Program Elements: 0702856N, 0603542N		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
RADIAC Program	P-40a, P-5a		- / 39.757	- / 9.835	- / 5.153	- / 8.294	- / -	- / 8.294
Total Gross/Weapon System Cost			- / 39.757	- / 9.835	- / 5.153	- / 8.294	- / -	- / 8.294
*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 add due to rounding.								
Justification: Title 10 of the Code of Federal Regulations, Part 20 (10CFR20) requires RADIAC instruments be used to ensure the safety of personnel who work with or are exposed to radioactive materials in their work. Additionally, the Navy's mission requires personnel and ships to have the ability to operate in radiological environments and the ability to identify and interdict radiological Weapons of Mass Destruction (WMD). Navy programs that require RADIAC instruments for Occupational Safety & Health (OSH) reasons under the provisions of 10CFR20 include Naval Nuclear Propulsion, Nuclear Weapons, and Medical and Radiological Affairs Support. Non-OSH programs include Radiological Defense, Consequence Management, Training, Technical (RADIAC calibration, shielding evaluation, research, etc.) and Radiological Search (maritime interdiction to locate or intercept WMD).								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10								P-1 Line Item Number / Title: 2920 / RADIAC							Aggregated Items Title: RADIAC Program				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) M2100 - Survey Meters																				
1.1) Ion Chamber Survey Meter ^(†)	A		4,130.00	400	1.652	1,701.12	200	0.340	-	-	-	-	-	-	-	-	-	-	-	
1.2) u-Rem Survey Meter ^(†)	A		1,696.00	250	0.424	1,626.67	150	0.244	-	-	-	-	-	-	-	-	-	-	-	
1.3) M2100 NWCF Contract Service Fee	A		-	-	0.043	-	-	0.016	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) M2100 - Survey Meters			-	-	2.119	-	-	0.600	-	-	-	-	-	-	-	-	-	-	-	
2) M2200 - Dosimetry																				
2.1) DT-702 Card ^(†)	A		21.36	115,000	2.456	-	-	-	-	-	-	46.71	30,000	1.401	-	-	-	46.71	30,000	1.401
2.2) DT-702 Card Holder ^(†)	A		9.88	65,000	0.642	-	-	-	-	-	-	18.94	10,000	0.189	-	-	-	18.94	10,000	0.189
2.3) DXTRAD Finger Ring ^(†)	A		-	-	-	-	-	-	-	-	-	39.52	3,000	0.119	-	-	-	39.52	3,000	0.119
2.4) Battlefield Dosimeter ^{(1)(†)}	A		-	-	-	150.00	20,000	3.000	150.00	14,000	2.100	150.00	6,000	0.900	-	-	-	150.00	6,000	0.900
2.5) Electronic Personal Dosimeter ^(†)	A		257.04	16,188	4.161	-	-	-	-	-	-	441.00	150	0.066	-	-	-	441.00	150	0.066
2.6) M2200 NWCF Contract Service Fee	A		-	-	0.027	-	-	0.081	-	-	0.003	-	-	0.042	-	-	-	-	-	0.042
Subtotal: 2) M2200 - Dosimetry			-	-	7.286	-	-	3.081	-	-	2.103	-	-	2.717	-	-	-	-	-	2.717
3) M2400 - Other RADIAC																				
3.1) Ion Chamber Training Device ^(†)	A		7,800.00	15	0.117	7,800.00	15	0.117	-	-	-	-	-	-	-	-	-	-	-	-
3.2) Criticality Monitor ^(†)	A		-	-	-	11,998.35	50	0.600	-	-	-	11,998.35	50	0.600	-	-	-	11,998.35	50	0.600
3.3) Criticality Monitor Technical Repair Standard	B		-	-	-	-	-	-	-	-	-	-	-	0.015	-	-	-	-	-	0.015
3.4) MCA Software ^(†)	A		-	-	-	463,000.00	1	0.463	-	-	-	-	-	-	-	-	-	-	-	-
3.5) Tool Contamination Monitor, Shore ^(†)	A		-	-	-	87,285.71	7	0.611	-	-	-	89,234.88	8	0.714	-	-	-	89,234.88	8	0.714
3.6) Tool Contamination Monitor, Ship ^(†)	A		-	-	-	-	-	-	-	-	-	125,000.00	2	0.250	-	-	-	125,000.00	2	0.250
3.7) Spares	A		-	-	6.457	-	-	0.153	-	-	0.172	-	-	0.201	-	-	-	-	-	0.201

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10								P-1 Line Item Number / Title: 2920 / RADIAC							Aggregated Items Title: RADIAC Program				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
3.8) M2400 NWCF Contract Service Fee	A		-	-	0.058	-	-	0.053	-	-	0.003	-	-	0.046	-	-	-	-	-	0.046
<i>Subtotal: 3) M2400 - Other RADIAC</i>			-	-	6.632	-	-	1.997	-	-	0.175	-	-	1.826	-	-	-	-	-	1.826
4) M2500 - Air Sampling Systems																				
4.1) Air Particle Detector Ship Frames ^(†)	A		7,420.00	50	0.371	6,280.00	50	0.314	6,400.00	50	0.320	6,500.00	50	0.325	-	-	-	6,500.00	50	0.325
4.2) Air Particle Detector, Ship ^(†)	A		-	-	-	42,975.00	40	1.719	-	-	-	53,014.00	40	2.121	-	-	-	53,014.00	40	2.121
4.3) Air Particle Detector Ship Data	A		-	-	-	-	-	-	-	-	1.396	-	-	0.164	-	-	-	-	-	0.164
4.4) Air Particle Detector, Shore ^(†)	A		17,400.00	50	0.870	17,400.00	60	1.044	-	-	-	-	-	-	-	-	-	-	-	-
4.5) Air Particle Sampler First Article ^(†)	B		-	-	-	10,000.00	3	0.030	-	-	-	-	-	-	-	-	-	-	-	-
4.6) Air Particle Sampler First Article Testing	A		-	-	-	-	-	0.043	-	-	-	-	-	-	-	-	-	-	-	-
4.7) Air Particle Sampler ^{(2)(†)}	A		-	-	-	-	-	-	1,071.44	200	0.214	1,105.66	200	0.221	-	-	-	1,105.66	200	0.221
4.9) M2500 NWCF Contract Service Fee	A		-	-	0.138	-	-	0.077	-	-	0.039	-	-	0.060	-	-	-	-	-	0.060
<i>Subtotal: 4) M2500 - Air Sampling Systems</i>			-	-	1.379	-	-	3.227	-	-	1.969	-	-	2.891	-	-	-	-	-	2.891
6) M2830 - Support - Production Engineering																				
6.1) Production Engineering Carderock ⁽³⁾	A		-	-	12.697	-	-	0.512	-	-	0.517	-	-	0.520	-	-	-	-	-	0.520
6.2) Production Engineering ISEA	A		-	-	9.635	-	-	0.407	-	-	0.380	-	-	0.340	-	-	-	-	-	0.340
6.3) M2830 NWCF Contract Service Fee	A		-	-	0.009	-	-	0.011	-	-	0.009	-	-	-	-	-	-	-	-	-
<i>Subtotal: 6) M2830 - Support - Production Engineering</i>			-	-	22.341	-	-	0.930	-	-	0.906	-	-	0.860	-	-	-	-	-	0.860
Total			-	-	39.757	-	-	9.835	-	-	5.153	-	-	8.294	-	-	-	-	-	8.294

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2920 / RADIAC	Aggregated Items Title: RADIAC Program

(†) indicates the presence of a P-5a

Footnotes:

(1) M2200, Battlefield Dosimeter: Subsequent to the Fukushima Daiichi nuclear plant disaster, a capability gap was identified wherein ships in the deployed Battle Group were exposed to the lower levels of radiation normally associated with occupational radiological workers. This hampered the continuity of operations and exposed sailors to risk. Therefore, specifications were added to the Battlefield Dosimeter for a device that could provide real-time feedback of doses at occupational ranges, but not be as expensive as an EPD (CE 2.10, approximately \$330 each at FY13 prices). Nonetheless, the Unit Cost of the Battlefield Dosimeter will increase exponentially due to the added capabilities. While the final Unit Cost has not been determined because there has not been a selection of a winning design, costs are expected to be tempered somewhat because this buy will be Joint to satisfy similar requirements for Army and Marine Corps units, so an EOQ buy above the Navy requirements alone are expected to help in that regard.

(2) M2500, Air Particle Sampler: Initial plan was to procure 600 new units at approximately \$3,500 each to supplement existing fielded inventory of 1,200 units, many of which were failing and could not be repaired due to parts obsolescence. Further analysis showed that upgrading the entire inventory including replacement of the obsolete electronics assembly at approximately \$2,000 per unit was a better TOC alternative.

(3) M2830, Production Engineering: The sequestration of FY13 in the amount of \$131K was applied to this cost element in FY13.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10			P-1 Line Item Number / Title: 2920 / RADIAC					Aggregated Items: RADIAC Program				
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) M2100 - Survey Meters												
1.1) Ion Chamber Survey Meter		2014	Atlantic Nuclear / Rockland, MA	C / FFP	NSWC Carderock	Feb 2014	May 2014	200	1,701.12	Y		Mar 2012
1.2) u-Rem Survey Meter		2014	Lauras Systems / Ellicot City, MD	C / FFP	NSWC Carderock	Mar 2014	Jul 2014	150	1,626.67	Y		Apr 2012
2) M2200 - Dosimetry												
2.1) DT-702 Card		2016	Thermo Fisher Scientific / Franklin, MA	SS / IDIQ	NSWC Carderock	Mar 2016	Jun 2016	30,000	46.71	Y		May 2014
2.2) DT-702 Card Holder		2016	Thermo Fisher Scientific / Franklin, MA	SS / IDIQ	NSWC Carderock	Mar 2016	Jun 2016	10,000	18.94	Y		May 2014
2.3) DXTRAD Finger Ring		2016	Thermo Fisher Scientific / Franklin, MA	SS / IDIQ	NSWC Carderock	Mar 2016	Jun 2016	3,000	39.52	Y		May 2014
2.4) Battlefield Dosimeter ⁽¹⁾		2014	TBD / TBD	C / IDIQ	NSWC Carderock	Apr 2015	Oct 2015	20,000	150.00	Y		Dec 2012
2.4) Battlefield Dosimeter ⁽¹⁾		2015	TBD / TBD	C / IDIQ	NSWC Carderock	Apr 2015	Oct 2015	14,000	150.00	Y		Dec 2012
2.4) Battlefield Dosimeter ⁽¹⁾		2016	TBD / TBD	C / IDIQ	NSWC Carderock	Jan 2016	Jul 2016	6,000	150.00	Y		Dec 2012
2.5) Electronic Personal Dosimeter		2016	Thermo Fisher Scientific / Franklin, MA	SS / IDDQ	NSWC Carderock	Jun 2016	Sep 2016	150	441.00	Y		Jul 2013
3) M2400 - Other RADIAC												
3.1) Ion Chamber Training Device		2014	Radiation Safety & Control Services / Stratham, NH	SS / FFP	NSWC Carderock	Feb 2014	May 2014	15	7,800.00	Y		Apr 2012
3.2) Criticality Monitor		2014	Canberra Industries / Oakridge, TN	C / FFP	NSWC Carderock	Jun 2015	Oct 2015	50	11,998.35	Y		Apr 2011
3.2) Criticality Monitor		2016	Canberra Industries / Oakridge, TN	C / FFP	NSWC Carderock	Jan 2016	May 2016	50	11,998.35	Y		Apr 2011
3.4) MCA Software		2014	Canberra Industries / Meriden, CT	SS / FFP	NSWC Carderock	Apr 2014	Jun 2014	1	463,000.00	Y		Oct 2013
3.5) Tool Contamination Monitor, Shore		2014	Canberra Industries / Meriden, CT	SS / FFP	NSWC Carderock	Feb 2015	Sep 2015	7	87,285.71	Y		Aug 2014
3.5) Tool Contamination Monitor, Shore		2016	Canberra Industries / Meriden, CT	SS / FFP	NSWC Carderock	Jan 2016	Jul 2016	8	89,234.88	Y		Aug 2014
3.6) Tool Contamination Monitor, Ship		2016	TBD / New MFG - Loc	C / TBD	NSWC Carderock	Oct 2015	May 2016	2	125,000.00	Y		Aug 2014
4) M2500 - Air Sampling Systems												
4.1) Air Particle Detector Ship Frames		2014	Puget Sound NSY / Bremerton, WA	WR	** NO PCO **	Nov 2013	Feb 2014	50	6,280.00	Y		
4.1) Air Particle Detector Ship Frames		2015	Puget Sound NSY / Bremerton, WA	WR	** NO PCO **	Oct 2014	Jan 2015	50	6,400.00	Y		
4.1) Air Particle Detector Ship Frames		2016	Puget Sound NSY / Bremerton, WA	WR	** NO PCO **	Oct 2015	Jan 2016	50	6,500.00	Y		
4.2) Air Particle Detector, Ship		2014	Leidos / San Diego, CA	C / FFP	NSWC Carderock	Sep 2014	Jul 2015	40	42,975.00	Y		Feb 2011
4.2) Air Particle Detector, Ship		2016	Leidos / San Diego, CA	C / FFP	NSWC Carderock	Mar 2016	Jan 2017	40	53,014.00	Y		Feb 2011
4.4) Air Particle Detector, Shore		2014	Canberra Industries / Meriden, CT	C / FFP	NSWC Carderock	Mar 2015	Sep 2015	60	17,400.00	Y		Oct 2012
4.5) Air Particle Sampler First Article		2014	Spectral Labs, Inc. / San Diego, CA	C / FFP	NSWC Carderock	Sep 2014	Dec 2014	3	10,000.00	Y		Jun 2014

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2920 / RADIAC						Aggregated Items: RADIAC Program			
Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date	
4.7) Air Particle Sampler ⁽²⁾		2015	Spectral Labs, Inc. / San Diego, CA	C / FFP	NSWC Carderock	Jul 2015	Jun 2016	200	1,071.44	Y		Jun 2014	
4.7) Air Particle Sampler ⁽²⁾		2016	Spectral Labs, Inc. / San Diego, CA	C / FFP	NSWC Carderock	Jul 2016	Jun 2017	200	1,105.66	Y		Jun 2014	

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment							P-1 Line Item Number / Title: 2925 / CANES Intell					
ID Code (A=Service Ready, B=Not Service Ready) : A				Program Elements for Code B Items:				Other Related Program Elements: 0303138N				
Line Item MDAP/MAIS Code: M417		Item MDAP/MAIS Code(s):										
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	137.136	55.262	61.215	28.695	-	28.695	51.478	48.333	47.963	48.926	749.200	1,228.208
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	137.136	55.262	61.215	28.695	-	28.695	51.478	48.333	47.963	48.926	749.200	1,228.208
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	137.136	55.262	61.215	28.695	-	28.695	51.478	48.333	47.963	48.926	749.200	1,228.208
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Consolidated Afloat Networks & Enterprise Services (CANES) is the Navy's only Program of Record to replace existing afloat networks and provide the necessary infrastructure for applications, systems, and services to dominate the cyber warfare domain. CANES is the technical and infrastructure consolidation of existing, separately managed afloat networks including Integrated Shipboard Network Systems (ISNS), Combined Enterprise Regional Information Exchange System - Maritime, Sensitive Compartmented Information (SCI) Networks, and Submarine Local Area Network. These legacy afloat network designs are currently End of Life and CANES will replace these unaffordable and obsolete networks. The fundamental goal of CANES is to bring Infrastructure as a Service (IaaS) and Platform as a Service (PaaS), within which current and future iterations of Navy Tactical Network computing and storage capabilities will reside. CANES will provide complete infrastructure inclusive of hardware, software, processing, storage, and end user devices for Unclassified, Coalition, Secret and SCI for all basic network services (email, web, chat, collaboration) to a wide variety of Navy surface combatants, submarines, Maritime Operations Centers, Regional Network Operations and Security Centers (RNOSCs) and Aircraft. In addition, hosted applications and systems inclusive of Command and Control, Intelligence, Surveillance and Reconnaissance, Information Operations, Logistics and Business domains require the CANES infrastructure to operate in the tactical environment. Integrating these applications and systems is accomplished through Application Integration, the engineering process used to evaluate and validate compatibility between the CANES IaaS / PaaS and the Navy-validated applications, systems and services that will utilize the CANES infrastructure and services. Specific programs, such as Distributed Common Ground System - Navy, Global Command and Control System - Maritime, Naval Tactical Command Support System, and Undersea Warfare Decision Support System, are dependent on the CANES Common Computing Environment to field, host, and sustain their capability because they no longer provide their own hardware. CANES will develop technical updates on a rolling four year hardware baseline and a two year software baseline. Fielding of rolling baselines will occur every eight years for major hardware and four years for minor hardware and software. CANES is based on the overarching concept of reducing the number of afloat networks and providing enhanced efficiency through a single engineering focus on integrated technical solutions. This will allow for streamlined acquisition, contracting, and test events, and significant lifecycle efficiencies through consolidation of multiple current configuration management baselines, logistics, and training efforts into a unified support structure.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment					P-1 Line Item Number / Title: 2925 / CANES Intell			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements: 0303138N		
Line Item MDAP/MAIS Code: M417			Item MDAP/MAIS Code(s):					

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / CANES Intell	P-5		- / 1.050	- / -	- / -	- / -	- / -	- / -
1 / CANES-Afloat 5G010/5G777 MIP ()	P-3a		- / 132.855	- / 54.312	- / 61.215	- / 28.421	- / -	- / 28.421
2 / CANES - Ashore 5G010/5G776 MIP ()	P-3a		- / 3.231	- / 0.950	- / -	- / 0.274	- / -	- / 0.274
Total Gross/Weapon System Cost			- / 137.136	- / 55.262	- / 61.215	- / 28.695	- / -	- / 28.695

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / CANES Intell	P-5		- / -	- / -	- / -	- / -	- / -	- / -
1 / CANES-Afloat 5G010/5G777 MIP ()	P-3a		- / 48.843	- / 46.707	- / 46.717	- / 47.384	- / 726.700	- / 1,193.154
2 / CANES - Ashore 5G010/5G776 MIP ()	P-3a		- / 2.635	- / 1.626	- / 1.246	- / 1.542	- / 22.500	- / 34.004
Total Gross/Weapon System Cost			- / 51.478	- / 48.333	- / 47.963	- / 48.926	- / 749.200	- / 1,228.208

*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 add due to rounding.

Justification:
FY 2016 - CANES MIP funds are for the procurement of (9) Afloat production units, (4) Afloat Technical Insertion units, (1) Afloat First Article, and (1) Ashore production unit, with integration, and associated costs for pre-installation design. In addition, the FY16 CANES investment will fund installation of (21) Afloat production units and (1) Ashore production unit.

The related RD TEN PE is CANES Integration PE 0303138N. It is important to note, procurement quantities across the FYDP are the same CANES end item product referenced in CANES LI 2915. Installation quantities represent sites receiving CANES as also referenced in LI 2915. The associated dollars in this exhibit represent the MIP portions of the CANES enclave.

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Exhibit P-5, Cost Analysis: PB 2016 Navy								Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2925 / CANES Intell					Item Number / Title [DODIC]: 1 / CANES Intell									
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)		1.050	-	-	-	-	-	-	-	-	-	-	-					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) (\$ in Millions)		1.050	-	-	-	-	-	-	-	-	-	-	-					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		1.050	-	-	-	-	-	-	-	-	-	-	-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-	-	-	-	-	-	-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
1.1.1) Cooperative Maritime Forces Pacific (CMFP)	-	-	1.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	1.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	1.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	1.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
1.1.1) Cooperative Maritime Forces Pacific (CMFP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10						P-1 Line Item Number / Title: 2925 / CANES Intell							Item Number / Title [DODIC]: 1 / CANES Intell					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2925 / CANES Intell					Modification Number / Title: 1 / CANES-Afloat 5G010/5G777 MIP			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	132.855	54.312	61.215	28.421	-	28.421	48.843	46.707	46.717	47.384	726.700	1,193.154
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	132.855	54.312	61.215	28.421	-	28.421	48.843	46.707	46.717	47.384	726.700	1,193.154
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	132.855	54.312	61.215	28.421	-	28.421	48.843	46.707	46.717	47.384	726.700	1,193.154
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The consolidation of existing Afloat Network programs of record designed to provide an agile, responsive Common Computing Environment (CCE) and Afloat Core Services (ACS) within and upon which application developers will host Command and Control, Warfare, Intelligence, Logistics, and business and education applications and services. Migration of Non-Classified Enclave (NCE) capabilities into the CANES baseline.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2925 / CANES Intell				Modification Number / Title: 1 / CANES-Afloat 5G010/5G777 MIP				
Models of Systems Affected: Consolidated Afloat Networks & Enterprise Services (CANES) MIP				Modification Type:				Related RDT&E PEs: 0303238N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: CANES-Afloat 5G010/5G777 MIP												
B Kits												
Recurring												
1.1.1) CANES - Afloat Production Units - MIP - NonOrganic ⁽¹⁾	30 / 71.890	16 / 27.267	23 / 32.747	9 / 6.026	- / -	9 / 6.026	22 / 20.540	18 / 14.955	10 / 8.974	19 / 15.554	21 / 26.191	168 / 224.144
1.1.2) CANES Afloat Technical Insertion - MIP - NonOrganic ⁽²⁾	- / -	- / -	- / -	4 / 1.781	- / -	4 / 1.781	14 / 10.839	25 / 11.723	25 / 15.660	19 / 12.164	471 / 398.262	558 / 450.429
Subtotal: Recurring	- / 71.890	- / 27.267	- / 32.747	- / 7.807	- / -	- / 7.807	- / 31.379	- / 26.678	- / 24.634	- / 27.718	- / 424.453	- / 674.573
Non-Recurring												
1.2.1) CANES - Afloat First Articles - MIP - Organic ⁽³⁾	7 / 28.784	1 / 1.888	1 / 1.914	1 / 1.812	- / -	1 / 1.812	- / -	1 / 0.641	1 / 0.625	- / -	1 / 1.812	13 / 37.476
1.2.2) CANES-Non-Recurring Engineering (MIP) - Organic ⁽⁴⁾	- / 4.732	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.732
Subtotal: Non-Recurring	- / 33.516	- / 1.888	- / 1.914	- / 1.812	- / -	- / 1.812	- / -	- / 0.641	- / 0.625	- / -	- / 1.812	- / 42.208
Subtotal: CANES-Afloat 5G010/5G777 MIP	37 / 105.406	17 / 29.155	24 / 34.661	14 / 9.619	- / -	14 / 9.619	36 / 31.379	44 / 27.319	36 / 25.259	38 / 27.718	493 / 426.265	739 / 716.781
Subtotal: Procurement, All Modification Items	- / 105.406	- / 29.155	- / 34.661	- / 9.619	- / -	- / 9.619	- / 31.379	- / 27.319	- / 25.259	- / 27.718	- / 426.265	- / 716.781
Support (All Modification Items)												
2.1) CANES - Afloat Production Support (MIP)	- / 3.695	- / 1.435	- / 1.724	- / 0.411	- / -	- / 0.411	- / 1.652	- / 1.404	- / 1.297	- / 1.459	- / 22.336	- / 35.413
2.2) CANES - Afloat Design Service Agent (MIP)	- / 5.583	- / 1.543	- / 2.347	- / 0.857	- / -	- / 0.857	- / 1.317	- / 1.287	- / 0.900	- / 1.200	- / 1.724	- / 16.758
Subtotal: Support	- / 9.278	- / 2.978	- / 4.071	- / 1.268	- / -	- / 1.268	- / 2.969	- / 2.691	- / 2.197	- / 2.659	- / 24.060	- / 52.171
Installation												
Modification Item 1 of 1: CANES-Afloat 5G010/5G777 MIP	- / 18.171	- / 22.179	- / 22.483	- / 17.534	- / -	- / 17.534	- / 14.495	- / 16.697	- / 19.261	- / 17.007	- / 276.375	- / 424.202
Subtotal: Installation	- / 18.171	- / 22.179	- / 22.483	- / 17.534	- / -	- / 17.534	- / 14.495	- / 16.697	- / 19.261	- / 17.007	- / 276.375	- / 424.202
Total												
Total Cost (Procurement + Support + Installation)	132.855	54.312	61.215	28.421	-	28.421	48.843	46.707	46.717	47.384	726.700	1,193.154

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Exhibit P-3a, Individual Modification: PB 2016 Navy											Date: February 2015																				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10										P-1 Line Item Number / Title: 2925 / CANES Intell										Modification Number / Title: 1 / CANES-Afloat 5G010/5G777 MIP											
Modification Item 1 of 1: CANES-Afloat 5G010/5G777 MIP																															
Manufacturer Information																															
Manufacturer Name: Northrop Grumman Systems Corp. ⁽⁵⁾													Manufacturer Location: Herndon, VA																		
Administrative Leadtime (in Months): 4													Production Leadtime (in Months): 6																		
Dates		FY 2014			FY 2015			FY 2016			FY 2017			FY 2018			FY 2019			FY 2020											
Contract Dates		Feb 2014																													
Delivery Dates		Aug 2014																													
Manufacturer Name: Multiple Vendors ⁽⁶⁾													Manufacturer Location: Various																		
Administrative Leadtime (in Months): 1													Production Leadtime (in Months): 6																		
Dates		FY 2014			FY 2015			FY 2016			FY 2017			FY 2018			FY 2019			FY 2020											
Contract Dates		Jan 2015			Apr 2015			Nov 2015																							
Delivery Dates		Jul 2015			Oct 2015			May 2016																							
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: CANES - Afloat Production Units - MIP																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		14 / 18.171	15 / 17.725	1 / 2.983	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 38.879																		
FY 2014		- / -	5 / 4.454	10 / 14.531	1 / 0.500	- / -	1 / 0.500	- / -	- / -	- / -	- / -	- / -	16 / 19.485																		
FY 2015		- / -	- / -	5 / 4.969	18 / 15.170	- / -	18 / 15.170	- / -	- / -	- / -	- / -	- / -	23 / 20.139																		
FY 2016		- / -	- / -	- / -	2 / 1.864	- / -	2 / 1.864	7 / 6.841	- / -	- / -	- / -	- / -	9 / 8.705																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	5 / 5.969	17 / 12.663	- / -	- / -	- / -	22 / 18.632																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.559	14 / 13.721	- / -	- / -	18 / 16.280																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.567	9 / 6.233	- / -	10 / 6.800																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 4.303	13 / 11.058	19 / 15.361																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 17.864	21 / 17.864																		
Total		14 / 18.171	20 / 22.179	16 / 22.483	21 / 17.534	- / -	21 / 17.534	12 / 12.810	21 / 15.222	15 / 14.288	15 / 10.536	34 / 28.922	168 / 162.145																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	14	-	2	4	8	2	4	4	6	6	6	5	8	2	4	3	4	1	9	6	2	4	6	5	3	1	3	2	3	41	168
Out	7	1	1	7	2	5	5	3	5	6	6	6	3	5	9	3	3	3	4	5	9	2	4	5	1	5	4	3	1	45	168

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10		P-1 Line Item Number / Title: 2925 / CANES Intell			Modification Number / Title: 1 / CANES-Afloat 5G010/5G777 MIP		

Modification Item 1 of 1: CANES-Afloat 5G010/5G777 MIP

Installation Information

Method of Implementation: [none specified]:: Installation Name: CANES Afloat Technical Insertion - MIP

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.795	- / -	- / -	- / -	- / -	4 / 0.795
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.890	11 / 1.319	- / -	- / -	- / -	14 / 2.209
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.156	23 / 3.669	- / -	- / -	25 / 3.825
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.304	22 / 5.899	- / -	25 / 7.203
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.572	17 / 8.620	19 / 9.192
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	471 / 238.833	471 / 238.833
Total	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.685	13 / 1.475	26 / 4.973	24 / 6.471	488 / 247.453	558 / 262.057

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	4	4	1	6	1	11	5	5	5	10	8	5	490	558
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	4	3	2	5	2	11	4	5	7	6	12	494	558

Method of Implementation (Organic): Not Installed - CANES - Afloat First Articles - MIP

Installation Quantity: 13

Footnotes:

(1) CANES Afloat production units require an additional 4 months after delivery for operational integration, assembly and testing prior to installation start. Installs do not begin until 10 months after contract award (6 months production lead time + 4 months integration). Total Lead Time, including admin lead time, is 11 months. -First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability. -Average unit cost fluctuations are attributable to variances in system configuration requirements among platforms. A DDG/CG/LSD (unit level platforms) has fewer users and runs fewer applications than a LHD/CVN (force level platforms). Force level platforms are larger in scale compared to the unit level ships and represent a super set of users, applications and connected systems. -Installation cost fluctuations are attributed to and dependent on class, level of the platform, variant of predecessor system the hull currently has installed (ISNS Alpha/Charlie/Delta/Legacy), geographic location of the installation, and length of the availability. As an example of variant differences, if a CVN has an ISNS Delta variant installed, a CANES installation is estimated to be \$11.2M. If that same CVN had a legacy ATM LAN the CANES installation is estimated to be \$16.4M. The legacy LAN installation has the additional cost of rewiring all the drops, while the newer variants of ISNS allow for reuse of drops during the CANES installation.

(2) DSA funding is not required for the initial CANES Technical Insertion (TI) installs.

(3) First articles are defined as necessary production design drawings, environmental (shock and vibration) qualifications, logistics and training artifacts as well as a certified tested baseline provided to the government for each platform first of its kind. First articles are separate from production units and must be bought prior to the procurement of the corresponding production units. Procurement Lead Time (PLT) is

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2925 / CANES Intell	Modification Number / Title: 1 / CANES-Afloat 5G010/5G777 MIP
8 months for First Articles (DDG,CVN, submarines, etc). All following production articles of the same variant require a PLT of 6 months. CANES First Articles are not installed. Average unit cost fluctuations are attributable to variances in system configuration requirements among platforms. A DDG/CG/LSD (unit level platforms) has fewer users and runs fewer applications than a LHD/CVN (force level platforms). Force level platforms are larger in scale compared to the unit level ships and represent a super set of users, applications and connected systems. The FY14, FY15, and FY16 units are Unit Level procurements. ⁽⁴⁾ The NRE cost element reflects production engineering costs related to delivery of the first production units. These costs include CVN and DDG design hardware baseline updates required as a result of deficiencies found during the manufacturing process and updates to related production documentation, both of which are required prior to final acceptance by the government. ⁽⁵⁾ FY2014 Limited Deployment contracts. ⁽⁶⁾ CANES: Full Production Contract has 7 possible vendors on MAC award: Northrop Grumman Systems Corp, BAE Sytems Technology Solutions & Services, General Dynamics C4 Systems, Global Technical Systems, SERCO, Inc, CGI Federal Inc, DRS Laurel Technologies		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2925 / CANES Intell					Modification Number / Title: 2 / CANES - Ashore 5G010/5G776 MIP			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	3.231	0.950	-	0.274	-	0.274	2.635	1.626	1.246	1.542	22.500	34.004
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	3.231	0.950	-	0.274	-	0.274	2.635	1.626	1.246	1.542	22.500	34.004
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	3.231	0.950	-	0.274	-	0.274	2.635	1.626	1.246	1.542	22.500	34.004
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The consolidation of existing Ashore Network programs of record designed to provide an agile, responsive Common Computing Environment (CCE) and the eventual addition of Afloat Core Services (ACS) within and upon which application developers will host Command and Control, Warfare, Intelligence, Logistics, and business and education applications and services for Maritime Operation Command (MOC), Regional Network Operations and Security Centers (RNOSC) and Technical Training Equipment (TTE).												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10			P-1 Line Item Number / Title: 2925 / CANES Intell					Modification Number / Title: 2 / CANES - Ashore 5G010/5G776 MIP				
Models of Systems Affected: Consolidated Afloat Networks & Enterprise Services (CANES) MIP			Modification Type:					Related RDT&E PEs: 0303238N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: CANES - Ashore 5G010/5G776 MIP												
B Kits												
Recurring												
1.1.1) CANES-Ashore Production Units MIP - NonOrganic ⁽⁷⁾	- / -	2 / 0.497	- / -	1 / 0.143	- / -	1 / 0.143	- / -	1 / 0.611	1 / 0.654	1 / 0.675	3 / 2.376	9 / 4.956
1.1.2) CANES - Ashore Technical Insertion - MIP - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.329	- / -	1 / 0.182	31 / 4.629	34 / 5.140
Subtotal: Recurring	- / 0.000	- / 0.497	- / -	- / 0.143	- / -	- / 0.143	- / -	- / 0.940	- / 0.654	- / 0.857	- / 7.005	- / 10.096
Non-Recurring												
1.2.1) CANES - Ashore First Articles - MIP - Organic ⁽⁸⁾	1 / 3.231	- / -	- / -	- / -	- / -	- / -	1 / 2.600	- / -	- / -	- / -	- / -	2 / 5.831
Subtotal: Non-Recurring	- / 3.231	- / -	- / -	- / -	- / -	- / -	- / 2.600	- / -	- / -	- / -	- / -	- / 5.831
Subtotal: CANES - Ashore 5G010/5G776 MIP	1 / 3.231	2 / 0.497	- / -	1 / 0.143	- / -	1 / 0.143	1 / 2.600	3 / 0.940	1 / 0.654	2 / 0.857	34 / 7.005	45 / 15.927
Subtotal: Procurement, All Modification Items	- / 3.231	- / 0.497	- / -	- / 0.143	- / -	- / 0.143	- / 2.600	- / 0.940	- / 0.654	- / 0.857	- / 7.005	- / 15.927
Support (All Modification Items)												
2.1) CANES - Ashore Production Support (MIP)	- / -	- / 0.026	- / -	- / 0.008	- / -	- / 0.008	- / -	- / 0.049	- / 0.034	- / 0.045	- / 0.372	- / 0.534
2.2) CANES - Ashore Design Service Agent (MIP)	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.035	- / 0.036	- / 0.038	- / 0.039	- / 0.102	- / 0.250
Subtotal: Support	- / 0.000	- / 0.026	- / -	- / 0.008	- / -	- / 0.008	- / 0.035	- / 0.085	- / 0.072	- / 0.084	- / 0.474	- / 0.784
Installation												
Modification Item 1 of 1: CANES - Ashore 5G010/5G776 MIP	- / 0.000	- / 0.427	- / -	- / 0.123	- / -	- / 0.123	- / -	- / 0.601	- / 0.520	- / 0.601	- / 15.021	- / 17.293
Subtotal: Installation	- / 0.000	- / 0.427	- / -	- / 0.123	- / -	- / 0.123	- / -	- / 0.601	- / 0.520	- / 0.601	- / 15.021	- / 17.293
Total												
Total Cost (Procurement + Support + Installation)	3.231	0.950	-	0.274	-	0.274	2.635	1.626	1.246	1.542	22.500	34.004

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10					P-1 Line Item Number / Title: 2925 / CANES Intell					Modification Number / Title: 2 / CANES - Ashore 5G010/5G776 MIP																					
Modification Item 1 of 1: CANES - Ashore 5G010/5G776 MIP																															
Manufacturer Information																															
Manufacturer Name: SSC Atlantic/Pacific										Manufacturer Location: SPAWAR																					
Administrative Leadtime (in Months): 4										Production Leadtime (in Months): 6																					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020																								
Contract Dates	Feb 2014																														
Delivery Dates	Jul 2014																														
Manufacturer Name: TBD (Competitive Procurement) ⁽⁹⁾										Manufacturer Location: TBD (Competitive Procurement)																					
Administrative Leadtime (in Months): 1										Production Leadtime (in Months): 5																					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020																								
Contract Dates			Nov 2015																												
Delivery Dates			Apr 2016																												
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: CANES-Ashore Production Units MIP																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2014		- / -	2 / 0.427	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.427																	
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2016		- / -	- / -	- / -	1 / 0.123	- / -	1 / 0.123	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.123																	
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.486	- / -	- / -	- / -	- / -	1 / 0.486																	
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.520	- / -	- / -	- / -	1 / 0.520																	
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.537	- / -	- / -	1 / 0.537																	
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.864	3 / 1.864																		
Total		- / -	2 / 0.427	- / -	1 / 0.123	- / -	1 / 0.123	- / -	1 / 0.486	1 / 0.520	1 / 0.537	3 / 1.864	9 / 3.957																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	3	9
Out	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	4	9

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2925 / CANES Intell	Modification Number / Title: 2 / CANES - Ashore 5G010/5G776 MIP

Modification Item 1 of 1: CANES - Ashore 5G010/5G776 MIP

Installation Information

Method of Implementation: [none specified]:: Installation Name: CANES - Ashore Technical Insertion - MIP

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.115	- / -	- / -	- / -	2 / 0.115
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.064	- / -	1 / 0.064
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 13.157	31 / 13.157
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.115	- / -	1 / 0.064	31 / 13.157	34 / 13.336

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	31	34	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	32	34	

Method of Implementation (Organic): Not Installed - CANES - Ashore First Articles - MIP

Installation Quantity: 2

Footnotes:

⁽⁷⁾ - Ashore procurement quantities are detailed as follows: Technical Training Equipment (TTE) - FY14 (2), FY15 (0), FY16 (1), FY17 (0), FY18 (0), FY19 (0), FY20 (0); Maritime Operation Command (MOC) - FY14 (0), FY15 (0), FY16 (0), FY17 (0), FY18 (1), FY19 (1), FY20 (1). -A MOC is a fully operational system configuration. A TTE configuration is a subset of a MOC configuration. This scale difference accounts for the fluctuation in per unit costs across fiscal years commensurate with the procurement quantities outlined in above note. -TTE has no associated DSA requirements.

⁽⁸⁾ Production Lead Time is 8 months for First Articles. First Articles are defined as necessary production design drawings, environmental (shock and vibration) qualifications, logistics and training artifacts as well as a certified tested baseline provided to the government for each platform first of its kind. All following articles of the same variant require a Production Lead Time of 5 months for Ashore units and 6 months for afloat units. Total Ashore lead time, including 1 month Admin lead time, is 6 months. Ashore production lead times require one month less than Afloat production lead times due to the long lead time afloat production quality racks and minimized shock and vibration requirements for shore facilities. CANES First Articles are not installed. First Article average unit cost fluctuations are attributable to variances in system configuration requirements among shore sites. A shore training unit (TTE) has fewer users and runs fewer applications than a shore Maritime Operations Center (MOC). MOCs are larger in scale compared to the shore training sites and represent a super set of users, applications and connected systems. The prior year Ashore First Article procurement is one training unit; FY16 is a MOC First Article procurement.

⁽⁹⁾ FY 2016 Contractor and location will be competed.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment							P-1 Line Item Number / Title: 2940 / Gen Purp Elec Test Equip (GPETE)					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	44.638	6.253	6.284	6.962	-	6.962	6.772	6.932	7.087	7.235	42.790	134.953
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	44.638	6.253	6.284	6.962	-	6.962	6.772	6.932	7.087	7.235	42.790	134.953
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	44.638	6.253	6.284	6.962	-	6.962	6.772	6.932	7.087	7.235	42.790	134.953
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: This program provides for the initial procurement and distribution of General Purpose Electronic Test Equipment (GPETE). This equipment is essential to the operational readiness of the Navy for repair, installation, and maintenance (preventive and routine) of electronic systems and equipments, both afloat and ashore. The GPETE procured must meet rigid technical requirements, be cost effective and satisfy valid deficiencies in authorized allowance.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment				P-1 Line Item Number / Title: 2940 / Gen Purp Elec Test Equip (GPETE)				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Gen Purp Elec Test Equip (GPETE)	P-40a, P-5a		- / 44.638	- / 6.253	- / 6.284	- / 6.962	- / -	- / 6.962
Total Gross/Weapon System Cost			- / 44.638	- / 6.253	- / 6.284	- / 6.962	- / -	- / 6.962
*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 add due to rounding.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10								P-1 Line Item Number / Title: 2940 / Gen Purp Elec Test Equip (GPETE)							Aggregated Items Title: Gen Purp Elec Test Equip (GPETE)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) M6000 FIBER OPTICS																				
1.1) FIBER OPTICS AND DATA COMM ^(†)	A		33,921.35	89	3.019	6,882.35	34	0.234	7,000.00	34	0.238	7,057.14	35	0.247	-	-	-	7,057.14	35	0.247
Subtotal: 1) M6000 FIBER OPTICS			-	-	3.019	-	-	0.234	-	-	0.238	-	-	0.247	-	-	-	-	-	0.247
2) M6001 SIGNAL GENERATORS																				
2.1) SIGNAL GENERATORS & ANALYZERS ^(†)	A		53,088.40	543	28.827	10,166.67	72	0.732	10,338.03	71	0.734	12,384.62	104	1.288	-	-	-	12,384.62	104	1.288
Subtotal: 2) M6001 SIGNAL GENERATORS			-	-	28.827	-	-	0.732	-	-	0.734	-	-	1.288	-	-	-	-	-	1.288
3) M6002 OSCILLSCPS, METERS																				
3.1) OSCILLSCPS, METERS&COUNTERS ^(†)	A		5,410.75	1,619	8.760	3,235.02	851	2.753	3,289.60	846	2.783	3,381.35	847	2.864	-	-	-	3,381.35	847	2.864
Subtotal: 3) M6002 OSCILLSCPS, METERS			-	-	8.760	-	-	2.753	-	-	2.783	-	-	2.864	-	-	-	-	-	2.864
4) M6003 PROC ENGR AND DOCUMENTATION																				
4.1) PROC ENG AND DOCUMENTATION	A		-	-	4.032	-	-	0.896	-	-	0.869	-	-	0.809	-	-	-	-	-	0.809
Subtotal: 4) M6003 PROC ENGR AND DOCUMENTATION			-	-	4.032	-	-	0.896	-	-	0.869	-	-	0.809	-	-	-	-	-	0.809
5) M6004 PASSIVE ANCILLARY AND MECHANICAL																				
5.1) PASSIVE ANCILLARY AND MECHANICAL ^(†)	A		-	-	-	1,591.84	1,029	1.638	1,617.93	1,026	1.660	1,675.26	1,047	1.754	-	-	-	1,675.26	1,047	1.754
Subtotal: 5) M6004 PASSIVE ANCILLARY AND MECHANICAL			-	-	0.000	-	-	1.638	-	-	1.660	-	-	1.754	-	-	-	-	-	1.754
Total			-	-	44.638	-	-	6.253	-	-	6.284	-	-	6.962	-	-	-	-	-	6.962

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10			P-1 Line Item Number / Title: 2940 / Gen Purp Elec Test Equip (GPETE)					Aggregated Items: Gen Purp Elec Test Equip (GPETE)				
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) M6000 FIBER OPTICS												
1.1) FIBER OPTICS AND DATA COMM		2012	NSWC / CHINA LAKE	WR	SEAL BEACH	Nov 2011	Mar 2012	30	10,000.00	Y		
1.1) FIBER OPTICS AND DATA COMM		2013	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2012	Mar 2013	29	10,000.00	Y		
1.1) FIBER OPTICS AND DATA COMM		2014	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2013	Mar 2014	34	6,882.35	Y		
1.1) FIBER OPTICS AND DATA COMM		2015	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2014	Mar 2015	34	7,000.00	Y		
1.1) FIBER OPTICS AND DATA COMM		2016	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2015	Mar 2016	35	7,057.14	Y		
2) M6001 SIGNAL GENERATORS												
2.1) SIGNAL GENERATORS & ANALYZERS		2012	NSWC / CHINA LAKE	WR	SEAL BEACH	Nov 2011	Mar 2012	186	16,000.00	Y		
2.1) SIGNAL GENERATORS & ANALYZERS		2013	NSWC / CHINA LAKE	WR	CHINA LAKE	Dec 2012	Apr 2013	171	16,000.00	Y		
2.1) SIGNAL GENERATORS & ANALYZERS		2014	NSWC / CHINA LAKE	WR	CHINA LAKE	Dec 2013	Apr 2014	72	10,166.67	Y		
2.1) SIGNAL GENERATORS & ANALYZERS		2015	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2014	Mar 2015	71	10,338.03	Y		
2.1) SIGNAL GENERATORS & ANALYZERS		2016	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2015	Mar 2016	104	12,384.62	Y		
3) M6002 OSCILLSCPS, METERS												
3.1) OSCILLSCPS, METERS&COUNTERS		2012	NSWC / CHINA LAKE	WR	SEAL BEACH	Nov 2011	Mar 2012	545	4,000.00	Y		
3.1) OSCILLSCPS, METERS&COUNTERS		2013	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2012	Mar 2013	501	4,000.00	Y		
3.1) OSCILLSCPS, METERS&COUNTERS		2014	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2013	Mar 2014	851	3,235.02	Y		
3.1) OSCILLSCPS, METERS&COUNTERS		2015	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2014	Mar 2015	846	3,289.60	Y		
3.1) OSCILLSCPS, METERS&COUNTERS		2016	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2015	Mar 2016	847	3,381.35	Y		
5) M6004 PASSIVE ANCILLARY AND MECHANICAL												
5.1) PASSIVE ANCILLARY AND MECHANICAL		2014	NSWC / CHINA LAKE	WR	SEAL BEACH	Nov 2013	Mar 2014	1,029	1,591.84	Y		
5.1) PASSIVE ANCILLARY AND MECHANICAL		2015	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2014	Mar 2015	1,026	1,617.93	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2940 / Gen Purp Elec Test Equip (GPETE)				Aggregated Items: Gen Purp Elec Test Equip (GPETE)				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
5.1) PASSIVE ANCILLARY AND MECHANICAL		2016	NSWC / CHINA LAKE	WR	CHINA LAKE	Nov 2015	Mar 2016	1,047	1,675.26	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment							P-1 Line Item Number / Title: 2950 / Network Tactical Common Data Link (CDL)					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	0.290	-	0.290	-	14.375	25.528	20.912	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	0.290	-	0.290	-	14.375	25.528	20.912	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	-	0.290	-	0.290	-	14.375	25.528	20.912	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	0.358	0.671	-	0.190	Continuing	Continuing
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Network Tactical Common Data Link (NTCDL) provides network interface capability, wideband encryption, and command link upgrades to the Communication Data Link System (CDLS). Primarily, NTCDL provides multiple networked, simultaneous links, to support surface to air, air to surface, air to air, and surface to surface platform ISR communications, where CDLS is a single link, point to point, air to surface/ surface to air capability. It is designed to communicate with the Signals Intelligence Mission and the Distributed Common Ground Station - Navy. CDLS benefits the fleet by providing horizon extension for line-of-sight sensor systems for use in time critical strike missions and is interoperable with the FA-18 Shared Reconnaissance Pod, Tactical Common Data Link (TCDL) equipped P-3C and electronics EP-3E navy aircraft, United States Air Force Dual Data Link II equipped special aircraft, and Global Hawk High Altitude Endurance Unmanned Aerial Vehicle. The Video Interface Group kit is an additional workstation that provides streaming video display, record, and playback capability to support NTCDL Equipped Navy Aircraft. The current NTCDL program budget begins in FY18, and supports the fielding of NTCDL Increment 1 on surface platforms to include CG, DDG, LCS, CVN, LHA, LHD, LCC. In FY16, LINK-16 funding procures and installs Link-16 antenna replacements for obsolete shipboard units.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment				P-1 Line Item Number / Title: 2950 / Network Tactical Common Data Link (CDL)				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Network Tactical Common Data Link (CDL)	P-40a, P-5a		- / 0.000	- / -	- / -	- / 0.290	- / -	- / 0.290
Total Gross/Weapon System Cost			- / 0.000	- / -	- / -	- / 0.290	- / -	- / 0.290
*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 add due to rounding.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10						P-1 Line Item Number / Title: 2950 / Network Tactical Common Data Link (CDL)									Aggregated Items Title: Network Tactical Common Data Link (CDL)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) Network Tactical Common Data Link (CDL)																				
1) LINK-16 Antennas ^(†)	A		-	-	-	-	-	-	-	-	-	145,000.00	2	0.290	-	-	-	145,000.00	2	0.290
Subtotal: 1) Network Tactical Common Data Link (CDL)			-	-	0.000	-	-	-	-	-	-	-	-	0.290	-	-	-	-	-	0.290
Total			-	-	0.000	-	-	-	-	-	-	-	-	0.290	-	-	-	-	-	0.290

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2950 / Network Tactical Common Data Link (CDL)					Aggregated Items: Network Tactical Common Data Link (CDL)						
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) Network Tactical Common Data Link (CDL)															
1) LINK-16 Antennas			2016	Naval Surface Warfare Center Dahlgren / Dahlgren, Va		WR	Dahlgren		May 2016	Feb 2017	2	145,000.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment							P-1 Line Item Number / Title: 2960 / Integ Combat System Test Facility					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	16.880	8.143	4.016	14.419	-	14.419	8.777	8.972	9.186	9.379	-	79.772
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	16.880	8.143	4.016	14.419	-	14.419	8.777	8.972	9.186	9.379	-	79.772
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	16.880	8.143	4.016	14.419	-	14.419	8.777	8.972	9.186	9.379	-	79.772
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.600	0.351	0.498	-	0.498	0.525	0.573	0.582	-	-	3.129
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This program supports various Navy Land Based Test Sites (LBTS) required to support integration and interoperability testing. Sites include, but are not limited to: Naval Surface Warfare Center (NSWC) Dahlgren, Surface Combat System Center (SCSC) Wallops Island, and NSWC Dam Neck. The United States Navy has a requirement to fully test and certify computer programs for maturity, Interoperability and Integration (I&I) prior to delivery to the Fleet. Commander, U.S. Fleet Forces Command (CFFC) provided specific direction to develop a unified modernization process and certify all combat system baselines for integration and interoperability as an integral step in the CNO Optimized Fleet Response Plan (O-FRP). Various Navy facilities, serving as LBTS, conduct the required testing in support of CVN, DDG, CG, LHD, LHA, LPD17 and LSD class ships. These sites also comprise the Navy's Distributed Integration & Interoperability Assessment Capability (DIIAC) (supported through the use of JMETC network) alliance, which performs Interoperability Assessment and Systems Engineering Events (SEEs) for deploying Strike Groups. These facilities also provide combat system in-service support to respond to emergent fleet problems. This capability tests and certifies new combat system baseline in a lab based environment, which has significantly reduced the cost of corrective action and shifted the burden of problem discovery away from the operator at sea. It also provides support to the acquisition community to conduct interoperability (shift to the right) testing earlier in the acquisition cycle. As existing systems experience parts obsolescence, combat systems are continually updated through planned technical refresh. As these new Commercial Off the Shelf (COTS) systems are introduced, LBTS must maintain test beds in order to accurately replicate Command, Control, Communications, Computer, Combat Systems, and Intelligence (C5I) configurations that are destined for the fleet. In addition, new combat systems architectures are under development for new ship classes such as LCS, CVN-78, DDG-1000, as well as new Open Architecture (OA) variants of legacy suites. Procurement of production representative systems of these OA combat systems being delivered to operational fleet units is critical to ensure that testing and subsequent certification of both current and newly installed combat systems is in accordance with NAVSEAINST 9410.2 Naval Warfare Systems Certification Policy (NWSCP) and the O-FRP Program. The basic procurement outlined herein is directed at expanding various facilities capability to support Interoperability Integration and Stressful Endurance testing. Procurement requirements are directly tied to the interoperability testing schedule and establish independence between test beds allowing for parallel certification efforts. Procurements are required to build the necessary test beds and for laboratory support equipment. This budget procures lab support equipment that various facilities are able to support the new tactical subsystems that use COTS equipment.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment		P-1 Line Item Number / Title: 2960 / Integ Combat System Test Facility
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
In addition, the basic program provides for equipment/upgrades for the Navy's Distributed Integration & Interoperability Assessment Capability (DIIAC) needed to conduct interoperability assessment testing. The DIIAC consists of 14 land based sites networked to certify computer programs prior to their delivery to the fleet and provides support to the acquisition community to conduct interoperability and integration (shift to the right) testing earlier in the acquisition cycle. Interoperability Assessment and Stressful Endurance testing is required for all deploying strike groups per the Joint Fleet Instruction. [P40A / M8200 - Support Equipment]: M8200 - SUPPORT EQUIPMENT Procures hardware necessary to support integration and interoperability testing. Equipment includes simulation hardware, test tools and laboratory equipment. [P40A / M8300 - CS Simulation]: M8300 - COMBAT SYSTEM (CS) SIMULATION Procures software and support for the modification of existing simulation software required for conducting integration, interoperability, and stressful endurance testing. [P40A / M8400 - SESEF Electronic Equipment]: The Shipboard Electronic Systems Evaluation Facilities (SESEF) are Navy owned and operated test sites. The SESEF Program mission is to provide electromagnetic system tests and evaluations to afloat and shore commands for new and/or upgraded systems, to validate system performance following new construction and overhaul/availability, and to provide real-time assessment of material readiness in an operational environment. Also provided are: new system development and integration, system and equipment component procurement and S/W upgrades for test systems for Tactical Control and Navigation (TACAN), Automated Information Management System (AIMS), MK XII Identification Friend or Foe (IFF), LINK 4A/11/16, OUTBOARD/COMBAT Direction Finder (DF)/Radio Direction Finder (RDF), search and fire control radars, and communication systems including secure voice. SESEFs have been used effectively to conduct TACAN certifications, support AN/SLQ-32 Electronic Warfare (EW) Planned Maintenance System (PMS) and to detect and isolate shipboard system deficiencies leading to maintenance action to increase ship material readiness at the completion of construction, delivery availabilities, during routine ship operations, and prior to deployment. [P40A / M8500 - Interoperability Assessment Equipment]: M8500 - INTEROPERABILITY ASSESSMENT EQUIPMENT KNOWN AS DISTRIBUTED INTEGRATION & INTEROPERABILITY ASSESSMENT CAPABILITY (DIIAC) Procures upgrades to support the 14 sites that comprise the Navys DIIAC sites. Procures hardware that provides the DIIAC Operations Center (DOC) the ability to support monitoring and execution of events providing data collection and distribution. Funds are also allocated for site upgrades to meet current standards and allow scalability for DIIAC requirements. In addition, to enable the DIIAC to maintain efficiency and product improvement to interface with other Joint communities using Joint Mission Environment Test Community (JMETC) network. [P40A / M86IN - Non-FMP Installation]: M86IN - EQUIPMENT INSTALLATION (NON FMP) Procures engineering and installation support for the above OPN budget. Support includes performing test bed staging, installation, connection, switching, repair and removal services of upgraded/tech refresh tactical, simulation and support systems in direct support of NAVSEA requirements. Provides engineering services for rapid reconfiguration to new/upgraded installations to meet requirements.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment					P-1 Line Item Number / Title: 2960 / Integ Combat System Test Facility			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
ICSTF Program	P-40a		- / 16.880	- / 8.143	- / 4.016	- / 14.419	- / -	- / 14.419
Total Gross/Weapon System Cost			- / 16.880	- / 8.143	- / 4.016	- / 14.419	- / -	- / 14.419
*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 add due to rounding.								

Justification:
 Increase from FY15 funding to FY16 funding for SESEF Electronic Equipment is due to upgrades at 6 existing sites and new installation of an 8th site in the PACFLT AOR to meet emergent requirements.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10								P-1 Line Item Number / Title: 2960 / Integ Combat System Test Facility							Aggregated Items Title: ICSTF Program				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) M8200 - Support Equipment																				
1.1) Support Equipment	A		-	-	2.468	-	-	0.155	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) M8200 - Support Equipment			-	-	2.468	-	-	0.155	-	-	-	-	-	-	-	-	-	-	-	
2) M8300 - CS Simulation																				
2.1) CS Simulation	A		-	-	1.295	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) M8300 - CS Simulation			-	-	1.295	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	
3) M8400 - SESEF Electronic Equipment																				
3.1) SESEF Electronic Equipment ⁽¹⁾	A		-	-	8.361	-	-	4.601	-	-	0.833	-	-	10.806	-	-	-	-	10.806	
Subtotal: 3) M8400 - SESEF Electronic Equipment			-	-	8.361	-	-	4.601	-	-	0.833	-	-	10.806	-	-	-	-	10.806	
4) M8500 - Interoperability Assessment Equipment																				
4.1) Interoperability Assessment Equipment	A		-	-	2.222	-	-	2.732	-	-	3.183	-	-	3.613	-	-	-	-	3.613	
Subtotal: 4) M8500 - Interoperability Assessment Equipment			-	-	2.222	-	-	2.732	-	-	3.183	-	-	3.613	-	-	-	-	3.613	
5) M86IN - Non-FMP Installation																				
5.1) M86IN - Non-FMP Installation	A		-	-	2.534	-	-	0.555	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 5) M86IN - Non-FMP Installation			-	-	2.534	-	-	0.555	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	16.880	-	-	8.143	-	-	4.016	-	-	14.419	-	-	-	-	14.419	

Footnotes:

⁽¹⁾ FY15 \$5M increase for SESEF Site Enhancement to upgrade capabilities at the existing 6 SESEF sites. Additional \$5.4M increase is to install an 8th site in PACFLT AOR to meet emergent requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment						P-1 Line Item Number / Title: 2970 / EMI Control Instrumentation						
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	123.415	4.664	4.113	4.175	-	4.175	4.103	4.160	5.326	5.512	-	155.468
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	123.415	4.664	4.113	4.175	-	4.175	4.103	4.160	5.326	5.512	-	155.468
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	123.415	4.664	4.113	4.175	-	4.175	4.103	4.160	5.326	5.512	-	155.468
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Electromagnetic Interference (EMI) Control Instrumentation Program is fully aligned with the CNO's Sailing Directions. This program supports all three of CNO's main tenets (Warfighting First, Operate Forward and Be Ready). The EMI Control Instrumentation Program is supported by OPNAV N2N6, OPNAV N95, OPNAV N96, OPNAV N97 and OPNAV N98. The EMI Control Instrumentation Program provides Cradle to Grave Systems Engineering for Mission Assurance by implementing Electromagnetic Compatibility (EMC) hardware solutions, Spectrum Management (SM) software solutions, and by procuring specialized test equipment used in the characterization/quantification of EMI problems aboard US Navy platforms. This ensures equipment, systems, and platforms meet their Operational Mission Requirements and goals within their intended operational Electromagnetic (EM) environment. MA004 - EMI (HARDWARE) FIXES: Procurement and installation of Electromagnetic Interference (EMI) Hardware Solutions (i.e. Fixes) will achieve Electromagnetic Compatibility (EMC) among and between shipboard electronic/electric systems and/or equipment. This will be accomplished by determining the optimal EMI fix hardware, evaluating the effectiveness of the EMI solution, then procuring and installing the required hardware with full integrated logistic support (ILS) as part of the system hardware (ECP, OA, FC, etc). The fixes may include various types of radio frequency (RF) filters, limiters, blankers, radar absorbing material (RAM) and shielding methods. MA004 - EMI (Hardware) Fixes is supported by OPNAV N95, OPNAV N96, OPNAV N97 and OPNAV N98. MA104 - EMI (SOFTWARE) FIXES: Procurement and installation of EMI Software Fixes for platform/strike group/Area of Operation. These specific spectrum procedures (software application capabilities) and frequency management techniques (software modules) will be used to eliminate and reduce EMI when hardware solutions are unacceptable. Funds will also be used to provide engineering support to the enhancement of spectrum software applications through the procurement of models and other capabilities, including ILS for software tools/utilities/applications that correct/mitigate operational EMI. MA104 - EMI (Software) Fixes are supported by OPNAV N95, OPNAV N96, OPNAV N97 and OPNAV N98. MA204 - EMI CONTROL INSTRUMENTATION: EMI Control Instrumentation will procure specialized test equipment used in the characterization and quantification of EMI problems aboard US Navy platforms. In addition Instrumentation will be procured for use in identifying the sources of EMI and determining the extent of EMI so that effective corrective measures can be applied. The instrumentation procured will include automated and special EMI test equipment (e.g., for spectrum analysis, mapping field intensities, etc.). EMI Control Instrumentation can include both hardware and software products that will enhance or streamline data collection efforts, including the ability to provide remote access capability. MA204 - EMI CONTROL INSTRUMENTATION are supported by OPNAV N2N6. MA304- REAL TIME SPECTRUM OPERATIONS (RTSO): RTSO provides command and control (C2) of the electromagnetic spectrum, a warfighter spectrum Common Operational Picture (COP), and embeds spectrum agility into shipboard systems allowing dynamic use and re-use of their spectrum terrain in real-time. Current spectrum management applications are static and ineffective in support of the dynamic changes in warfighter spectrum demands. RTSO is a key enabler of Information Dominance, Assured C2 (AC2), and the CNO's Electromagnetic Maneuver Warfare (EMW) operational concepts. When fully implemented RTSO will reduce vulnerability to detection or jamming, and ensure warfighter communication paths are always available, translating into unfettered use of the Electromagnetic (EM) terrain and												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment		P-1 Line Item Number / Title: 2970 / EMI Control Instrumentation
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
freedom to maneuver. RTSO is an OPNAV N2N6 requirement and is further supported by CNO Guidance to support Operationalization of Spectrum. Across the FYDP, funds will be used to provide engineering support to the enhancement of RTSO spectrum software applications through the procurement of models and other capabilities, including ILS for software tools/utilities/applications that resolve interoperability issues and enhance fleet operational capabilities. MA304- REAL TIME SPECTRUM OPERATIONS PROGRAM (RTSO) is supported by OPNAV N2N6.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment				P-1 Line Item Number / Title: 2970 / EMI Control Instrumentation				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
EMI Control Instrumentation	P-40a		- / 123.415	- / 4.664	- / 4.113	- / 4.175	- / -	- / 4.175
Total Gross/Weapon System Cost			- / 123.415	- / 4.664	- / 4.113	- / 4.175	- / -	- / 4.175
*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 add due to rounding.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10									P-1 Line Item Number / Title: 2970 / EMI Control Instrumentation						Aggregated Items Title: EMI Control Instrumentation				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) MA004 EMI (HARDWARE) FIXES																				
1.1) MA004 EMI (HARDWARE) Fixes - N2N6	A		-	-	65.730	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.2) MA004 EMI (HARDWARE) FIXES - N96	A		-	-	2.475	-	-	0.823	-	-	0.804	-	-	0.829	-	-	-	-	0.829	
1.3) MA004 EMI (HARDWARE) FIXES - N95	A		-	-	1.702	-	-	0.573	-	-	0.573	-	-	0.577	-	-	-	-	0.577	
1.4) MA004 EMI (HARDWARE) FIXES - N97	A		-	-	1.773	-	-	0.595	-	-	0.592	-	-	0.596	-	-	-	-	0.596	
1.5) MA004 EMI (HARDWARE) FIXES N98	A		-	-	2.646	-	-	0.886	-	-	0.522	-	-	0.534	-	-	-	-	0.534	
Subtotal: 1) MA004 EMI (HARDWARE) FIXES			-	-	74.326	-	-	2.877	-	-	2.491	-	-	2.536	-	-	-	-	2.536	
2) MA104 EMI (SOFTWARE) FIXES																				
2.1) MA104 EMI (SOFTWARE) FIXES - N95	A		-	-	3.118	-	-	0.246	-	-	0.245	-	-	0.248	-	-	-	-	0.248	
2.2) MA104 EMI (SOFTWARE) FIXES - N96	A		-	-	4.668	-	-	0.352	-	-	0.344	-	-	0.355	-	-	-	-	0.355	
2.3) MA104 EMI (SOFTWARE) FIXES - N97	A		-	-	3.346	-	-	0.255	-	-	0.254	-	-	0.255	-	-	-	-	0.255	
2.4) MA104 EMI (SOFTWARE) FIXES - N98	A		-	-	5.012	-	-	0.379	-	-	0.224	-	-	0.229	-	-	-	-	0.229	
2.5) MA104 EMI (SOFTWARE) FIXES - N2N6	A		-	-	32.945	-	-	0.555	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) MA104 EMI (SOFTWARE) FIXES			-	-	49.089	-	-	1.787	-	-	1.067	-	-	1.087	-	-	-	-	1.087	
3) MA204 EMI CONTROL INSTRUMENTATION																				
3.1) MA204 EMI CONTROL INSTRUMENTATION - N2N6	A		-	-	-	-	-	-	-	-	0.555	-	-	0.552	-	-	-	-	0.552	
Subtotal: 3) MA204 EMI CONTROL INSTRUMENTATION			-	-	0.000	-	-	-	-	-	0.555	-	-	0.552	-	-	-	-	0.552	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10						P-1 Line Item Number / Title: 2970 / EMI Control Instrumentation									Aggregated Items Title: EMI Control Instrumentation				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Total			-	-	123.415	-	-	4.664	-	-	4.113	-	-	4.175	-	-	-	-	-	4.175

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment							P-1 Line Item Number / Title: 2980 / Items less than \$5 Million					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	300.302	64.642	64.235	44.176	-	44.176	87.440	93.413	76.143	77.740	377.113	1,185.204
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	300.302	64.642	64.235	44.176	-	44.176	87.440	93.413	76.143	77.740	377.113	1,185.204
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	300.302	64.642	64.235	44.176	-	44.176	87.440	93.413	76.143	77.740	377.113	1,185.204
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	1.477	1.200	1.348	-	1.348	2.811	3.318	0.995	0.395	Continuing	Continuing
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The FY 2016 funding request was reduced by \$16.8 million to account for the availability of prior year execution balances.												
[P40A / DC004 CALIBRATION STANDARDS]: These funds procure calibration equipment for intermediate and organizational maintenance levels. Test And Monitoring Systems (TAMS), which include test equipment and gauges, must be calibrated to ensure the equipment is operational, accurate and precise. Funds are used to procure Calibration Standards. Calibration Standards are equipments which ensure the accuracy of test equipment used to install, align, and maintain all navy weapons systems shore and afloat. Intermediate Maintenance Activities (IMA) mechanical standards programs provide various new and replacement calibration equipment for instrument repair and calibration shops aboard tenders and shore based intermediate maintenance activities. The shipboard gauge calibration program provides the organization maintenance level aboard ship with portable calibration equipment to provide calibration support in only specific areas of measurement. Integrated Condition Assessment System (ICAS) is a Non-Developmental Item (NDI) (Commercial-Off-The-Shelf (COTS) equipment) computer-based system that provides real-time, on-line machinery condition monitoring and failure detection, diagnosis, trending for failure prognosis and expert troubleshooting capability. ICAS is linked through data networks to other critical ship systems, such as machinery control, damage control and bridge systems to receive necessary sensory information.												
[P40A / DC019 RADAR RESTORATION AN/SPS-67 ANTENNA]: Funding in this line establishes an antenna manufacturing capability at Naval Surface Warfare Center (NSWC) Crane needed to provide additional rotatable pool antennas and associated engineering changes for the AN/SPS-67(V)3 to support the restoration of installed fleet antennas. The current number of available antennas is insufficient to support the fleet population. This has led to antennas operating in the field beyond their periodicity, resulting in decreased detection and tracking capability.												
[P40A / DC020 DUAL BAND RADAR (DBR)]: Funding is required to establish the In-Service Engineering Agent (ISEA), Original Equipment Manufacturer (OEM) production services and support for Configuration Management. Funding also implements the DBR Life Cycle Sustainment Plan (LCSP) and infrastructure, Diminishing Manufacturing Sources and Material Shortages (DMSMS) Plan, associated hardware and software obsolescence mod kits, procurement of Engineering Change Proposals (ECPs), associated logistics products and on-board allowance requirements to enable system operation. Production support is also required to assist with DBR Combat System Integration and Technical Documentation.												
[P40A / DC021 AN/SPS-67(V)5 MARITIME RADAR PROCESSOR (MRP)]: The Maritime Radar Processor (MRP) was developed to improve the detection of small boats/targets by USN ships. Funding in this line will be used to integrate and field small boat detection software improvements to AN/SPS-67(V)5 Surface Search Radar.												
[P40A / Red Falcon (OCO)]: FY15 OCO funds required for the procurement of the Red Falcon V(2) system upgrade kits and accompanying antennas to exploit additional Signals of Interest (SOI).												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment		P-1 Line Item Number / Title: 2980 / Items less than \$5 Million
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
[P3A / DC001 - SPS-73 RADAR]: The AN/SPS-73(V) Radar provides primary navigation and surface search radar functionality on all U.S. Navy ships (with the exception of FFG/MHC class ships). All radars were procured with prior year Congressional Plus Up funding and are awaiting installation. The AN/SPS-73(V)12 is the Program of Record (POR) replacement for the legacy, unsupported, and non-POR navigation/ surface search radars (LN-66, AN/SPS-55/64, and Bridgemaster (BME)). Funding in this line completes technology refresh, providing design for an Engineering Change Proposal (ECP) (Field Change (F/C) 13 to the AN/SPS-73(V)12) that addresses Commercial-Off-The-Shelf (COTS) obsolescence and incorporates expanded requirements, as well as recommended fleet enhancements to ensure safety of operations. Funding is provided for procurement for the replacement (with AN/SPS-73(V)12 F/C 13) of the LPD 17 non-POR AN/SPS-73(V)13 radars which is procured as Contractor Furnished Equipment for the LPD 17 class. Funding is also required to procure and install a Next Generation Navigation Replacement Radar. The Next Generation Navigation Replacement Radar will replace the current POR AN/SPS-73(V)12 due to COTS obsolescence. FY15 and FY16 funding will be utilized for non-recurring engineering cost for the Next Generation Navigation Replacement Radar. [P3A - 2 / DC009 - AN/SPS-48G RADAR OBSOLESCENCE AND AVAILABILITY RECOVERY (ROAR)]: The AN/SPS-48G 3-D Air Surveillance Radar is a follow-on to the existing AN/SPS-48E onboard Aircraft Carriers and large-deck Amphibious ships. AN/SPS-48G was initiated in response to Fleet complaints regarding AN/SPS-48E reliability and supportability. Upgrade of the AN/SPS-48E with the AN/SPS-48G remains a high Fleet priority as it will reduce Operation and Support (O&S) costs and improve Operational Availability. Both factors are cited by the Fleet as unsatisfactory for the AN/SPS-48E. The goal is to replace the AN/SPS-48E as rapidly as possible so the Fleet can realize these cost savings. Current efforts include the manufacturing of the AN/SPS-48G upgrade kits with associated production support as well as modifications to the AN/SPS-48G brought about by initial Fleet introduction and Fleet operations. Production lead time is 24 months for the initial unit with subsequent units delivered at two month intervals after initial delivery. Equipment delivery for installation is required thirty days prior to FMP availability start in accordance with Navy Modernization Process Management. Engineering Change Order funding is included to address Fleet recommended modifications/ requirements and Information Assurance, Obsolescence, and Diminishing Manufacturing Sources (DMS) issues. FY13 and beyond Engineering Change Proposal funding is to initiate incorporation of High Diver Detection and Tracking functionality. This capability was designed and incorporated into the AN/SPS-48E after design of the AN/SPS-48G had been initiated. This change now needs to be translated into the different hardware and software architectures of the AN/SPS-48G. [P3A - 3 / DC010 - AN/SPS-49 IN-SERVICE RADARS]: This funding continues and executes efforts funded under the Radar Improvement Program. This program addresses already realized obsolescence, cost, reliability and maintainability issues raised by the fleet for the AN/SPS-49(V) air search radar, initially introduced in the Navy in the 1970's. These funds support the completion of the AN/SPS-49 Solid State Modulator (SSM) program and provide funding to begin addressing serious obsolescence issues throughout the radar including already obsolete Circuit Card Assemblies (CCAs) and other electrical components, and ongoing reliability problems in the transmitter. [P3A - 4 / DC012 - AN/SPS-74(V) PERISCOPE DETECTION RADAR (PDR)]: AN/SPS-74(V) PERISCOPE DETECTION RADAR (PDR): The CVN Periscope Detection Radar (PDR), AN/SPS-74(V) is a radar that provides automatic detection and discrimination of submarine periscopes using advanced algorithms enabling discrimination of periscopes from surface contacts, buoys, small boats, floating mines, etc. Four Advanced Development Models (ADMs) have been installed and are operating on CVN class ships. The AN/SPS-74 program was cancelled in FY12. FY14 and out funds will be used for Engineering Change Proposals (ECPs) to address obsolescence issues, sustainment, and continued operation of installed AN/SPS-74 ADMs as well as eventual de-installation. [P3A - 5 / DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP)]: Provides real-time valunumeric wind profiles, convective weather detection/display, and radar refractivity assessments from AN/SPY-1 radar returns. TEP will be an adjunct processor and display, tapping radar data from weather and refractivity data, with users able to access information through Secret Internet Protocol Router (SIPR). TEP installations began in FY13, are aligned with AEGIS Modernization in FY14 and will continue beyond the FYDP. [P3A - 6 / DC018 - AN/SPY-1 RM&A IMPROVEMENTS]: DC018 AN/SPY-1 RM&A IMPROVEMENTS - These Reliability, Maintainability, and Availability (RM&A) improvements are intended to reduce cascading failures, mitigate obsolescence issues, and improve reliability in support of Anti-Air Warfare (AAW) and Ballistic Missile Defense (BMD) missions while still providing AN/SPY-1 Radar Total Ownership Cost (TOC) reductions. The improvements include, but are not limited to, installation for Sidewall Capacitor Circuit Protection and 10kW Traveling Wave Tube (TWT) Monitoring Circuits Ordnance Alterations (ORDALTS) starting in FY13 and Water Cooled Vane (WCV) to Double Duty (DD) conversion kits starting in FY16. AN/SPY-1 Pack Up Kits (PUKs) consist of long lead and high failure parts procured in FY14, then provided to and managed by Regional Maintenance Centers (RMCs). Solid State Switch Assemblies (SSSA) will be procured beginning in FY15 through replacement of legacy switch tube modulator deck ORDALT. FY18 includes funding for shock qualification testing of the SSSA and SPY-1D(V) Final Power Amplifier (FPA) cabinet required by MILSPEC 901-D.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment				P-1 Line Item Number / Title: 2980 / Items less than \$5 Million				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Items less than \$5 Million	P-40a, P-5a		- / 40.666	- / 16.235	- / 16.664	- / 15.778	- / -	- / 15.778
1 / DC001 - SPS-73 RADAR ()	P-3a		- / 46.280	- / -	- / 3.651	- / 4.705	- / -	- / 4.705
2 / DC009 - AN/SPS-48G RADAR OBSOLESCENCE AND AVAILABILITY RECOVERY (ROAR) ()	P-3a		- / 188.566	- / 37.426	- / 29.179	- / 5.197	- / -	- / 5.197
3 / DC010 - AN/SPS-49 IN-SERVICE RADARS ()	P-3a		- / 18.580	- / -	- / -	- / -	- / -	- / -
5 / DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP) ()	P-3a		- / 3.810	- / 1.389	- / 0.214	- / 0.995	- / -	- / 0.995
6 / DC018 - AN/SPY-1 RM&A IMPROVEMENTS ()	P-3a		- / 2.400	- / 9.592	- / 14.527	- / 17.501	- / -	- / 17.501
Total Gross/Weapon System Cost			- / 300.302	- / 64.642	- / 64.235	- / 44.176	- / -	- / 44.176
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
Items less than \$5 Million	P-40a, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / DC001 - SPS-73 RADAR ()	P-3a		- / 2.004	- / 1.993	- / 5.892	- / 6.014	- / 102.305	- / 172.844
2 / DC009 - AN/SPS-48G RADAR OBSOLESCENCE AND AVAILABILITY RECOVERY (ROAR) ()	P-3a		- / 37.324	- / 21.861	- / 19.110	- / 19.531	- / 50.745	- / 408.939
3 / DC010 - AN/SPS-49 IN-SERVICE RADARS ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 18.580
5 / DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP) ()	P-3a		- / 1.373	- / 1.484	- / 1.477	- / 1.506	- / 13.477	- / 25.725
6 / DC018 - AN/SPY-1 RM&A IMPROVEMENTS ()	P-3a		- / 21.973	- / 47.510	- / 29.053	- / 29.673	- / 186.842	- / 359.071
Total Gross/Weapon System Cost			- / 87.440	- / 93.413	- / 76.143	- / 77.740	- / 377.113	- / 1,185.204
*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 add due to rounding.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10						P-1 Line Item Number / Title: 2980 / Items less than \$5 Million									Aggregated Items Title: Items less than \$5 Million					
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) DC001 SPS-73 RADAR																				
1.1) TECH REFRESH (1)(f)	A		229,754.72	106	24.354	254,217.39	23	5.847	-	-	2.033	-	-	2.101	-	-	-	-	-	2.101
Subtotal: 1) DC001 SPS-73 RADAR			-	-	24.354	-	-	5.847	-	-	2.033	-	-	2.101	-	-	-	-	-	2.101
2) DC004 CALIBRATION STANDARDS																				
2.1) CALIBRATION STANDARDS ^(f)	A		68,797.81	183	12.590	23,744.57	184	4.369	14,503.73	268	3.887	23,493.42	152	3.571	-	-	-	23,493.42	152	3.571
Subtotal: 2) DC004 CALIBRATION STANDARDS			-	-	12.590	-	-	4.369	-	-	3.887	-	-	3.571	-	-	-	-	-	3.571
3) DC019 RADAR RESTORATION AN/SPS-67 ANTENNA																				
3.1) HARDWARE ^(f)	A		-	-	-	495,000.00	2	0.990	491,500.00	2	0.983	492,000.00	1	0.492	-	-	-	492,000.00	1	0.492
3.2) OTHER	A		-	-	1.500	-	-	0.108	-	-	0.108	-	-	-	-	-	-	-	-	-
Subtotal: 3) DC019 RADAR RESTORATION AN/SPS-67 ANTENNA			-	-	1.500	-	-	1.098	-	-	1.091	-	-	0.492	-	-	-	-	-	0.492
4) DC020 DUAL BAND RADAR (DBR)																				
4.1) DBR PRODUCTION SUPPORT	A		-	-	-	-	-	2.853	-	-	0.724	-	-	3.663	-	-	-	-	-	3.663
4.2) DBR ENGINEERING CHANGE PROPOSALS (ECPS) ⁽²⁾	A		-	-	-	-	-	0.410	-	-	2.363	-	-	5.259	-	-	-	-	-	5.259
Subtotal: 4) DC020 DUAL BAND RADAR (DBR)			-	-	0.000	-	-	3.263	-	-	3.087	-	-	8.922	-	-	-	-	-	8.922
5) DC021 AN/SPS-67(V)5 MARITIME RADAR PROCESSOR (MRP)																				
5.1) AN/SPS-67(V)5 MARITIME RADAR PROCESSOR ⁽³⁾	A		-	-	1.964	-	-	0.958	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 5) DC021 AN/SPS-67(V)5 MARITIME RADAR PROCESSOR (MRP)			-	-	1.964	-	-	0.958	-	-	-	-	-	-	-	-	-	-	-	-
6) DC012 AN/SPS-74(V) PERISCOPE DETECTION RADAR																				
6.1) PRODUCTION SUPPORT	A		-	-	0.258	-	-	0.700	-	-	0.696	-	-	0.692	-	-	-	-	-	0.692
Subtotal: 6) DC012 AN/SPS-74(V) PERISCOPE DETECTION RADAR			-	-	0.258	-	-	0.700	-	-	0.696	-	-	0.692	-	-	-	-	-	0.692

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10								P-1 Line Item Number / Title: 2980 / Items less than \$5 Million							Aggregated Items Title: Items less than \$5 Million				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) Red Falcon (OCO)																				
7.1) Red Falcon (OCO) ⁽⁴⁾	A		-	-	-	-	-	-	-	-	5.870	-	-	-	-	-	-	-	-	-
Subtotal: 7) Red Falcon (OCO)			-	-	0.000	-	-	-	-	-	5.870	-	-	-	-	-	-	-	-	-
Total			-	-	40.666	-	-	16.235	-	-	16.664	-	-	15.778	-	-	-	-	-	15.778

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	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) DC001 SPS-73 RADAR																				
1.1) TECH REFRESH (1)(f)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) DC001 SPS-73 RADAR			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2) DC004 CALIBRATION STANDARDS																				
2.1) CALIBRATION STANDARDS(1)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) DC004 CALIBRATION STANDARDS			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3) DC019 RADAR RESTORATION AN/SPS-67 ANTENNA																				
3.1) HARDWARE(1)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.2) OTHER	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 3) DC019 RADAR RESTORATION AN/SPS-67 ANTENNA			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4) DC020 DUAL BAND RADAR (DBR)																				
4.1) DBR PRODUCTION SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.2) DBR ENGINEERING CHANGE PROPOSALS (ECPS) (2)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 4) DC020 DUAL BAND RADAR (DBR)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5) DC021 AN/SPS-67(V)5 MARITIME RADAR PROCESSOR (MRP)																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10								P-1 Line Item Number / Title: 2980 / Items less than \$5 Million							Aggregated Items Title: Items less than \$5 Million				

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.1) AN/SPS-67(V)5 MARITIME RADAR PROCESSOR ⁽³⁾	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 5) DC021 AN/SPS-67(V)5 MARITIME RADAR PROCESSOR (MRP)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6) DC012 AN/SPS-74(V) PERISCOPE DETECTION RADAR																				
6.1) PRODUCTION SUPPORT	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 6) DC012 AN/SPS-74(V) PERISCOPE DETECTION RADAR			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7) Red Falcon (OCO)																				
7.1) Red Falcon (OCO) ⁽⁴⁾	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 7) Red Falcon (OCO)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Footnotes:

(1) The program completed procurement of AN/SPS-73 Tech Refresh kits in FY14 for all remaining previously procured AN/SPS-73 Radars. FY15 through FY17 funding will be utilized to support and complete AN/SPS-73 Tech Refresh installations, based on a 12 month production lead time and shifts in CNO availabilities for the remaining ships.

(2) ECP funding for DBR will commence in FY14 to fix issues identified during integration testing. Production support funding is needed for parts obsolescence and life cycle products and sustainment of the system. Changes identified during testing will need to be implemented in the production systems, post CVN 78 and DDG 1000 ship delivery in FY14 and FY15. In order to implement necessary engineering changes and support production of those changes in FY14/15, funding is required beginning in FY14.

(3) AN/SPS-67 MRP systems are no longer being procured due to performance shortfalls identified during testing.

(4) FY15 OCO funds required for the procurement of the Red Falcon V(2) system upgrade kits and accompanying antennas to exploit additional Signals of Interest (SOI).

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2980 / Items less than \$5 Million				Aggregated Items: Items less than \$5 Million				
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) DC001 SPS-73 RADAR												
1.1) TECH REFRESH ⁽¹⁾		2014	Raytheon / Portsmouth, RI	SS / FFP	NSWC CRANE	Oct 2014	Oct 2015	23	254,217.39	Y		Jan 2014
2) DC004 CALIBRATION STANDARDS												
2.1) CALIBRATION STANDARDS		2014	VARIOUS / VARIOUS	Various	WASHINGTON NAVY YARD	Nov 2013	Mar 2014	184	23,744.57	Y		
2.1) CALIBRATION STANDARDS		2015	VARIOUS / VARIOUS	Various	WASHINGTON NAVY YARD	Nov 2014	Mar 2015	268	14,503.73	Y		
2.1) CALIBRATION STANDARDS		2016	VARIOUS / VARIOUS	Various	WASHINGTON NAVY YARD	Nov 2015	Mar 2016	152	23,493.42	Y		
3) DC019 RADAR RESTORATION AN/SPS-67 ANTENNA												
3.1) HARDWARE		2014	NSWC CRANE / CRANE, IN	WR	NSWC CRANE	Apr 2014	Apr 2016	2	495,000.00	Y		
3.1) HARDWARE		2015	NSWC CRANE / CRANE, IN	WR	NSWC CRANE	Apr 2015	Apr 2017	2	491,500.00	Y		
3.1) HARDWARE		2016	NSWC CRANE / CRANE, IN	WR	NSWC CRANE	Apr 2016	Apr 2018	1	492,000.00	Y		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2980 / Items less than \$5 Million					Modification Number / Title: 1 / DC001 - SPS-73 RADAR			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	46.280	-	3.651	4.705	-	4.705	2.004	1.993	5.892	6.014	102.305	172.844
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	46.280	-	3.651	4.705	-	4.705	2.004	1.993	5.892	6.014	102.305	172.844
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	46.280	-	3.651	4.705	-	4.705	2.004	1.993	5.892	6.014	102.305	172.844
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The AN/SPS-73(V) Radar provides primary navigation and surface search radar functionality on all U.S. Navy ships (with the exception of FFG/MHC class ships). All radars were procured with prior year Congressional Plus Up funding and are awaiting installation. The AN/SPS-73(V)12 is the Program of Record (POR) replacement for the legacy, unsupported, and non-POR navigation/surface search radars (LN-66, AN/SPS-55/64, and Bridgemaster (BME)). Funding in this line completes technology refresh, providing design for an Engineering Change Proposal (ECP) (Field Change (F/C) 13 to the AN/SPS-73(V)12) that addresses Commercial-Off-The-Shelf (COTS) obsolescence and incorporates expanded requirements, as well as recommended fleet enhancements to ensure safety of operations. Funding is provided for procurement for the replacement (with AN/SPS-73(V)12 F/C 13) of the LPD 17 non-POR AN/SPS-73(V)13 radars which is procured as Contractor Furnished Equipment for the LPD 17 class. Funding is also required to procure and install a Next Generation Navigation Replacement Radar. The Next Generation Navigation Replacement Radar will replace the current POR AN/SPS-73(V)12 due to COTS obsolescence. FY15 and FY16 funding will be utilized for non-recurring engineering cost for the Next Generation Navigation Replacement Radar.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2980 / Items less than \$5 Million				Modification Number / Title: 1 / DC001 - SPS-73 RADAR					
Models of Systems Affected: AN/SPS-73				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: DC001 - SPS-73 RADAR													
B Kits													
Recurring													
1.1.1) SPS-73 SYSTEMS - NonOrganic ⁽⁵⁾	79 / 18.452	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	79 / 18.452	
1.1.2) NEXT GENERATION NON RECURRING ENGINEERING - Organic	- / -	- / -	- / 2.749	- / 3.345	- / -	- / 3.345	- / -	- / -	- / -	- / -	- / -	- / 6.094	
1.1.3) NEXT GENERATION NAVIGATION RADAR - NonOrganic	- / -	- / -	- / -	2 / 0.200	- / -	2 / 0.200	2 / 0.204	3 / 0.312	10 / 1.060	10 / 1.080	153 / 16.830	180 / 19.686	
Subtotal: Recurring	- / 18.452	- / -	- / 2.749	- / 3.545	- / -	- / 3.545	- / 0.204	- / 0.312	- / 1.060	- / 1.080	- / 16.830	- / 44.232	
Subtotal: DC001 - SPS-73 RADAR	79 / 18.452	- / -	- / 2.749	2 / 3.545	- / -	2 / 3.545	2 / 0.204	3 / 0.312	10 / 1.060	10 / 1.080	153 / 16.830	259 / 44.232	
Subtotal: Procurement, All Modification Items	- / 18.452	- / -	- / 2.749	- / 3.545	- / -	- / 3.545	- / 0.204	- / 0.312	- / 1.060	- / 1.080	- / 16.830	- / 44.232	
Support (All Modification Items)													
2.1) PRODUCTION SUPPORT	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.200	- / 1.172	- / 3.437	- / 1.412	- / 32.500	- / 39.721	
Subtotal: Support	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.200	- / 1.172	- / 3.437	- / 1.412	- / 32.500	- / 39.721	
Installation													
Modification Item 1 of 1: DC001 - SPS-73 RADAR	- / 27.828	- / -	- / 0.902	- / 1.160	- / -	- / 1.160	- / 0.600	- / 0.509	- / 1.395	- / 3.522	- / 52.975	- / 88.891	
Subtotal: Installation	- / 27.828	- / -	- / 0.902	- / 1.160	- / -	- / 1.160	- / 0.600	- / 0.509	- / 1.395	- / 3.522	- / 52.975	- / 88.891	
Total													
Total Cost (Procurement + Support + Installation)	46.280	-	3.651	4.705	-	4.705	2.004	1.993	5.892	6.014	102.305	172.844	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10										P-1 Line Item Number / Title: 2980 / Items less than \$5 Million										Modification Number / Title: 1 / DC001 - SPS-73 RADAR												
Modification Item 1 of 1: DC001 - SPS-73 RADAR																																
Manufacturer Information																																
Manufacturer Name: AN/SPS-73 Next Generation Navigation Radar - TBD															Manufacturer Location: TBD																	
Administrative Leadtime (in Months): 0															Production Leadtime (in Months): 12																	
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020						
Contract Dates										Mar 2016				Mar 2017				Mar 2018				Mar 2019				Mar 2020						
Delivery Dates										Mar 2017				Mar 2018				Mar 2019				Mar 2020				Mar 2021						
Installation Information																																
Method of Implementation: [none specified]:: Installation Name: SPS-73 SYSTEMS																																
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		75 / 27.828		- / -		2 / 0.902		2 / 0.860		- / 0.000		2 / 0.860		- / -		- / -		- / -		- / -		- / -		- / -		79 / 29.590						
FY 2014		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2015		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
Total		75 / 27.828		- / -		2 / 0.902		2 / 0.860		- / -		2 / 0.860		- / -		- / -		- / -		- / -		- / -		- / -		79 / 29.590						
Installation Schedule																																
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020						
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot	
In	73	-	-	-	-	2	-	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79
Out	73	-	-	-	-	-	1	1	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79	
Method of Implementation: [none specified]:: Installation Name: NEXT GENERATION NAVIGATION RADAR																																
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total								
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)								
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2014		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10		P-1 Line Item Number / Title: 2980 / Items less than \$5 Million			Modification Number / Title: 1 / DC001 - SPS-73 RADAR

Modification Item 1 of 1: DC001 - SPS-73 RADAR

Installation Information

Method of Implementation: [none specified]:: Installation Name: NEXT GENERATION NAVIGATION RADAR

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / 0.300	- / -	- / 0.300	2 / 0.385	- / -	- / -	- / -	- / -	2 / 0.685
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.215	2 / 0.396	- / -	- / -	- / -	2 / 0.611
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.113	3 / 0.441	- / -	- / -	3 / 0.554
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.954	10 / 2.371	- / -	10 / 3.325
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.151	10 / 2.387	10 / 3.538
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	153 / 50.588	153 / 50.588
Total	- / -	- / -	- / -	- / 0.300	- / -	- / 0.300	2 / 0.600	2 / 0.509	3 / 1.395	10 / 3.522	163 / 52.975	180 / 59.301

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	2	1	-	-	4	3	3	163	180
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	2	1	-	-	1	2	170	180

Footnotes:

⁽⁵⁾ FY15 and FY16 funding is required to complete installation of legacy AN/SPS-73(V)12 radar systems, due to changes in CNO availability schedules.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2980 / Items less than \$5 Million	Modification Number / Title: 2 / DC009 - AN/SPS-48G RADAR OBsolescence AND AVAILABILITY RECOVERY (ROAR)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	188.566	37.426	29.179	5.197	-	5.197	37.324	21.861	19.110	19.531	50.745	408.939
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	188.566	37.426	29.179	5.197	-	5.197	37.324	21.861	19.110	19.531	50.745	408.939
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	188.566	37.426	29.179	5.197	-	5.197	37.324	21.861	19.110	19.531	50.745	408.939
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/SPS-48G 3-D Air Surveillance Radar is a follow-on to the existing AN/SPS-48E onboard Aircraft Carriers and large-deck Amphibious ships. AN/SPS-48G was initiated in response to Fleet complaints regarding AN/SPS-48E reliability and supportability. Upgrade of the AN/SPS-48E with the AN/SPS-48G remains a high Fleet priority as it will reduce Operation and Support (O&S) costs and improve Operational Availability. Both factors are cited by the Fleet as unsatisfactory for the AN/SPS-48E. The goal is to replace the AN/SPS-48E as rapidly as possible so the Fleet can realize these cost savings. Current efforts include the manufacturing of the AN/SPS-48G upgrade kits with associated production support as well as modifications to the AN/SPS-48G brought about by initial Fleet introduction and Fleet operations. Production lead time is 24 months for the initial unit with subsequent units delivered at two month intervals after initial delivery. Equipment delivery for installation is required thirty days prior to FMP availability start in accordance with Navy Modernization Process Management. Engineering Change Order funding is included to address Fleet recommended modifications/ requirements and Information Assurance, Obsolescence, and Diminishing Manufacturing Sources (DMS) issues. FY13 and beyond Engineering Change Proposal funding is to initiate incorporation of High Diver Detection and Tracking functionality. This capability was designed and incorporated into the AN/SPS-48E after design of the AN/SPS-48G had been initiated. This change now needs to be translated into the different hardware and software architectures of the AN/SPS-48G.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2980 / Items less than \$5 Million				Modification Number / Title: 2 / DC009 - AN/SPS-48G RADAR OBSOLESCENCE AND AVAILABILITY RECOVERY (ROAR)					
Models of Systems Affected: AN/SPS-48G				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: DC009 - AN/SPS-48G RADAR OBSOLESCENCE AND AVAILABILITY RECOVERY (ROAR)													
B Kits													
Recurring													
1.1.1) AN/SPS-48G HARDWARE - FMP - NonOrganic	12 / 80.452	3 / 21.975	3 / 21.700	- / -	- / -	- / -	3 / 23.326	1 / 12.384	1 / 12.586	1 / 12.838	1 / 13.095	25 / 198.356	
1.1.2) EQUIPMENT NONRECURRING - Organic	- / 11.191	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.191	
1.1.3) ENGINEERING CHANGE PROPOSALS - Organic ⁽⁶⁾	- / 2.700	- / 2.545	- / 1.282	- / 0.760	- / -	- / 0.760	- / 1.743	- / 1.762	- / 1.100	- / 0.501	- / 1.500	- / 13.893	
1.1.4) ENGINEERING CHANGE ORDERS - Organic ⁽⁷⁾	- / 47.000	- / 2.050	- / 1.000	- / 0.785	- / -	- / 0.785	- / 1.645	- / 1.537	- / 1.000	- / 0.663	- / 1.500	- / 57.180	
1.1.5) AN/SPS-48G HARDWARE - NON-FMP - NonOrganic	2 / 12.973	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 18.000	4 / 30.973	
Subtotal: Recurring	- / 154.316	- / 26.570	- / 23.982	- / 1.545	- / -	- / 1.545	- / 26.714	- / 15.683	- / 14.686	- / 14.002	- / 34.095	- / 311.593	
Subtotal: DC009 - AN/SPS-48G RADAR OBSOLESCENCE AND AVAILABILITY RECOVERY (ROAR)	14 / 154.316	3 / 26.570	3 / 23.982	- / 1.545	- / -	- / 1.545	3 / 26.714	1 / 15.683	1 / 14.686	1 / 14.002	3 / 34.095	29 / 311.593	
Subtotal: Procurement, All Modification Items	- / 154.316	- / 26.570	- / 23.982	- / 1.545	- / -	- / 1.545	- / 26.714	- / 15.683	- / 14.686	- / 14.002	- / 34.095	- / 311.593	
Support (All Modification Items)													
2.1) PRODUCTION SUPPORT	- / 16.300	- / 1.870	- / 1.147	- / 0.702	- / -	- / 0.702	- / 1.410	- / 1.303	- / 0.999	- / 0.529	- / 3.000	- / 27.260	
Subtotal: Support	- / 16.300	- / 1.870	- / 1.147	- / 0.702	- / -	- / 0.702	- / 1.410	- / 1.303	- / 0.999	- / 0.529	- / 3.000	- / 27.260	
Installation													
Modification Item 1 of 1: DC009 - AN/SPS-48G RADAR OBSOLESCENCE AND AVAILABILITY RECOVERY (ROAR)	- / 17.950	- / 8.986	- / 4.050	- / 2.950	- / -	- / 2.950	- / 9.200	- / 4.875	- / 3.425	- / 5.000	- / 13.650	- / 70.086	
Subtotal: Installation	- / 17.950	- / 8.986	- / 4.050	- / 2.950	- / -	- / 2.950	- / 9.200	- / 4.875	- / 3.425	- / 5.000	- / 13.650	- / 70.086	
Total													
Total Cost (Procurement + Support + Installation)	188.566	37.426	29.179	5.197	-	5.197	37.324	21.861	19.110	19.531	50.745	408.939	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10		P-1 Line Item Number / Title: 2980 / Items less than \$5 Million			Modification Number / Title: 2 / DC009 - AN/SPS-48G RADAR OBSOLESCENCE AND AVAILABILITY RECOVERY (ROAR)		

Modification Item 1 of 1: DC009 - AN/SPS-48G RADAR OBSOLESCENCE AND AVAILABILITY RECOVERY (ROAR)

Manufacturer Information

Manufacturer Name: ITT/Exelis				Manufacturer Location: VAN NUYS, CA			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 24			

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Feb 2015	Aug 2015		Mar 2017	Mar 2018	Mar 2019	Mar 2020
Delivery Dates	Feb 2017	Aug 2017		Mar 2019	Mar 2020	Mar 2021	Mar 2022

Installation Information

Method of Implementation: [none specified]:: Installation Name: AN/SPS-48G HARDWARE - FMP

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	6 / 15.750	3 / 6.820	1 / 3.000	1 / 1.500	- / 0.000	1 / 1.500	1 / 1.500	- / -	- / -	- / -	- / -	12 / 28.570
FY 2014	- / -	- / -	- / 1.050	- / 1.450	- / -	- / 1.450	3 / 4.500	- / -	- / -	- / -	- / -	3 / 7.000
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	1 / 3.200	2 / 3.950	- / -	- / -	- / -	3 / 7.150
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.925	1 / 3.425	2 / 3.150	- / -	3 / 7.500
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.925	1 / 1.575	1 / 2.500
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.925	1 / 1.575	1 / 2.500
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.550	1 / 2.550
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.550	1 / 2.550
Total	6 / 15.750	3 / 6.820	1 / 4.050	1 / 2.950	- / -	1 / 2.950	5 / 9.200	2 / 4.875	1 / 3.425	2 / 5.000	4 / 8.250	25 / 60.320

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	6	-	-	-	3	-	-	1	-	-	-	-	1	-	1	-	4	-	-	2	-	-	-	1	-	2	-	-	-	4	25
Out	2	1	-	1	2	-	-	-	1	2	-	-	-	1	1	1	-	1	1	-	1	-	1	-	1	1	1	-	1	5	25

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2980 / Items less than \$5 Million	Modification Number / Title: 2 / DC009 - AN/SPS-48G RADAR OBSOLESCENCE AND AVAILABILITY RECOVERY (ROAR)

Modification Item 1 of 1: DC009 - AN/SPS-48G RADAR OBSOLESCENCE AND AVAILABILITY RECOVERY (ROAR)

Installation Information

Method of Implementation: AIT:: Installation Name: AN/SPS-48G HARDWARE - NON-FMP

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 2.200	1 / 2.166	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.366
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.400	2 / 5.400
Total	1 / 2.200	1 / 2.166	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.400	4 / 9.766

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	
Out	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	

Footnotes:

(6) FY13 and beyond Engineering Change Proposal funding is to incorporate High Diver Detection and Tracking functionality. This capability was designed and incorporated into the AN/SPS-48E after design of the AN/SPS-48G had been initiated. This change now needs to be translated into the different hardware and software architectures of the AN/SPS-48G.

(7) ECO funding is required to address Information Assurance (IA) efforts including a change to a more secure operating system which must be accomplished in order to receive IA recertification. Non-recurring engineering and interoperability testing of this operating system change took place in FY13-15, with initial fielding in FY16.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2980 / Items less than \$5 Million	Modification Number / Title: 3 / DC010 - AN/SPS-49 IN-SERVICE RADARS

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	18.580	-	-	-	-	-	-	-	-	-	-	18.580
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	18.580	-	-	-	-	-	-	-	-	-	-	18.580
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	18.580	-	-	-	-	-	-	-	-	-	-	18.580
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This funding continues and executes efforts funded under the Radar Improvement Program. This program addresses already realized obsolescence, cost, reliability and maintainability issues raised by the fleet for the AN/SPS-49(V) air search radar, initially introduced in the Navy in the 1970's. These funds support the completion of the AN/SPS-49 Solid State Modulator (SSM) program and provide funding to begin addressing serious obsolescence issues throughout the radar including already obsolete Circuit Card Assemblies (CCAs) and other electrical components, and ongoing reliability problems in the transmitter. An upgrade to the existing LHD 1 AN/SPS-49(V)5 radar is required for interoperability with the Ship Self Defense System (SSDS) MK II, and the current AN/SPS-49(V)5 radar will not support the CAPSTONE Combat System being installed aboard LHD 1. The SSM effort replaces the current modulator to address obsolescence and Unable to Procure (UTP) issues associated with the modulator installed in the AN/SPS-49(V) radar. This program also installs a previously procured AN/SPS-49A(V)1 Medium Pulse Upgrade (MPU) Kit on the existing AN/SPS-49(V)5 radar aboard LHD 1 required as part of the planned CAPSTONE upgrade to the LHD 1 Combat System. Without this upgrade, the SPS-49 will not be able to operate with the Ship Self Defense System (SSDS) being installed as part of CAPSTONE.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2980 / Items less than \$5 Million				Modification Number / Title: 3 / DC010 - AN/SPS-49 IN-SERVICE RADARS					
Models of Systems Affected: AN/SPS-49				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: DC010 - AN/SPS-49 IN-SERVICE RADARS													
B Kits													
Recurring													
1.1.1) HARDWARE - FMP - NonOrganic		28 / 7.481	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 7.481	
1.1.2) OTHER - Organic		- / 3.340	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.340	
1.1.3) HARDWARE - NON-FMP - NonOrganic		5 / 0.938	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.938	
1.1.4) ENGINEERING CHANGE PROPOSALS (ECPS) - NonOrganic		- / 0.001	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	
Subtotal: Recurring		- / 11.760	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.760	
Subtotal: DC010 - AN/SPS-49 IN-SERVICE RADARS		33 / 11.760	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 11.760	
Subtotal: Procurement, All Modification Items		- / 11.760	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.760	
Installation													
Modification Item 1 of 1: DC010 - AN/SPS-49 IN-SERVICE RADARS		- / 6.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.820	
Subtotal: Installation		- / 6.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.820	
Total													
Total Cost (Procurement + Support + Installation)		18.580	-	-	-	-	-	-	-	-	-	18.580	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2980 / Items less than \$5 Million	Modification Number / Title: 3 / DC010 - AN/SPS-49 IN-SERVICE RADARS

Modification Item 1 of 1: DC010 - AN/SPS-49 IN-SERVICE RADARS

Manufacturer Information

Manufacturer Name: POLARITY, INC	Manufacturer Location: RANCHO CORDOVA, CA
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 24

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: [none specified]:: Installation Name: Hardware

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	33 / 6.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 6.820
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	33 / 6.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 6.820

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33
Out	32	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2980 / Items less than \$5 Million					Modification Number / Title: 5 / DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP)				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		3.810	1.389	0.214	0.995	-	0.995	1.373	1.484	1.477	1.506	13.477	25.725
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>		3.810	1.389	0.214	0.995	-	0.995	1.373	1.484	1.477	1.506	13.477	25.725
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		3.810	1.389	0.214	0.995	-	0.995	1.373	1.484	1.477	1.506	13.477	25.725
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Description: Provides real-time valunumeric wind profiles, convective weather detection/display, and radar refractivity assessments from AN/SPY-1 radar returns. TEP will be an adjunct processor and display, tapping radar data from weather and refractivity data, with users able to access information through Secret Internet Protocol Router (SIPR). TEP installations began in FY13, are aligned with AEGIS Modernization in FY14 and will continue beyond the FYDP.													

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2980 / Items less than \$5 Million						Modification Number / Title: 5 / DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP)			
Models of Systems Affected: TACTICAL ENVIRONMENTAL PROCESSOR (TEP)				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP)													
B Kits													
Recurring													
1.1.1) DDG HARDWARE - FMP - NonOrganic	1 / 0.345	2 / 0.725	- / -	1 / 0.375	- / -	1 / 0.375	2 / 0.763	2 / 0.780	2 / 0.795	2 / 0.809	23 / 9.522	35 / 14.114	
1.1.2) DDG COTS REFRESH - Organic	- / -	- / -	- / -	- / 0.085	- / -	- / 0.085	- / 0.170	- / 0.085	- / -	- / 0.170	- / -	- / 0.510	
1.1.3) PRODUCTION SUPPORT - Organic	- / 2.821	- / 0.559	- / -	- / 0.515	- / -	- / 0.515	- / 0.309	- / 0.392	- / 0.452	- / 0.265	- / 0.995	- / 6.308	
1.1.4) TEP SHORE SITES HARDWARE - NonOrganic	3 / 0.499	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.499	
<i>Subtotal: Recurring</i>	- / 3.665	- / 1.284	- / -	- / 0.975	- / -	- / 0.975	- / 1.242	- / 1.257	- / 1.247	- / 1.244	- / 10.517	- / 21.431	
<i>Subtotal: DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP)</i>	4 / 3.665	2 / 1.284	- / -	1 / 0.975	- / -	1 / 0.975	2 / 1.242	2 / 1.257	2 / 1.247	2 / 1.244	23 / 10.517	38 / 21.431	
<i>Subtotal: Procurement, All Modification Items</i>	- / 3.665	- / 1.284	- / -	- / 0.975	- / -	- / 0.975	- / 1.242	- / 1.257	- / 1.247	- / 1.244	- / 10.517	- / 21.431	
Installation													
<i>Modification Item 1 of 1:</i> DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP)													
<i>Subtotal: Installation</i>	- / 0.145	- / 0.105	- / 0.214	- / 0.020	- / -	- / 0.020	- / 0.131	- / 0.227	- / 0.230	- / 0.262	- / 2.960	- / 4.294	
Total													
Total Cost (Procurement + Support + Installation)	3.810	1.389	0.214	0.995	-	0.995	1.373	1.484	1.477	1.506	13.477	25.725	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10		P-1 Line Item Number / Title: 2980 / Items less than \$5 Million			Modification Number / Title: 5 / DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP)		

Modification Item 1 of 1: DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP)

Manufacturer Information

Manufacturer Name: BASIC COMMERCE AND INDUSTRIES, INC	Manufacturer Location: MOORESTOWN, NJ
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 11

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Feb 2014		Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
Delivery Dates	Jan 2015		Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020

Installation Information

Method of Implementation: AIT:: Installation Name: DDG HARDWARE - FMP

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	1 / 0.105	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.105
FY 2014	- / -	- / -	2 / 0.214	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.214
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / 0.020	- / -	- / 0.020	1 / 0.091	- / -	- / -	- / -	- / -	1 / 0.111
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.040	2 / 0.187	- / -	- / -	- / -	2 / 0.227
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.040	2 / 0.190	- / -	- / -	2 / 0.230
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.040	2 / 0.222	- / -	2 / 0.262
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.040	2 / 0.200	2 / 0.240
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 2.760	22 / 2.760
Total	- / -	1 / 0.105	2 / 0.214	- / 0.020	- / -	- / 0.020	1 / 0.131	2 / 0.227	2 / 0.230	2 / 0.262	24 / 2.960	34 / 4.149

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	1	-	-	2	-	-	-	-	2	-	-	-	2	-	24	34
Out	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	28	34

Method of Implementation: [none specified]:: Installation Name: TEP SHORE SITES HARDWARE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	3 / 0.145	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.145

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2980 / Items less than \$5 Million	Modification Number / Title: 5 / DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP)

Modification Item 1 of 1: DC015 - TACTICAL ENVIRONMENTAL PROCESSOR (TEP)

Installation Information

Method of Implementation: [none specified]:: Installation Name: TEP SHORE SITES HARDWARE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	3 / 0.145	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.145

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Out	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2980 / Items less than \$5 Million	Modification Number / Title: 6 / DC018 - AN/SPY-1 RM&A IMPROVEMENTS

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	2.400	9.592	14.527	17.501	-	17.501	21.973	47.510	29.053	29.673	186.842	359.071
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	2.400	9.592	14.527	17.501	-	17.501	21.973	47.510	29.053	29.673	186.842	359.071
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	2.400	9.592	14.527	17.501	-	17.501	21.973	47.510	29.053	29.673	186.842	359.071
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

DC018 AN/SPY-1 RM&A IMPROVEMENTS - These Reliability, Maintainability, and Availability (RM&A) improvements are intended to reduce cascading failures, mitigate obsolescence issues, and improve reliability in support of Anti-Air Warfare (AAW) and Ballistic Missile Defense (BMD) missions while still providing AN/SPY-1 Radar Total Ownership Cost (TOC) reductions. The improvements include, but are not limited to, installation for Sidewall Capacitor Circuit Protection and 10kW Traveling Wave Tube (TWT) Monitoring Circuits Ordnance Alterations (ORDALTS) starting in FY13 and Water Cooled Vane (WCV) to Double Duty (DD) conversion kits starting in FY16. AN/SPY-1 Pack Up Kits (PUKs) consist of long lead and high failure parts procured in FY14, then provided to and managed by Regional Maintenance Centers (RMCs). Solid State Switch Assemblies (SSSA) will be procured beginning in FY15 through replacement of legacy switch tube modulator deck ORDALT. FY18 includes funding for shock qualification testing of the SSSA and SPY-1D(V) Final Power Amplifier (FPA) cabinet required by MILSPEC 901-D.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2980 / Items less than \$5 Million				Modification Number / Title: 6 / DC018 - AN/SPY-1 RM&A IMPROVEMENTS				
Models of Systems Affected: AN/SPY-1 RM&A IMPROVEMENTS				Modification Type:				Related RDT&E PEs: 0604501N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: DC018 - AN/SPY-1 RM&A IMPROVEMENTS												
B Kits												
Recurring												
1.1) SIDEWALL AND 10KW TWT DDG HARDWARE - NonOrganic ⁽⁸⁾	12 / 1.104	9 / 1.270	16 / 2.247	3 / 0.467	- / -	3 / 0.467	8 / 1.177	8 / 1.258	6 / 0.921	- / -	- / -	62 / 8.444
1.2) PACK UP KITS - Organic	- / -	3 / 4.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 4.300
1.3) PRODUCTION SUPPORT - Organic	- / 0.078	- / 1.349	- / 0.433	- / 0.675	- / -	- / 0.675	- / 0.821	- / 1.441	- / 1.198	- / 1.423	- / 4.731	- / 12.149
1.4) SIDEWALL AND 10KW TWT CG HARDWARE - NonOrganic	- / -	8 / 2.124	2 / 0.355	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 2.479
1.5) SIDEWALL AND 10KW TWT SHORE SITE HARDWARE - NonOrganic	8 / 1.172	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 1.172
1.6) WATER COOLED VANE (WCV) TO DOUBLE DUTY CONVERSION KITS - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.365	- / -	- / -	- / -	27 / 70.006	28 / 72.371
1.7) SOLID STATE SWITCH ASSEMBLY DDG HARDWARE - NonOrganic	- / -	- / -	1 / 2.674	3 / 7.740	- / -	3 / 7.740	5 / 12.780	9 / 22.896	8 / 20.352	8 / 20.064	34 / 86.376	68 / 172.882
1.8) SOLID STATE SWITCH ASSEMBLY SHORE SITE HARDWARE - NonOrganic	- / -	- / -	2 / 5.347	1 / 2.480	- / -	1 / 2.480	1 / 2.560	2 / 5.090	- / -	- / -	- / -	6 / 15.477
1.9) SOLID STATE SWITCH ASSEMBLY SPARES - NonOrganic ⁽⁹⁾	- / -	- / -	7 / 2.340	16 / 5.260	- / -	16 / 5.260	3 / 0.959	7 / 2.226	12 / 3.816	10 / 3.135	8 / 2.496	63 / 20.232
1.10) SOLID STATE SWITCH ASSEMBLY FINAL POWER AMPLIFIER ENV/QUAL - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 12.600	- / -	- / -	- / -	1 / 12.600
Subtotal: Recurring	- / 2.354	- / 9.043	- / 13.396	- / 16.622	- / -	- / 16.622	- / 20.662	- / 45.511	- / 26.287	- / 24.622	- / 163.609	- / 322.106
Subtotal: DC018 - AN/SPY-1 RM&A IMPROVEMENTS	20 / 2.354	20 / 9.043	28 / 13.396	23 / 16.622	- / -	23 / 16.622	18 / 20.662	27 / 45.511	26 / 26.287	18 / 24.622	69 / 163.609	249 / 322.106
Subtotal: Procurement, All Modification Items	- / 2.354	- / 9.043	- / 13.396	- / 16.622	- / -	- / 16.622	- / 20.662	- / 45.511	- / 26.287	- / 24.622	- / 163.609	- / 322.106
Installation												
Modification Item 1 of 1: DC018 - AN/SPY-1 RM&A IMPROVEMENTS	- / 0.046	- / 0.549	- / 1.131	- / 0.879	- / -	- / 0.879	- / 1.311	- / 1.999	- / 2.766	- / 5.051	- / 23.233	- / 36.965
Subtotal: Installation	- / 0.046	- / 0.549	- / 1.131	- / 0.879	- / -	- / 0.879	- / 1.311	- / 1.999	- / 2.766	- / 5.051	- / 23.233	- / 36.965
Total												
Total Cost (Procurement + Support + Installation)	2.400	9.592	14.527	17.501	-	17.501	21.973	47.510	29.053	29.673	186.842	359.071

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2980 / Items less than \$5 Million				Modification Number / Title: 6 / DC018 - AN/SPY-1 RM&A IMPROVEMENTS				
Modification Item 1 of 1: DC018 - AN/SPY-1 RM&A IMPROVEMENTS												
Manufacturer Information												
Manufacturer Name: SOLID STATE SWITCH ASSEMBLY (SSSA) - RAYTHEON							Manufacturer Location: Andover, MA					
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 24					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates		Apr 2015	Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019					
Delivery Dates		Apr 2017	Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021					
Manufacturer Name: SEIWALL AND 10KW TWT ORDALTS - RAYTHEON							Manufacturer Location: Sudbury, MA					
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 12					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Dec 2013	Feb 2015	Nov 2015	Nov 2016	Nov 2017	Nov 2018						
Delivery Dates	Sep 2014	Feb 2016	Nov 2016	Nov 2017	Nov 2018	Nov 2019						
Manufacturer Name: WATER COOLED VANE TO DOUBLE DUTY CONVERSION KITS - CPI AND L3							Manufacturer Location: Beverly, MA and Willamsport, PA					
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 9					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates			Nov 2015									
Delivery Dates			Aug 2016									
Installation Information												
Method of Implementation: AIT:: Installation Name: SEIWALL AND 10KW TWT DDG HARDWARE												
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	12 / 0.521	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.521
FY 2014	- / -	- / -	9 / 0.311	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.311
FY 2015	- / -	- / -	- / -	16 / 0.662	- / -	16 / 0.662	- / -	- / -	- / -	- / -	- / -	16 / 0.662
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.045	- / -	- / -	- / -	- / -	3 / 0.045
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.311	- / -	- / -	- / -	8 / 0.311
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.188	- / -	- / -	8 / 0.188
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.241	- / -	6 / 0.241
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	12 / 0.521	9 / 0.311	16 / 0.662	- / -	16 / 0.662	3 / 0.045	8 / 0.311	8 / 0.188	6 / 0.241	- / -	62 / 2.279

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015									
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10					P-1 Line Item Number / Title: 2980 / Items less than \$5 Million					Modification Number / Title: 6 / DC018 - AN/SPY-1 RM&A IMPROVEMENTS									

Modification Item 1 of 1: DC018 - AN/SPY-1 RM&A IMPROVEMENTS

Installation Information

Method of Implementation: AIT:: Installation Name: SIDEWALL AND 10KW TWT DDG HARDWARE

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	12	-	3	6	-	-	6	8	2	-	-	2	1	-	4	2	2	-	2	2	4	-	2	2	2	-	62
Out	-	-	-	-	4	8	3	6	-	-	6	8	2	-	-	2	1	-	4	2	2	-	2	2	4	-	2	2	2	-	62

Method of Implementation: AIT:: Installation Name: SIDEWALL AND 10KW TWT CG HARDWARE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	8 / 0.820	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.820
FY 2015	- / -	- / -	- / -	2 / 0.217	- / -	2 / 0.217	- / -	- / -	- / -	- / -	- / -	2 / 0.217
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	8 / 0.820	2 / 0.217	- / -	2 / 0.217	- / -	- / -	- / -	- / -	- / -	10 / 1.037

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	4	2	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	
Out	-	-	-	-	-	-	4	2	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	

Method of Implementation: AIT:: Installation Name: SIDEWALL AND 10KW TWT SHORE SITE HARDWARE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	4 / 0.046	4 / 0.028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.074

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2980 / Items less than \$5 Million	Modification Number / Title: 6 / DC018 - AN/SPY-1 RM&A IMPROVEMENTS

Modification Item 1 of 1: DC018 - AN/SPY-1 RM&A IMPROVEMENTS

Installation Information

Method of Implementation: AIT:: Installation Name: SIDEWALL AND 10KW TWT SHORE SITE HARDWARE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	4 / 0.046	4 / 0.028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.074

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Out	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8

Method of Implementation: [none specified]:: Installation Name: WATER COOLED VANE (WCV) TO DOUBLE DUTY CONVERSION KITS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.022	- / -	- / -	- / -	- / -	1 / 0.022
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.638	27 / 0.638
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.022	- / -	- / -	- / -	27 / 0.638	28 / 0.660

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015									
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10					P-1 Line Item Number / Title: 2980 / Items less than \$5 Million					Modification Number / Title: 6 / DC018 - AN/SPY-1 RM&A IMPROVEMENTS									

Modification Item 1 of 1: DC018 - AN/SPY-1 RM&A IMPROVEMENTS

Installation Information

Method of Implementation: [none specified]:: Installation Name: WATER COOLED VANE (WCV) TO DOUBLE DUTY CONVERSION KITS

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	27	28
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	27	28

Method of Implementation: [none specified]:: Installation Name: SOLID STATE SWITCH ASSEMBLY DDG HARDWARE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.415	- / -	- / -	- / -	- / -	1 / 0.415
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.266	- / -	- / -	- / -	3 / 1.266
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.148	- / -	- / -	5 / 2.148
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 3.936	- / -	9 / 3.936
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.562	8 / 3.562
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.626	8 / 3.626
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 15.407	34 / 15.407
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.415	3 / 1.266	5 / 2.148	9 / 3.936	50 / 22.595	68 / 30.360

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	-	1	2	2	-	3	4	2	50	68
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	-	1	2	2	-	3	4	2	50	68

Method of Implementation: [none specified]:: Installation Name: SOLID STATE SWITCH ASSEMBLY SHORE SITE HARDWARE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2980 / Items less than \$5 Million	Modification Number / Title: 6 / DC018 - AN/SPY-1 RM&A IMPROVEMENTS

Modification Item 1 of 1: DC018 - AN/SPY-1 RM&A IMPROVEMENTS

Installation Information

Method of Implementation: [none specified]:: Installation Name: SOLID STATE SWITCH ASSEMBLY SHORE SITE HARDWARE

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.829	- / -	- / -	- / -	- / -	2 / 0.829
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.422	- / -	- / -	- / -	1 / 0.422
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.430	- / -	- / -	1 / 0.430
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.874	- / -	2 / 0.874
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.829	1 / 0.422	1 / 0.430	2 / 0.874	- / -	6 / 2.555

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	1	-	1	1	-	-	-	6
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	1	-	1	1	-	-	-	6

Method of Implementation (Organic): Organic - PACK UP KITS

Installation Quantity: 3

Footnotes:

⁽⁸⁾ Sidewall Capacitor ORDALT is not required for all CGs. The 10KW TWT ORDALT is not required for those destroyers undergoing AEGIS modernization with ORDALT 8778, but those ships still require the sidewall capacitor ORDALT.

⁽⁹⁾ Solid State Switch Assembly Spares include initial spares and INCOs which are required for installations.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 11: Shipboard Communications	P-1 Line Item Number / Title: 3010 / Shipboard Tactical Comms

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	14.410	8.722	-	8.722	33.401	41.175	54.973	64.591	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	14.410	8.722	-	8.722	33.401	41.175	54.973	64.591	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	14.410	8.722	-	8.722	33.401	41.175	54.973	64.591	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	0.113	-	0.113	-	-	-	-	-	0.113
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

[P3A / (DN 110) DMR IW and MUOS Waveforms]: Digital Modular Radio (DMR) with Integrated Waveform (IW) and Mobile User Objective System (MUOS) Waveforms capable hardware is a four-channel software defined radio that provides satellite communications, Line of Sight (LOS) and High Frequency (HF), Very High Frequency (VHF) and Ultra High Frequency (UHF) communication capability to surface, submarine, and shore facilities. This Variant of DMR includes hardware that is IW and MUOS Waveforms compatible, and will allow IW and MUOS Waveforms software installation as those capabilities become available.

[P3A - 2 / (DN 111) DMR IW and MUOS Waveforms Upgrade Kits]: Digital Modular Radio (DMR) with Integrated Waveform (IW) and Mobile User Objective System (MUOS) Waveforms capable Upgrade Kits provide hardware and IW and MUOS capable software to upgrade fielded DMR systems.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy	Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 11: Shipboard Communications	P-1 Line Item Number / Title: 3010 / Shipboard Tactical Comms

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / (DN 110) DMR IW and MUOS Waveforms ()	P-3a		- / 0.000	- / -	- / 6.245	- / 5.869	- / -	- / 5.869
2 / (DN 111) DMR IW and MUOS Waveforms Upgrade Kits ()	P-3a		- / 0.000	- / -	- / 8.165	- / 2.853	- / -	- / 2.853
Total Gross/Weapon System Cost			- / 0.000	- / -	- / 14.410	- / 8.722	- / -	- / 8.722
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / (DN 110) DMR IW and MUOS Waveforms ()	P-3a		- / 23.634	- / 33.962	- / 48.928	- / 61.678	Continuing	Continuing
2 / (DN 111) DMR IW and MUOS Waveforms Upgrade Kits ()	P-3a		- / 9.767	- / 7.213	- / 6.045	- / 2.913	Continuing	Continuing
Total Gross/Weapon System Cost			- / 33.401	- / 41.175	- / 54.973	- / 64.591	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 add due to rounding.

Justification:

FY16 funding provides for the procurement of 15 Integrated Waveform (IW) and Mobile User Objective System (MUOS) Waveforms capable upgrade kits and 5 IW and MUOS Waveform capable DMR systems.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11				P-1 Line Item Number / Title: 3010 / Shipboard Tactical Comms				Modification Number / Title: 1 / (DN 110) DMR IW and MUOS Waveforms			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	6.245	5.869	-	5.869	23.634	33.962	48.928	61.678	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	6.245	5.869	-	5.869	23.634	33.962	48.928	61.678	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	6.245	5.869	-	5.869	23.634	33.962	48.928	61.678	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Digital Modular Radio (DMR) with Integrated Waveform (IW) and Mobile User Objective System (MUOS) Waveforms capable hardware is a four-channel software defined radio that provides satellite communications, Line of Sight (LOS) and High Frequency (HF), Very High Frequency (VHF) and Ultra High Frequency (UHF) communication capability to surface, submarine, and shore facilities. This Variant of DMR includes hardware that is IW/MUOS Waveform compatible, and will allow IW/MUOS software installation as those capabilities become available.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11				P-1 Line Item Number / Title: 3010 / Shipboard Tactical Comms				Modification Number / Title: 1 / (DN 110) DMR IW and MUOS Waveforms					
Models of Systems Affected: AN/USC-61(C)				Modification Type:				Related RDT&E PEs: 0604280N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: (DN 110) DMR IW and MUOS Waveforms													
B Kits													
Recurring													
1.1.1) DMR IW and MUOS Waveforms Procurement - NonOrganic ⁽¹⁾	- / -	- / -	6 / 5.880	5 / 5.047	- / -	5 / 5.047	17 / 17.675	25 / 26.772	31 / 34.193	37 / 42.035	- / -	121 / 131.602	
Subtotal: Recurring	- / 0.000	- / -	- / 5.880	- / 5.047	- / -	- / 5.047	- / 17.675	- / 26.772	- / 34.193	- / 42.035	- / -	- / 131.602	
Subtotal: (DN 110) DMR IW and MUOS Waveforms	- / -	- / -	6 / 5.880	5 / 5.047	- / -	5 / 5.047	17 / 17.675	25 / 26.772	31 / 34.193	37 / 42.035	- / -	121 / 131.602	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / 5.880	- / 5.047	- / -	- / 5.047	- / 17.675	- / 26.772	- / 34.193	- / 42.035	- / -	- / 131.602	
Support (All Modification Items)													
2.1) DMR IW and MUOS Waveforms Production Support	- / -	- / -	- / 0.365	- / 0.204	- / -	- / 0.204	- / 1.051	- / 1.637	- / 2.250	- / 3.146	Continuing	Continuing	
2.2) DMR IW and MUOS Waveforms DSA	- / -	- / -	- / -	- / 0.618	- / -	- / 0.618	- / 2.172	- / 2.805	- / 3.745	- / 4.947	Continuing	Continuing	
Subtotal: Support	- / 0.000	- / -	- / 0.365	- / 0.822	- / -	- / 0.822	- / 3.223	- / 4.442	- / 5.995	- / 8.093	Continuing	Continuing	
Installation													
Modification Item 1 of 1: (DN 110) DMR IW and MUOS Waveforms	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.736	- / 2.748	- / 8.740	- / 11.550	- / 35.252	- / 61.026	
Subtotal: Installation	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 2.736	- / 2.748	- / 8.740	- / 11.550	- / 35.252	- / 61.026	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	6.245	5.869	-	5.869	23.634	33.962	48.928	61.678	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11				P-1 Line Item Number / Title: 3010 / Shipboard Tactical Comms			
				Modification Number / Title: 1 / (DN 110) DMR IW and MUOS Waveforms			

Modification Item 1 of 1: (DN 110) DMR IW and MUOS Waveforms

Manufacturer Information							
Manufacturer Name: General Dynamics ⁽²⁾				Manufacturer Location: Scottsdale, Arizona			
Administrative Leadtime (in Months): 7				Production Leadtime (in Months): 24			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		May 2015	May 2016				
Delivery Dates		May 2017	May 2018				

Installation Information

Method of Implementation: [none specified]:: Installation Name: DMR IW and MUOS Waveforms Procurement

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.736	- / -	- / -	- / -	- / -	6 / 2.736
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.748	- / -	- / -	- / -	5 / 2.748
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 8.740	- / -	- / -	17 / 8.740
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 11.550	- / -	25 / 11.550
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 17.607	31 / 17.607
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 17.645	37 / 17.645
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.736	5 / 2.748	17 / 8.740	25 / 11.550	68 / 35.252	121 / 61.026

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	1	-	3	2	-	-	7	5	5	-	11	14	68	121
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	1	-	3	2	-	-	7	5	5	-	11	82	121

Footnotes:

⁽¹⁾ 24 month Production Lead Time (PLT) for DMR IW and MUOS systems delivery to address mitigation of known engineering end-of-life resources. 7 Month Administrative Lead Time (ALT) for DMR IW and MUOS systems to allow synchronization with SCN to take advantage of favorable quantity pricing.

⁽²⁾ Sole Source, C-Type, FFP CLIN

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11	P-1 Line Item Number / Title: 3010 / Shipboard Tactical Comms	Modification Number / Title: 2 / (DN 111) DMR IW and MUOS Waveforms Upgrade Kits

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	8.165	2.853	-	2.853	9.767	7.213	6.045	2.913	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	-	8.165	2.853	-	2.853	9.767	7.213	6.045	2.913	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	8.165	2.853	-	2.853	9.767	7.213	6.045	2.913	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Digital Modular Radio (DMR) with Integrated Waveform (IW) and Mobile User Objective System (MUOS) Waveforms capable Upgrade Kits provide hardware and IW and MUOS capable software to upgrade fielded DMR systems.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11				P-1 Line Item Number / Title: 3010 / Shipboard Tactical Comms				Modification Number / Title: 2 / (DN 111) DMR IW and MUOS Waveforms Upgrade Kits				
Models of Systems Affected: AN/USC-61(C)			Modification Type:					Related RDT&E PEs: 0604280N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: (DN 111) DMR IW and MUOS Waveforms Upgrade Kits												
B Kits												
Recurring												
1.1.1) DMR IW and MUOS Waveforms Upgrade Kits Procurement - NonOrganic ⁽³⁾												
Subtotal: Recurring												
Subtotal: (DN 111) DMR IW and MUOS Waveforms Upgrade Kits												
Subtotal: Procurement, All Modification Items												
Support (All Modification Items)												
2.1) DMR IW and MUOS Waveforms Upgrade Kits Production Support												
2.2) DMR IW and MUOS Waveforms Upgrade Kits DSA												
Subtotal: Support												
Installation												
Modification Item 1 of 1: (DN 111) DMR IW and MUOS Waveforms Upgrade Kits												
Subtotal: Installation												
Total												
Total Cost (Procurement + Support + Installation)												

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11		P-1 Line Item Number / Title: 3010 / Shipboard Tactical Comms			Modification Number / Title: 2 / (DN 111) DMR IW and MUOS Waveforms Upgrade Kits		

Modification Item 1 of 1: (DN 111) DMR IW and MUOS Waveforms Upgrade Kits

Manufacturer Information							
Manufacturer Name: General Dynamics ⁽⁴⁾				Manufacturer Location: Scottsdale, Arizona			
Administrative Leadtime (in Months): 7				Production Leadtime (in Months): 24			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		May 2015	May 2016				
Delivery Dates		May 2017	May 2018				

Installation Information

Method of Implementation: Method:: Installation Name: DMR MUOS Upgrade Kits

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	44 / 3.898	- / -	- / -	- / -	- / -	44 / 3.898
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.369	- / -	- / -	- / -	15 / 1.369
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 2.631	- / -	- / -	28 / 2.631
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 2.710	- / -	28 / 2.710
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.196	15 / 1.196
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	44 / 3.898	15 / 1.369	28 / 2.631	28 / 2.710	15 / 1.196	130 / 11.804

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	15	15	-	5	5	5	-	9	9	10	-	10	10	23	130
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	15	15	-	5	5	5	-	9	9	10	-	10	33	130

Footnotes:

⁽³⁾ 24 month Production Lead Time (PLT) for DMR IW and MUOS Waveforms Upgrade Kit delivery due to varying PLT's from multiple resource vendors for the final product. 7 Month Administrative Lead Time (ALT) for DMR IW and MUOS Waveforms Upgrade Kits to allow synchronization with SCN to take advantage of favorable quantity pricing.

⁽⁴⁾ Sole Source, C-Type, FFP CLIN

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 11: Shipboard Communications						P-1 Line Item Number / Title: 3050 / Ship Communications Automation						
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements: 0204163N				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	380.306	23.877	20.830	108.477	-	108.477	72.428	71.400	79.271	80.422	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	380.306	23.877	20.830	108.477	-	108.477	72.428	71.400	79.271	80.422	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	380.306	23.877	20.830	108.477	-	108.477	72.428	71.400	79.271	80.422	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.087	0.137	0.176	-	0.176	0.109	0.021	0.014	0.015	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
Ship Communication Automation (52PQ): With the evolution of afloat networks programs migrating into the Consolidated Afloat Networks and Enterprise Services (CANES) program , the Ship Communications Automation budget line will continue to support Automated Digital Network System (ADNS), Legacy Network Operation Rolling Tide (ORT), Command and Control Official Information eXchange (C2OIX) (formerly Tactical Messaging), and Tactical Switching programs.												
Automated Digital Network System (ADNS): ADNS provides routing, switching, baseband, configuration and monitoring capabilities for interconnecting naval and coalition enclaves worldwide. ADNS utilizes Commercial Off-the-Shelf/ Government Off-the-Shelf (COTS/GOTS) equipment and network protocols as specified by the joint technical architecture. ADNS Increment I provides initial limited, ship to shore IP connectivity, separation of enclaves, reuse of unused enclave bandwidth, and ship to tactical shore IP connectivity. ADNS Increment II provides capabilities of network to Satellite Communications, Load Balancing, Radio Frequency (RF) restoral, and Quality of Service (QoS) to include application prioritization, Traffic Management, compression and enhancements designed to maximize use of "effective" available bandwidth for surface, shore, and airborne platforms. ADNS Increment III combines all Navy Tactical Voice, secure Communications Interoperability Protocol Inter-Working Function, Video, and data requirements into a converged IP data stream. This includes Secure Communication Interoperability- Protocol Interworking Function (SCIP-IWF) for secure telephony over IP. In addition, the Increment III architecture will incorporate an IPv4/IPv6 dual stack and a Cipher-Text security architecture to align to the Global Information Grid (GIG) in order to mesh Navy tactical surface, subsurface, and airborne platforms into a single IP environment with gateway functions to joint and coalition networks. FY14-15 funding resides in BLI 2915. FY16-20 funding was realigned back into BLI 3050 for Major Automated Information System (MAIS) transparency compliance.												
Legacy Network Operation Rolling Tide (ORT): ORT is a Navy-wide cyber remediation initiative to secure government databases and improve the overall security protocols for Navy computer networks. Specifically, PQ071 will fund planned legacy network upgrades to support Windows XP eradication and mitigate security vulnerabilities on the highest End of Life platforms that are not targeted to be replaced by a Consolidated Afloat Networks & Enterprise Services (CANES) system until after FY18. These upgrades will mitigate known targeted cyber vulnerabilities and include critical End of Life (EOL) firewalls and routers and improved anti-malware solutions. Legacy Network ORT will improve the networks ability to detect known and unknown vulnerabilities and attacks by upgrading sensor and monitoring technologies and accelerate post-attack containment and recovery.												
Command and Control Official Information eXchange (C2OIX) (formerly Tactical Messaging): C2OIX consolidates the Tactical Messaging and Defense Messaging System (DMS) programs and manages the Navy's messaging systems, providing sustainment support and modernization for all afloat and shore platforms. The modernization effort within C2OIX for afloat platforms replaces older Naval Modular Automated Communication System (NAVMACS) that lacked adherence to current cyber security requirements. It also automates and increases the speed and efficiency of handling organizational message traffic aboard ships and submarines, as well as replaces ten NAVMACS variants distributed throughout the Navy. The shore component of C2OIX Project is the IP-based C2OIX Shore system. C2OIX will												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 11: Shipboard Communications		P-1 Line Item Number / Title: 3050 / Ship Communications Automation
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0204163N
virtualize all Government Official Information Exchange System (GOES) software suites on the NIPR and SIPR enclaves at the NAVAL Computer Telecommunication Area Master Stations (NCTAMS) PAC and NCTAMS LANT. C2OIX shore and afloat will satisfy the Navy messaging requirements and implement products that are developed with an open system architecture.		
Tactical Switching: Tactical Switching provides expansion of Enterprise Network Management System (ENMS), Internet Protocol (IP) services, transport via the Navy Tactical Wide Area Network (NTWAN) to additional customers, increasing services, hardening of networks in support of the Task Force Cyber Awakening (TFCA) cyber resiliency plan which includes Operation Rolling Tide (ORT) to strengthen the Command and Control of Cyber Operations, and adding systems to provide a holistic Network Management status. Tactical Switching will reduce the Navy's dependency on legacy serial transport and continue the migration to an IP interoperability and integration between Navy forces to support full network centric warfare. Tactical Switching will provide full direct access for Navy warfighters through the Navy Regional Network Operations and Security Centers to the all IP Global Information Grid (GIG) for full warfighting application data exchange and provide server consolidation ashore to support a common computing environment. Tactical Switching will also provide the mechanism for dynamically and automatically managed real time integrated information assurance and security and mitigate vulnerabilities within the Navy shore regions. Quality of service enabled traffic flow prioritization and fully automated dynamic bandwidth management will also be provided. Tactical Switching strategy is to maximize the use of joint infrastructures. Tactical Switching will maximize the Defense Information Systems Network Core for unified Navy transport, allowing for route diversification and distributed joint services allowing access anywhere via distributed services.		
[P3A / PQ065 Command and Control Official Information eXchange (C2OIX) (Formerly Tactical Messaging) Afloat]: The Command and Control Official Information Exchange (C2OIX) Project provides Joint Command and Control (C2) organizational messaging for shore and afloat platforms to satisfy GENSER messaging requirements. It automates and increases the speed and efficiency of handling organizational message traffic aboard ships, submarines and shore sites. C2OIX will continue to satisfy the same requirements and implements products that are developed with an open system architecture and are conducive to technological upgrades. C2OIX products replace the older Naval Modular Automated Communication System (NAVMACS) which lack adherence to current cyber security requirements. C2OIX has been designated as a Service Life Extension Project (SLEP) to provide an end-of-life technology refresh for all NAVMACS systems on ships, submarines, Tactical Mobile Units and shore sites. The afloat component of C2OIX Project is the NAVMACS II/Single Messaging Solution (SMS) AN/SYQ-26(V)7 variant. The shore component of C2OIX Project is the IP-based C2OIX Shore system. C2OIX will re-host the C2OIX Message Gate Software Suites on the NIPR and SIPR enclaves in the Fleet Network Operational Center(s) (FLT NOC) at the NAVAL Computer Telecommunication Area Master Station (NCTAMS) PAC or LANT, eliminating the NIPR and SIPR C2OIX system hardware from the NCTAMS Messaging Centers. Messaging Center staff will remote into the FLTNOC for monitoring and management of the NIPR and SIPR enclaves. The C2OIX TS Enclave will remain at the NCTAMS message center.		
[P3A - 3 / PQ070 Tactical Switching]: Tactical Switching Ashore (TSw): Provides the switching and bandwidth management components of high capacity interoperable communications, as the number one fleet commander requirement in the Navy-wide Command, Control, Communications, Computers and Intelligence (C4I) and information warfare joint mission area assessment. Provides for the shore segment interconnect of an end-to-end dynamic bandwidth management, Internet Protocol, and channel access protocol capability to deploying battle groups, amphibious ready groups, and other support units. Automates the major shore nodes which allow network centric and no emissions operations. Provides afloat interoperability of tactical and strategic C4I circuits with Marine Corps Ground Mobile Forces (GMF). Tactical Switching which includes GMF interoperability, automated network control center, automated technical control, automated digital multiplexer system, and the fleet Network Operation Centers is the key enabling mechanism for the execution of the Automated Digital Network System and Consolidated Afloat Networks and Enterprise Services strategy which is essential to meeting the information technology for the 21st Century C4I vision. Tactical Switching deploys an Enterprise Network Management System (ENMS) which provides enterprise-wide network monitoring, management, and automated problem resolution for the shore network infrastructure during a benign and/or denied operating environment. Tactical Switching system capabilities allow flexible, secure and reliable communications for voice, video, and data applications for Navy terrestrial radio frequency links and pier side connectivity. Increment II: The Tactical Switching plan replaces selected obsolete 1970's based shore equipment with current Commercial Off-the-Shelf/Government Off-the-Shelf (COTS/GOTS) products which comply with Department of Defense (DoD) Global Information Grid (GIG) and teleport architectures and standards that have demonstrated interoperability with DoD and joint systems. Procurement of these state of the art products converge circuit-based communications to a DoD standardized, integrated, and interoperable Internet Protocol (IP) network. Tactical Switching will migrate selected shore sites and their terrestrial interconnections into a coherent, scalable, network-centric capability.		
[P3A - 4 / PQ071 Legacy Network Operation Rolling Tide (ORT)]: Operation Rolling Tide (ORT) is a Navy-wide cyber remediation initiative to secure government databases and improve the overall security protocols for Navy computer networks. Specifically, PQ071 will fund planned legacy network upgrades to support Windows XP eradication and mitigate security vulnerabilities on the highest End of Life platforms that are not targeted to be replaced by a Consolidated Afloat Networks & Enterprise Services (CANES) system until after FY18. These upgrades will mitigate known targeted cyber vulnerabilities and include critical End of Life (EOL) firewalls and routers and improved anti-malware solutions. Legacy Network ORT will improve the networks ability to detect known and unknown vulnerabilities and attacks by upgrading sensor and monitoring technologies and accelerate post-attack containment and recovery.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 11: Shipboard Communications		P-1 Line Item Number / Title: 3050 / Ship Communications Automation
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0204163N

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 11: Shipboard Communications	P-1 Line Item Number / Title: 3050 / Ship Communications Automation

ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0204163N

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Ship Communications Automation	P-5, P-5a		- / 0.000	- / -	- / -	- / 0.400	- / -	- / 0.400
1 / PQ065 Command and Control Official Information eXchange (C2OIX) (Formerly Tactical Messaging) Aflo ()	P-3a		- / 147.176	- / 3.732	- / 3.981	- / 4.197	- / -	- / 4.197
2 / PQ069 Automated Digital Network System ()	P-3a		- / 0.000	- / -	- / -	- / 52.995	- / -	- / 52.995
3 / PQ070 Tactical Switching ()	P-3a		- / 233.130	- / 20.145	- / 16.849	- / 20.885	- / -	- / 20.885
4 / PQ071 Legacy Network Operation Rolling Tide (ORT) ()	P-3a		- / 0.000	- / -	- / -	- / 30.000	- / -	- / 30.000
Total Gross/Weapon System Cost			- / 380.306	- / 23.877	- / 20.830	- / 108.477	- / -	- / 108.477

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / Ship Communications Automation	P-5, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / PQ065 Command and Control Official Information eXchange (C2OIX) (Formerly Tactical Messaging) Aflo ()	P-3a		- / 3.692	- / 3.624	- / 4.739	- / 4.833	Continuing	Continuing
2 / PQ069 Automated Digital Network System ()	P-3a		- / 44.149	- / 48.997	- / 57.572	- / 58.208	Continuing	Continuing
3 / PQ070 Tactical Switching ()	P-3a		- / 19.787	- / 18.379	- / 16.560	- / 16.981	Continuing	Continuing
4 / PQ071 Legacy Network Operation Rolling Tide (ORT) ()	P-3a		- / 4.400	- / -	- / -	- / -	- / -	- / 34.400
Total Gross/Weapon System Cost			- / 72.428	- / 71.400	- / 79.271	- / 80.422	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 add due to rounding.

Justification:

The FY 2016 funding request was reduced by \$5.4 million to account for the availability of prior year execution balances.

In FY 2016, ADNS funds are for the procurement of (22) Inc III Afloat units, (38) Inc III Afloat Technical Insertion units, (4) Ashore Inc I/Inc II units, and (6) Ashore Inc III units, with integration, and associated costs for pre-installation design. In addition, the FY16 ADNS investment will fund installation of (31) Inc III Afloat units, (38) Inc III Afloat Technical Insertion units, (4) Ashore Inc I/Inc II units, and (6) Ashore Inc III units.

In FY 2016, Legacy Network ORT funds are for the procurement of (32) Legacy Network ORT units. In addition, the FY16 Legacy Network ORT will fund installation of (25) Legacy Network ORT units.

In FY 2016, C2OIX will fund equipment procurements and installations.

In FY 2016, Tactical Switching Ashore will procure, integrate and install hardware and software to transform legacy serial transport to an IP environment; expand IP services to include application hosting with additional servers and storage capability; and expand NetOps and Cyber remediation solutions to detect, deter and mitigate network threats.

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Exhibit P-5, Cost Analysis: PB 2016 Navy								Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11				P-1 Line Item Number / Title: 3050 / Ship Communications Automation				Item Number / Title [DODIC]: 1 / Ship Communications Automation										
ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:												
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)		0.000	-	-	0.400	-	0.400	-	-	-	-	-	-					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) (\$ in Millions)		0.000	-	-	0.400	-	0.400	-	-	-	-	-	-					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		0.000	-	-	0.400	-	0.400	-	-	-	-	-	-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-	-	-	-	-	-	-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
1.1.1) Automated Digital Network System (ADNS) - Ashore - INC I&II ^(†) (1)	-	-	0.000	-	-	-	-	-	-	100.000	4	0.400	-	-	-	100.000	4	0.400
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	-	-	-	0.400	-	-	-	-	-	0.400
Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	-	-	-	0.400	-	-	-	-	-	0.400
Gross/Weapon System Cost	-	-	0.000	-	-	-	-	-	-	-	-	0.400	-	-	-	-	-	0.400
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
1.1.1) Automated Digital Network System (ADNS) - Ashore - INC I&II ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11						P-1 Line Item Number / Title: 3050 / Ship Communications Automation						Item Number / Title [DODIC]: 1 / Ship Communications Automation						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Remarks: ADNS Ashore/ Network Operations Center (NOC) (†) indicates the presence of a P-5a Footnotes: (1) Automated Digital Network System (ADNS) - FY14-15 funding resides in BLI 2915. FY16-20 funding was realigned back into BLI 3050 for Major Automated Information System (MAIS) transparency compliance.																		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11			P-1 Line Item Number / Title: 3050 / Ship Communications Automation					Item Number / Title [DODIC]: 1 / Ship Communications Automation				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) Automated Digital Network System (ADNS) - Ashore - INC I&II		2016	SAIC / San Diego, CA	C / TBD	SPAWAR	Nov 2015	Mar 2016	4	100.000	Y		

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11	P-1 Line Item Number / Title: 3050 / Ship Communications Automation	Modification Number / Title: 1 / PQ065 Command and Control Official Information eXchange (C2OIX) (Formerly Tactical Messaging) Aflo

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	147.176	3.732	3.981	4.197	-	4.197	3.692	3.624	4.739	4.833	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	147.176	3.732	3.981	4.197	-	4.197	3.692	3.624	4.739	4.833	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	147.176	3.732	3.981	4.197	-	4.197	3.692	3.624	4.739	4.833	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 Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

[C2OIX Equipment (Afloat)] C2OIX consolidates the Tactical Messaging and Defense Messaging System (DMS) programs and manages the Navy's messaging systems, providing sustainment support and modernization for all afloat and shore platforms. The modernization effort within C2OIX for afloat platforms replaces older Naval Modular Automated Communication System (NAVMACS) that lacked adherence to current cyber security requirements. It also automates and increases the speed and efficiency of handling organizational message traffic aboard ships and submarines, as well as replaces ten NAVMACS variants distributed throughout the Navy. C2OIX shore and afloat will satisfy the Navy messaging requirements and implement products that are developed with an open system architecture.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11				P-1 Line Item Number / Title: 3050 / Ship Communications Automation					Modification Number / Title: 1 / PQ065 Command and Control Official Information eXchange (C2OIX) (Formerly Tactical Messaging) Aflo				
Models of Systems Affected: Tactical Messaging / C2OIX / NAVMACS				Modification Type:					Related RDT&E PEs:				
Financial Plan		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement													
Modification Item 1 of 1: PQ065 Command and Control Official Information eXchange (C2OIX) (Formerly Tactical Messaging) Aflo													
B Kits													
Recurring													
1.1.1) Equipment Prior Year Sunk - NonOrganic		233 / 93.506	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	233 / 93.506
1.1.2) Tactical Messaging Tech Refresh - NonOrganic		3 / 1.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.850
1.1.3) C2OIX Equipment (Afloat) - NonOrganic ⁽²⁾		9 / 2.016	7 / 1.598	7 / 1.801	9 / 1.880	- / -	9 / 1.880	9 / 1.475	10 / 1.595	15 / 2.159	15 / 2.202	Continuing	Continuing
1.1.4) C2OIX Equipment (Ashore) - NonOrganic		- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.190	- / -	- / -	- / -	- / -	2 / 0.190
Subtotal: Recurring		- / 97.372	- / 1.598	- / 1.801	- / 1.880	- / -	- / 1.880	- / 1.665	- / 1.595	- / 2.159	- / 2.202	Continuing	Continuing
Non-Recurring													
1.2.1) Non-Recurring Equipment - Organic		1 / 1.982	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.982
Subtotal: Non-Recurring		- / 1.982	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.982
Subtotal: PQ065 Command and Control Official Information eXchange (C2OIX) (Formerly Tactical Messaging) Aflo		246 / 99.354	7 / 1.598	7 / 1.801	9 / 1.880	- / -	9 / 1.880	11 / 1.665	10 / 1.595	15 / 2.159	15 / 2.202	Continuing	Continuing
Subtotal: Procurement, All Modification Items		- / 99.354	- / 1.598	- / 1.801	- / 1.880	- / -	- / 1.880	- / 1.665	- / 1.595	- / 2.159	- / 2.202	Continuing	Continuing
Support (All Modification Items)													
2.1) Production Support		- / 8.221	- / 0.096	- / 0.113	- / 0.118	- / -	- / 0.118	- / 0.105	- / 0.101	- / 0.136	- / 0.140	Continuing	Continuing
2.2) DSA		- / 5.265	- / 0.636	- / 0.624	- / 0.765	- / -	- / 0.765	- / 0.558	- / 0.587	- / 0.712	- / 0.726	Continuing	Continuing
Subtotal: Support		- / 13.486	- / 0.732	- / 0.737	- / 0.883	- / -	- / 0.883	- / 0.663	- / 0.688	- / 0.848	- / 0.866	Continuing	Continuing
Installation													
Modification Item 1 of 1: PQ065 Command and Control Official Information eXchange (C2OIX) (Formerly Tactical Messaging) Aflo		- / 34.336	- / 1.402	- / 1.443	- / 1.434	- / -	- / 1.434	- / 1.364	- / 1.341	- / 1.732	- / 1.765	- / -	- / 44.817
Subtotal: Installation		- / 34.336	- / 1.402	- / 1.443	- / 1.434	- / -	- / 1.434	- / 1.364	- / 1.341	- / 1.732	- / 1.765	- / -	- / 44.817
Total													
Total Cost (Procurement + Support + Installation)		147.176	3.732	3.981	4.197	-	4.197	3.692	3.624	4.739	4.833	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11	P-1 Line Item Number / Title: 3050 / Ship Communications Automation	Modification Number / Title: 1 / PQ065 Command and Control Official Information eXchange (C2OIX) (Formerly Tactical Messaging) Aflo

Modification Item 1 of 1: PQ065 Command and Control Official Information eXchange (C2OIX) (Formerly Tactical Messaging) Aflo

Manufacturer Information							
Manufacturer Name: General Dynamics				Manufacturer Location: Taunton, MA			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 1			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Jan 2014	Jan 2015	Jan 2016				

Installation Information

Method of Implementation: Method:: Installation Name: Installation of Equipment - C2OIX Afloat

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	245 / 34.336	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	245 / 34.336
FY 2014	- / -	7 / 1.402	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.402
FY 2015	- / -	- / -	7 / 1.443	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 1.443
FY 2016	- / -	- / -	- / -	9 / 1.434	- / -	9 / 1.434	- / -	- / -	- / -	- / -	- / -	9 / 1.434
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	11 / 1.364	- / -	- / -	- / -	- / -	11 / 1.364
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 1.341	- / -	- / -	- / -	10 / 1.341
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.732	- / -	- / -	15 / 1.732
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 1.765	- / -	15 / 1.765
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	245 / 34.336	7 / 1.402	7 / 1.443	9 / 1.434	- / -	9 / 1.434	11 / 1.364	10 / 1.341	15 / 1.732	15 / 1.765	- / -	319 / 44.817

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	245	-	-	5	2	-	2	2	2	1	-	1	6	2	4	2	3	2	3	4	3	-	4	5	6	-	5	5	5	-	319
Out	245	-	-	5	2	-	2	2	2	1	-	1	6	2	4	2	3	2	3	4	3	-	4	5	6	-	5	5	5	-	319

Method of Implementation (Organic): Not Installed - Non-Recurring Equipment **Installation Quantity:** 1

Footnotes:

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11	P-1 Line Item Number / Title: 3050 / Ship Communications Automation	Modification Number / Title: 1 / PQ065 Command and Control Official Information eXchange (C2OIX) (Formerly Tactical Messaging) Aflo

⁽²⁾ First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11				P-1 Line Item Number / Title: 3050 / Ship Communications Automation					Modification Number / Title: 2 / PQ069 Automated Digital Network System			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	-	52.995	-	52.995	44.149	48.997	57.572	58.208	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	-	52.995	-	52.995	44.149	48.997	57.572	58.208	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	-	52.995	-	52.995	44.149	48.997	57.572	58.208	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 Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

ADNS is the gateway to the tactical Wide Area Network (WAN) afloat for Internet Protocol (IP) network operations, supporting information dissemination and external connectivity. ADNS allows services and applications to interconnect to the Defense Information Systems Network (DISN) ashore via multiple Radio Frequency (RF) resources and pier connectivity.

[Automated Digital Network System (ADNS) - Afloat- INC III] ADNS is the gateway to tactical Wide Area Network (WAN) afloat for Internet Protocol (IP) network operations, supporting information dissemination and external connectivity. ADNS provides the only Quality and Class of Service (QoS/CoS) routing for Multi-Service Voice, Video, and Data domains across available Radio Frequency (RF) paths.

[ADNS - Production Support]

[ADNS - DSA]

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11				P-1 Line Item Number / Title: 3050 / Ship Communications Automation				Modification Number / Title: 2 / PQ069 Automated Digital Network System					
Models of Systems Affected: Automated Digital Network System (ADNS) Ashore / Network Operations Center (NOC). Ashore Increment I				Modification Type:				Related RDT&E PEs: 0204163N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: PQ069 Automated Digital Network System													
B Kits													
Recurring													
1.1.1) Automated Digital Network System (ADNS) - Afloat- INC III - NonOrganic ⁽³⁾	- / -	- / -	24 / -	22 / 21.572	- / -	22 / 21.572	26 / 24.762	28 / 25.207	40 / 33.529	43 / 38.688	Continuing	Continuing	
1.1.2) Automated Digital Network System (ADNS)- Ashore- INC III - NonOrganic ⁽⁴⁾	- / -	- / -	6 / -	6 / 1.800	- / -	6 / 1.800	6 / 1.800	6 / 1.800	6 / 1.800	6 / 1.800	Continuing	Continuing	
1.1.3) ADNS Tech Insertions - NonOrganic ⁽⁵⁾	- / -	- / -	- / -	38 / 9.647	- / -	38 / 9.647	23 / 4.540	28 / 3.681	29 / 3.700	16 / 2.980	Continuing	Continuing	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 33.019	- / -	- / 33.019	- / 31.102	- / 30.688	- / 39.029	- / 43.468	Continuing	Continuing	
Subtotal: PQ069 Automated Digital Network System	- / -	- / -	30 / -	66 / 33.019	- / -	66 / 33.019	55 / 31.102	62 / 30.688	75 / 39.029	65 / 43.468	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 33.019	- / -	- / 33.019	- / 31.102	- / 30.688	- / 39.029	- / 43.468	Continuing	Continuing	
Support (All Modification Items)													
2.1) ADNS - Production Support	- / -	- / -	- / -	- / 1.350	- / -	- / 1.350	- / 1.600	- / 1.410	- / 2.013	- / 2.033	Continuing	Continuing	
2.2) ADNS - DSA	- / -	- / -	- / -	- / 1.713	- / -	- / 1.713	- / 1.749	- / 3.003	- / 1.715	- / 2.303	Continuing	Continuing	
Subtotal: Support	- / 0.000	- / -	- / -	- / 3.063	- / -	- / 3.063	- / 3.349	- / 4.413	- / 3.728	- / 4.336	Continuing	Continuing	
Installation													
Modification Item 1 of 1: PQ069 Automated Digital Network System	- / 0.000	- / -	- / -	- / 16.913	- / -	- / 16.913	- / 9.698	- / 13.896	- / 14.815	- / 10.404	- / -	- / 65.726	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 16.913	- / -	- / 16.913	- / 9.698	- / 13.896	- / 14.815	- / 10.404	- / -	- / 65.726	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	52.995	-	52.995	44.149	48.997	57.572	58.208	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11	P-1 Line Item Number / Title: 3050 / Ship Communications Automation	Modification Number / Title: 2 / PQ069 Automated Digital Network System

Modification Item 1 of 1: PQ069 Automated Digital Network System

Manufacturer Information

Manufacturer Name: SERCO, INC.				Manufacturer Location: San Diego, CA			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 7			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Nov 2015				
Delivery Dates			Jun 2016				
Manufacturer Name: SSC PAC-- San Diego, CA				Manufacturer Location: San Diego, CA			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 2			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Nov 2015				
Delivery Dates			Jan 2016				
Manufacturer Name: SSC PAC-- San Diego, CA				Manufacturer Location: San Diego, CA			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 7			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Nov 2015				
Delivery Dates			Jun 2016				

Installation Information

Method of Implementation: [none specified]:: Installation Name: Automated Digital Network System (ADNS) - Afloat- INC III

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	24 / 10.094	- / -	24 / 10.094	- / -	- / -	- / -	- / -	- / -	24 / 10.094
FY 2016	- / -	- / -	- / -	7 / 2.859	- / -	7 / 2.859	15 / 6.172	- / -	- / -	- / -	- / -	22 / 9.031
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.466	21 / 8.927	- / -	- / -	- / -	26 / 11.393
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 3.809	16 / 5.616	- / -	- / -	28 / 9.425
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 8.019	17 / 6.229	- / -	40 / 14.248
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 3.255	32 / -	43 / 3.255
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	31 / 12.953	- / -	31 / 12.953	20 / 8.638	33 / 12.736	39 / 13.635	28 / 9.484	32 / -	183 / 57.446

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11	P-1 Line Item Number / Title: 3050 / Ship Communications Automation	Modification Number / Title: 2 / PQ069 Automated Digital Network System

Modification Item 1 of 1: PQ069 Automated Digital Network System

Installation Information

Method of Implementation: [none specified]:: Installation Name: Automated Digital Network System (ADNS) - Afloat- INC III

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	12	5	7	7	8	4	3	5	17	2	2	12	7	5	4	23	7	7	4	42	183
Out	-	-	-	-	-	-	-	-	-	-	7	5	10	9	6	4	3	4	16	4	3	11	7	5	6	17	10	6	7	43	183

Method of Implementation: [none specified]:: Installation Name: Automated Digital Network System (ADNS)- Ashore- INC III

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	6 / 3.200	- / -	6 / 3.200	- / -	- / -	- / -	- / -	- / -	6 / 3.200
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.600	- / -	- / -	- / -	- / -	6 / 0.600
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.600	- / -	- / -	- / -	6 / 0.600
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.600	- / -	- / -	6 / 0.600
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.600	- / -	6 / 0.600
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / -	6 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	6 / 3.200	- / -	6 / 3.200	6 / 0.600	6 / 0.600	6 / 0.600	6 / 0.600	6 / -	36 / 5.600

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	6	-	-	-	6	-	-	-	6	-	-	-	6	-	-	-	6	-	-	6	36
Out	-	-	-	-	-	-	-	-	-	-	6	-	-	-	6	-	-	-	6	-	-	-	6	-	-	-	6	-	-	6	36

Method of Implementation: [none specified]:: Installation Name: ADNS Tech Insertions

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11	P-1 Line Item Number / Title: 3050 / Ship Communications Automation	Modification Number / Title: 2 / PQ069 Automated Digital Network System

Modification Item 1 of 1: PQ069 Automated Digital Network System

Installation Information

Method of Implementation: [none specified]:: Installation Name: ADNS Tech Insertions

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	38 / 0.760	- / -	38 / 0.760	- / -	- / -	- / -	- / -	- / -	38 / 0.760
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	23 / 0.460	- / -	- / -	- / -	- / -	23 / 0.460
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 0.560	- / -	- / -	- / -	28 / 0.560
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 0.580	- / -	- / -	29 / 0.580
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.320	- / -	16 / 0.320
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	38 / 0.760	- / -	38 / 0.760	23 / 0.460	28 / 0.560	29 / 0.580	16 / 0.320	- / -	134 / 2.680

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	8	9	8	13	4	4	7	8	6	10	9	3	6	4	14	5	3	5	8	-	134
Out	-	-	-	-	-	-	-	-	-	-	-	9	9	7	12	8	7	1	6	8	15	4	8	2	10	7	7	3	9	2	134

Footnotes:

(3) Average unit costs fluctuate for procurement and installation due to various system configurations required for surface and submarine platforms. FY16 average unit costs are lower than the out years due to a larger proportion of INC III Backfits being procured. An INC III Backfit is a hardware kit used to upgrade an existing INC III system. Backfit procurement and installation costs are lower than the full scale INC III system. ADNS INC III Afloat procurement cost range: \$.5M - \$1.5M; INC III Backfit procurement cost range: \$.15M - \$.25M; installation cost range: \$.4M - \$1.0M. INC III units require an additional 4 months after delivery for required integration, assembly and testing prior to installation start. Installs do not begin until 11 months after contract award (7 months production lead time + 4 months integration). First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability. FY15 Procurement quantity (24) were procured under BLI 2915, therefore BLI 3050 FY15 procurement cost is \$0.00. The associated installation in FY16 is funded under BLI 3050.

(4) -FY16-20 procurement quantities represent minor tech refreshes at 6 sites that include 4 NOCs (NCTS Bahrain, NCTAMS EURCENT, NCTAMS LANT, and NCTAMS PAC). - FY15 Procurement quantity (24) were procured under BLI 2915, therefore BLI 3050 FY15 procurement cost is \$0.00. The associated installation in FY16 is funded under BLI 3050. - INC III ashore units require an additional 4 months after delivery for required integration, assembly, testing and shipping that must occur prior to installation start. Installs do not begin until 11 months after procurement contract award (7 months production lead time + 4 months integration).

(5) FY16: Technology Insertions (TI) will be fielded to include hardware and software baseline updates to afloat units required to maximize C4ISR capability and interface functionality between ADNS and applicable Satellite Communications (SATCOM) systems such as Battle Force Tactical Network (BFTN), Global Broadcast System (GBS) and Navy Multi-Band Terminal (NMT). TI require (1) month administrative lead time and (2) months production lead time.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11				P-1 Line Item Number / Title: 3050 / Ship Communications Automation				Modification Number / Title: 3 / PQ070 Tactical Switching			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	233.130	20.145	16.849	20.885	-	20.885	19.787	18.379	16.560	16.981	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	233.130	20.145	16.849	20.885	-	20.885	19.787	18.379	16.560	16.981	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	233.130	20.145	16.849	20.885	-	20.885	19.787	18.379	16.560	16.981	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Tactical Switching Ashore has been structured to support the migration of the shore sites and their terrestrial interconnections into a coherent, scalable, network-centric capability.

[Equipment - Increment II] Tactical Switching provides expansion of Enterprise Network Management System (ENMS), Internet Protocol (IP) services, transport via the Navy Tactical Wide Area Network (NTWAN) to additional customers, increasing services, hardening of networks in support of the Task Force Cyber Awakening (TFCA) cyber resiliency plan which includes Operation Rolling Tide (ORT) to strengthen the Command and Control of Cyber Operations, and adding systems to provide a holistic Network Management status.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11				P-1 Line Item Number / Title: 3050 / Ship Communications Automation				Modification Number / Title: 3 / PQ070 Tactical Switching					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: PQ070 Tactical Switching													
B Kits													
Recurring													
1.1.1) Equipment - Increment I - NonOrganic ⁽⁶⁾	10 / 33.814	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 33.814	
1.1.2) Equipment - Increment II - NonOrganic ⁽⁷⁾	35 / 149.185	5 / 16.258	5 / 13.508	5 / 16.744	- / -	5 / 16.744	5 / 15.867	5 / 14.738	5 / 13.274	5 / 13.610	Continuing	Continuing	
Subtotal: Recurring	- / 182.999	- / 16.258	- / 13.508	- / 16.744	- / -	- / 16.744	- / 15.867	- / 14.738	- / 13.274	- / 13.610	Continuing	Continuing	
Subtotal: PQ070 Tactical Switching	45 / 182.999	5 / 16.258	5 / 13.508	5 / 16.744	- / -	5 / 16.744	5 / 15.867	5 / 14.738	5 / 13.274	5 / 13.610	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 182.999	- / 16.258	- / 13.508	- / 16.744	- / -	- / 16.744	- / 15.867	- / 14.738	- / 13.274	- / 13.610	Continuing	Continuing	
Support (All Modification Items)													
2.1) DSA	- / 1.946	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.946	
2.2) Production Support	- / 15.957	- / 0.948	- / 0.810	- / 1.010	- / -	- / 1.010	- / 0.954	- / 0.887	- / 0.795	- / 0.816	- / -	- / 22.177	
Subtotal: Support	- / 17.903	- / 0.948	- / 0.810	- / 1.010	- / -	- / 1.010	- / 0.954	- / 0.887	- / 0.795	- / 0.816	- / -	- / 24.123	
Installation													
Modification Item 1 of 1: PQ070 Tactical Switching	- / 32.228	- / 2.939	- / 2.531	- / 3.131	- / -	- / 3.131	- / 2.966	- / 2.754	- / 2.491	- / 2.555	- / -	- / 51.595	
Subtotal: Installation	- / 32.228	- / 2.939	- / 2.531	- / 3.131	- / -	- / 3.131	- / 2.966	- / 2.754	- / 2.491	- / 2.555	- / -	- / 51.595	
Total													
Total Cost (Procurement + Support + Installation)	233.130	20.145	16.849	20.885	-	20.885	19.787	18.379	16.560	16.981	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11		P-1 Line Item Number / Title: 3050 / Ship Communications Automation			Modification Number / Title: 3 / PQ070 Tactical Switching

Modification Item 1 of 1: PQ070 Tactical Switching

Manufacturer Information

Manufacturer Name: SSC LANT	Manufacturer Location: Charleston, SC
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 2

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jan 2014	Mar 2015	Mar 2016				
Delivery Dates	Mar 2014	May 2015	May 2016				

Installation Information

Method of Implementation: Method:: Installation Name: Installation of Equipment - Tactical Switching

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	45 / 32.228	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 32.228
FY 2014	- / -	5 / 2.939	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.939
FY 2015	- / -	- / -	5 / 2.531	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.531
FY 2016	- / -	- / -	- / -	5 / 3.131	- / -	5 / 3.131	- / -	- / -	- / -	- / -	- / -	5 / 3.131
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.966	- / -	- / -	- / -	- / -	5 / 2.966
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.754	- / -	- / -	- / -	5 / 2.754
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.491	- / -	- / -	5 / 2.491
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 2.555	- / -	5 / 2.555
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	45 / 32.228	5 / 2.939	5 / 2.531	5 / 3.131	- / -	5 / 3.131	5 / 2.966	5 / 2.754	5 / 2.491	5 / 2.555	- / -	80 / 51.595

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	45	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	80
Out	45	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	-	-	5	-	80

Footnotes:

⁽⁶⁾ Increment I-II Quantities represent 5 major shore regions (Naval Computer and Telecommunications Area Master Station Pacific (NCTAMS PAC), Naval Computer and Telecommunications Area Master Station Atlantic (NCTAMS LANT), Naval Computer & Telecommunications Station Naples (NCTS NAPLES), Naval Computer & Telecommunications Station Bahrain (NCTS Bahrain), and Naval Computer & Telecommunications Station San Diego (NCTS San Diego) with a total of 40+ shore communication activities spanning the 5 regions. Increment II upgrades will be implemented at the major shore regions consolidating into Global Network Operations and Security Centers, upgrades Transport, IP Services, and NetOps efficiencies, leveraging other Department of the Navy (DoN) and Department of Defense's (DoD) Defense Enterprise Computing Center (DECC) infrastructure initiatives for DoN/DoD Information Technology consolidation through FY20. 2/ Tactical Switching (TSw) Increment I-II consists of 17 different

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11	P-1 Line Item Number / Title: 3050 / Ship Communications Automation	Modification Number / Title: 3 / PQ070 Tactical Switching
systems incorporated into a consolidated single enterprise architecture. Installation costs vary each year/site depending on what modernization must be done at each site. Costs vary depending upon whether or not installs address increased bandwidth, risk vulnerabilities, increased survivability and reliability, and migration to an all-Internet Protocol (IP) architecture. (7) FY16 unit cost increase is due to funding in support of the Task Force Cyber Awakening (TFCA) cyber resiliency plan which includes Operation Rolling Tide (ORT).		

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11	P-1 Line Item Number / Title: 3050 / Ship Communications Automation	Modification Number / Title: 4 / PQ071 Legacy Network Operation Rolling Tide (ORT)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	-	30.000	-	30.000	4.400	-	-	-	-	34.400
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	-	30.000	-	30.000	4.400	-	-	-	-	34.400
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	-	30.000	-	30.000	4.400	-	-	-	-	34.400
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

[Legacy Network ORT - Equipment] Operation Rolling Tide (ORT) is a Navy-wide cyber remediation initiative to secure government databases and improve the overall security protocols for Navy computer networks. Specifically, PQ071 will fund planned legacy network upgrades to support Windows XP eradication and mitigate security vulnerabilities on the highest End of Life platforms that are not targeted to be replaced by a Consolidated Afloat Networks & Enterprise Services (CANES) system until after FY18. These upgrades will mitigate known targeted cyber vulnerabilities and include critical End of Life (EOL) firewalls and routers and improved anti-malware solutions. Legacy Network ORT will improve the networks ability to detect known and unknown vulnerabilities and attacks by upgrading sensor and monitoring technologies and accelerate post-attack containment and recovery.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11				P-1 Line Item Number / Title: 3050 / Ship Communications Automation				Modification Number / Title: 4 / PQ071 Legecy Network Operation Rolling Tide (ORT)					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: PQ071 Legecy Network Operation Rolling Tide (ORT)													
B Kits													
Recurring													
1.1.1) Legacy Network ORT - Equipment - NonOrganic (8)	- / -	- / -	- / -	32 / 23.383	- / -	32 / 23.383	5 / 2.310	- / -	- / -	- / -	- / -	37 / 25.693	
Subtotal: Recurring	- / 0.000	- / -	- / -	- / 23.383	- / -	- / 23.383	- / 2.310	- / -	- / -	- / -	- / -	- / 25.693	
Subtotal: PQ071 Legecy Network Operation Rolling Tide (ORT)	- / -	- / -	- / -	32 / 23.383	- / -	32 / 23.383	5 / 2.310	- / -	- / -	- / -	- / -	37 / 25.693	
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / -	- / 23.383	- / -	- / 23.383	- / 2.310	- / -	- / -	- / -	- / -	- / 25.693	
Support (All Modification Items)													
2.1) Legacy Network ORT - DSA	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 0.240	- / -	- / -	- / -	- / -	- / 0.740	
Subtotal: Support	- / 0.000	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 0.240	- / -	- / -	- / -	- / -	- / 0.740	
Installation													
Modification Item 1 of 1: PQ071 Legecy Network Operation Rolling Tide (ORT)	- / 0.000	- / -	- / -	- / 6.117	- / -	- / 6.117	- / 1.850	- / -	- / -	- / -	- / -	- / 7.967	
Subtotal: Installation	- / 0.000	- / -	- / -	- / 6.117	- / -	- / 6.117	- / 1.850	- / -	- / -	- / -	- / -	- / 7.967	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	30.000	-	30.000	4.400	-	-	-	-	34.400	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11		P-1 Line Item Number / Title: 3050 / Ship Communications Automation			Modification Number / Title: 4 / PQ071 Legecy Network Operation Rolling Tide (ORT)		

Modification Item 1 of 1: PQ071 Legecy Network Operation Rolling Tide (ORT)

Manufacturer Information

Manufacturer Name: LANT				Manufacturer Location: LANT			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 3			

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Dec 2015	Dec 2016			
Delivery Dates			Mar 2016	Mar 2017			

Installation Information

Method of Implementation: [none specified]:: Installation Name: Legacy Network ORT - Equipment

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	25 / 6.117	- / -	25 / 6.117	7 / 1.225	- / -	- / -	- / -	- / -	32 / 7.342
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	5 / 0.625	- / -	- / -	- / -	- / -	5 / 0.625
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	25 / 6.117	- / -	25 / 6.117	12 / 1.850	- / -	- / -	- / -	- / -	37 / 7.967

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	10	7	8	7	3	1	1	-	-	-	-	-	-	-	-	-	-	-	-	37
Out	-	-	-	-	-	-	-	-	-	-	-	3	8	12	3	6	3	1	1	-	-	-	-	-	-	-	-	-	-	-	37

Footnotes:

⁽⁸⁾ First quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability. Average unit cost fluctuations are attributable to variances in system configuration requirements among platforms. Legacy Network ORT FY16 average unit costs are higher than FY17 as procurements are to include larger deck unit level platforms (CG/DDG/LHD/LSD). FY17 procurements apply to smaller deck unit level platforms only (PC/SSNs) . The average procurement unit

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11	P-1 Line Item Number / Title: 3050 / Ship Communications Automation	Modification Number / Title: 4 / PQ071 Legecy Network Operation Rolling Tide (ORT)

cost for larger deck unit level platforms range: \$.4M-\$.3.0M. Smaller deck unit level platforms range: \$.1M-\$.9M. Installation cost fluctuations are attributed to and dependent on class, level of the platform, variant of predecessor system the hull currently has installed, geographic location of the installation, and length of the availability. Installation cost range: \$.4M - \$.1.0M.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 11: Shipboard Communications							P-1 Line Item Number / Title: 3057 / Communications Items under \$5M					
ID Code (A=Service Ready, B=Not Service Ready) : A				Program Elements for Code B Items:				Other Related Program Elements: 0604280N				
Line Item MDAP/MAIS Code: 385		Item MDAP/MAIS Code(s):										
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	71.901	28.941	14.145	16.613	-	16.613	14.093	17.862	7.893	8.060	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	71.901	28.941	14.145	16.613	-	16.613	14.093	17.862	7.893	8.060	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	71.901	28.941	14.145	16.613	-	16.613	14.093	17.862	7.893	8.060	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	0.170	0.699	0.513	-	0.513	0.618	0.583	0.343	0.168	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: [P5 / NU020 DWTS]: Digital Wideband Transmission System (DWTS) provides terrestrial, meshed Internet Protocol (IP) communications network throughout the ESG and MAGTF. DWTS provides Intra-ESG Distributed Collaborative Planning (IDCP) applications such as Tactical Switching System, Tactical Video Tele-Conferencing (TAC-VTC), and Secret Internet Protocol Router Network (SIPRNET) Ship-to-Ship, Ship-to-Shore, and data transmission links. Each install consists of reconfiguring the current DWTS system with a configuration kit that allows the Marine Corps to bring the AN/PRC-117G radios for use with the DWTS system. [P5 / NU237 PORTABLE RADIOS]: Portable Radios (PORT RAD): Procures mission essential tactical handheld, manpack, vehicular/fixed mount radios, and ancillaries to meet secure/non-secure voice and data communications requirements for deploying Naval Expeditionary Forces Explosive Ordnance Disposal, Naval Beach Groups, Naval Construction Forces, Navy Cargo-Handling and Port Operations Group, and others under the Naval Expeditionary Combat Enterprise (NECE), and to meet emergency communications requirements for surface ships. Equipment is employed by individual NECE operational elements to accomplish missions, communicate with higher headquarters, conduct command and control of forces, and call for Close Air Support. Procurements are in accordance with Components' Tables of Allowance and are within approved Buy / Plan requirements. Procurement is needed to ensure interoperability with already fielded equipment, and between DoD Forces high priority programs such as Mine Resistant Ambush Protected and Military All-Terrain Vehicles, and Joint forces, including Allied/Coalition priorities. [P5 / NU239 PORT NSW]: Portable Radio/Naval Special Warfare (PORT NSW) tactical radio: PORT NSW procures hand held and man pack/vehicular radios for NSW. Procurement needed to support Force Protection operations, especially with joint forces. NSW operational elements (SEAL platoons and Combatant Craft Detachments) rely on tactical communications and electronics equipment to accomplish all missions assigned in support of the Joint and Fleet commanders. Navy resourced tactical communications equipment is considered mission essential and will be employed by individual SEAL personnel and NSW combat elements in man pack configurations as well as onboard tactical vehicles and NSW combatant craft in tactical operations centers in fixed mount configurations. [P5 / NU245 HYDRA]: Hierarchial Yet Dynamic Reprogrammable Architecture (HYDRA): HYDRA AN/SRC-55 will replace stovepipe wireless shipboard systems with an integrated system. HYDRA is a wireless digital voice and data communication system using Commercial off the Shelf (COTS) trunking technology. HYDRA is capable of interfacing with Private Branch Exchange/Battle Group (PBX/BG) Cellular/radio frequency (RF) systems. [P5 / NU295 BFTN]: Battle Force Tactical Network (BFTN): Provides National, Allied, and Coalition maritime units with a medium band Internet Protocol (IP) based, tactical ship to ship at-sea networking capability, using legacy half-duplex Ultra High Frequency (UHF) Line-of-Sight. The Battle Force Tactical Network Engineering Change (BFTN-ec) will also provide communications relays and network aware-automatic link establishment (NA-ALE) across battle groups and aircrafts extending the range of BFTN service levels in order to thwart contested satellite communications connectivity to shore servers.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 11: Shipboard Communications		P-1 Line Item Number / Title: 3057 / Communications Items under \$5M
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	
Other Related Program Elements: 0604280N		
Line Item MDAP/MAIS Code: 385	Item MDAP/MAIS Code(s):	
Enhancements will enable the BFTN network to self-assemble Transmission Control Protocol/Internet Protocol (TCP/IP) delivery circuits, adapt to user proximity changes and self-heal data delivery circuits, if they are degraded or forcefully taken from the Afloat fighting forces.		
[P5 / NU790 Navy Expeditionary C4I]: Navy Expeditionary Command, Control, Communications, Computers, & Intelligence (C4I): Provides procurement and integration for outfitting Table of Allowance (TOA) buy lists within the Expeditionary forces. Ensures common C4I solutions are being coordinated, tracked, procured and integrated across Navy Expeditionary Combat Command (NECC) forces.		
[P5 / NU260 DAMA IW - R]: Communication Modernization/Demand Assigned Multiple Access Integrated Waveform (DAMA IW): Ultra High Frequency (UHF) Satellite Communications (SATCOM) is the primary military C4I communication system that enables users to operate communications on-the-move, beyond line of sight, and under all environmental conditions. The currently implemented legacy UHF SATCOM DAMA systems are no longer sufficient to meet user requirements. DAMA IW provides C4I system enhancements that will more than double the present UHF SATCOM system voice nets, which will be used to reduce the existing gap between UHF SATCOM communications capacity and requirements. Communication Modernization provides critical beyond line-of-sight C4I communications to LOS ANGELES Fast Attack Submarines (SSN 688), and critical C4I system upgrades (HF, VHF/UHF/SATCOM C4I communications capabilities including DAMA IW) to small ship variants (such as Mine Counter Measure (MCM), Littoral Combat Ship (LCS), Patrol Craft (PC) radio room communication suites, etc.)		
[P5 / HF SAR Installations FMP]: High Frequency Shipboard Automatic Link Establishment Radio (HF SAR) [Previously known as High Frequency Automatic Link Establishment (HF-ALE)]: Provides 3G HF-ALE capabilities to the Embarked Marines aboard L-Class ships. HF SAR is a stand alone menu driven system providing voice, data and chat capabilities via Line of Sight (LOS) and Beyond Line of Sight (BLOS).		
[P5 / NU019 EPLRS-DR]: Enhanced Position Location Reporting System - Data Radio (EPLRS-DR) is a Blue in Support of Green (BISOG) program that provides secure Anti-Jam (AJ), Ultra High Frequency (UHF) (420-450 MHz) and Line of Sight (LOS) data communications in support of amphibious operations at throughputs of up to 54Kbps. EPLRS-DR provides embedded Position Location Information (PLI) between shipboard networks and the shore-based Marine Tactical Data Network (TDN) and the Army Tactical Internet (TI).		
The Conical Log Spiral Mobile (CLSM) antenna is a component of the USMC Enhanced Man-Pack UHP Tactical (EMUT) Satellite Antenna providing embarked marines with a stand alone Ultra High Frequency Satellite Communications (UHF SATCOM) system.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 11: Shipboard Communications					P-1 Line Item Number / Title: 3057 / Communications Items under \$5M			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements: 0604280N		
Line Item MDAP/MAIS Code: 385		Item MDAP/MAIS Code(s):						
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Communications Items under \$5M	P-5, P-5a		- / 71.901	- / 28.941	- / 14.145	- / 16.613	- / -	- / 16.613
Total Gross/Weapon System Cost			- / 71.901	- / 28.941	- / 14.145	- / 16.613	- / -	- / 16.613
*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 add due to rounding.								
Justification: The FY 2016 funding request was reduced by \$0.7 million to account for the availability of prior year execution balances. NU239 - PORT NSW: FY16 funding is to procure 168 radios. NU295 - BFTN: FY16 funding is to procure 5 units. NU790 - Navy Expeditionary C4I: FY16 funds will provide procurement, integration and modernization of Small, Medium and Large Scale Communication Systems. Additionally, project procures, integrates and modernizes tactical C4I, Sensors and Blue Force Tracker (BFT) for tactical vehicles and combatant crafts. AFSB SOF Mods: FY16 funds procure identical sets of equipment to support Special Operations Forces (SOF) communications, consisting of a radio backbone infrastructure (total of 13 antennas) and increasing the bandwidth to support SOF missions.								

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11						P-1 Line Item Number / Title: 3057 / Communications Items under \$5M						Item Number / Title [DODIC]: 1 / Communications Items under \$5M							
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				71.901		28.941		14.145		16.613		-		16.613					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P1) <i>(\$ in Millions)</i>				71.901		28.941		14.145		16.613		-		16.613					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				71.901		28.941		14.145		16.613		-		16.613					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares <i>(\$ in Millions)</i>				-		0.170		0.699		0.513		-		0.513					
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - NU237 PORTABLE RADIOS Cost																			
Recurring Cost																			
2.1.1) PORT RAD - Hand Held Procurement ^(†)		10.160	25	0.254	9.718	234	2.274	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost		-	-	0.254	-	-	2.274	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - NU237 PORTABLE RADIOS Cost		-	-	0.254	-	-	2.274	-	-	-	-	-	-	-	-	-	-	-	
Hardware - NU239 PORT NSW Cost																			
Recurring Cost																			
3.1.1) PORT NSW Hand Held Procurement ^(†)		17.226	469	8.079	14.245	399	5.684	14.530	290	4.214	14.824	125	1.853	-	-	-	14.824	125	1.853
3.1.2) PORT NSW Man Pack Procurement ^{(†) (1)}		35.180	723	25.435	35.188	155	5.454	35.892	146	5.240	36.610	43	1.574	-	-	-	36.610	43	1.574
Subtotal: Recurring Cost		-	-	33.514	-	-	11.138	-	-	9.454	-	-	3.427	-	-	-	-	-	3.427
Subtotal: Hardware - NU239 PORT NSW Cost		-	-	33.514	-	-	11.138	-	-	9.454	-	-	3.427	-	-	-	-	-	3.427
Hardware - NU245 HYDRA Cost																			
Non Recurring Cost																			
4.1.1) Hydra Procurement ^(†)		1,662.200	5	8.311	2,093.000	1	2.093	1,288.000	1	1.288	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11						P-1 Line Item Number / Title: 3057 / Communications Items under \$5M						Item Number / Title [DODIC]: 1 / Communications Items under \$5M						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Non Recurring Cost	-	-	8.311	-	-	2.093	-	-	1.288	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - NU245 HYDRA Cost	-	-	8.311	-	-	2.093	-	-	1.288	-	-	-	-	-	-	-	-	-
Hardware - NU295 BFTN Cost																		
Recurring Cost																		
5.1.1) BFTN System Procurement ^(†)	197.250	12	2.367	225.000	2	0.450	229.500	2	0.459	234.000	5	1.170	-	-	-	234.000	5	1.170
Subtotal: Recurring Cost	-	-	2.367	-	-	0.450	-	-	0.459	-	-	1.170	-	-	-	-	-	1.170
Subtotal: Hardware - NU295 BFTN Cost	-	-	2.367	-	-	0.450	-	-	0.459	-	-	1.170	-	-	-	-	-	1.170
Hardware - NU790 Navy Expeditionary C4I Cost																		
Recurring Cost																		
6.1.1) Navy Expeditionary C4I Procurement ^{(†) (2)}	246.667	3	0.740	253.333	3	0.760	282.667	3	0.848	279.333	3	0.838	-	-	-	279.333	3	0.838
Subtotal: Recurring Cost	-	-	0.740	-	-	0.760	-	-	0.848	-	-	0.838	-	-	-	-	-	0.838
Subtotal: Hardware - NU790 Navy Expeditionary C4I Cost	-	-	0.740	-	-	0.760	-	-	0.848	-	-	0.838	-	-	-	-	-	0.838
Hardware - NU260 DAMA IW - R Cost																		
Recurring Cost																		
7.1.1) DAMA IW Procurement ^(†)	664.429	7	4.651	600.000	3	1.800	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	4.651	-	-	1.800	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - NU260 DAMA IW - R Cost	-	-	4.651	-	-	1.800	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - NU777 Installations FMP Cost																		
Recurring Cost																		
8.1.1) EPLRS-DR FMP	-	-	-	-	-	0.010	-	-	-	-	-	-	-	-	-	-	-	-
8.1.3) Hydra Installations FMP	-	-	2.583	-	-	0.908	-	-	0.565	-	-	-	-	-	-	-	-	-
8.1.4) HF SAR Installations FMP	-	-	8.714	-	-	2.581	-	-	-	-	-	-	-	-	-	-	-	-
8.1.5) BFTN Installations FMP	-	-	2.400	-	-	1.140	-	-	0.724	-	-	1.846	-	-	-	-	-	1.846
8.1.6) DAMA IW Install (Afloat)	-	-	0.926	-	-	2.854	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	14.623	-	-	7.493	-	-	1.289	-	-	1.846	-	-	-	-	-	1.846

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11						P-1 Line Item Number / Title: 3057 / Communications Items under \$5M						Item Number / Title [DODIC]: 1 / Communications Items under \$5M						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Hardware - NU777 Installations FMP Cost	-	-	14.623	-	-	7.493	-	-	1.289	-	-	1.846	-	-	-	-	-	1.846
Hardware - NU019 EPLRS-DR Cost																		
Non Recurring Cost																		
9.1.1) EPLRS-DR Procurement ^(tt)	63.032	31	1.954	80.000	8	0.640	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	1.954	-	-	0.640	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - NU019 EPLRS-DR Cost	-	-	1.954	-	-	0.640	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - NUXXX AFSB SOF Mods (BSO 24) Cost																		
Recurring Cost																		
10.1.1) AFSB SOF MODS (BSO 24) ⁽³⁾	-	-	-	-	-	-	-	-	-	-	-	8.030	-	-	-	-	-	8.030
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	8.030	-	-	-	-	-	8.030
Subtotal: Hardware - NUXXX AFSB SOF Mods (BSO 24) Cost	-	-	-	-	-	-	-	-	-	-	-	8.030	-	-	-	-	-	8.030
Support - NU777 DSA Cost																		
11.2) HF SAR DSA/PRE Shore Installation Design	-	-	0.842	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.3) BFTN DSA	-	-	1.020	-	-	0.216	-	-	0.216	-	-	1.013	-	-	-	-	-	1.013
11.4) DAMA IW DSA	-	-	0.714	-	-	0.857	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - NU777 DSA Cost	-	-	2.576	-	-	1.073	-	-	0.216	-	-	1.013	-	-	-	-	-	1.013
Support - NU555 Production Support Cost																		
12.1) EPLRS-DR Production Support	-	-	-	-	-	0.290	-	-	-	-	-	-	-	-	-	-	-	-
12.3) PORT RAD Production Support	-	-	0.087	-	-	0.136	-	-	-	-	-	-	-	-	-	-	-	-
12.4) PORT NSW Production Support	-	-	1.761	-	-	0.611	-	-	0.535	-	-	0.220	-	-	-	-	-	0.220
12.5) BFTN Production Support	-	-	0.994	-	-	0.030	-	-	0.026	-	-	0.039	-	-	-	-	-	0.039
12.6) Navy Expeditionary C4I Production Support	-	-	0.028	-	-	0.029	-	-	0.030	-	-	0.030	-	-	-	-	-	0.030
12.7) DAMA IW Production Support	-	-	0.041	-	-	0.124	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy										Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11					P-1 Line Item Number / Title: 3057 / Communications Items under \$5M					Item Number / Title [DODIC]: 1 / Communications Items under \$5M							

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 add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - NU555 Production Support Cost</i>	-	-	2.911	-	-	1.220	-	-	0.591	-	-	0.289	-	-	-	-	-	0.289
Gross/Weapon System Cost	-	-	71.901	-	-	28.941	-	-	14.145	-	-	16.613	-	-	-	-	-	16.613

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

Footnotes:

(1) HMS manpack radios and PORT NSW Hand Held radios do not require installation.

(2) Unit cost fluctuation is a result of changes in vehicle baseline configuration.

(3) Funding in FY16 - FY18 is required to respond to CNO directive to provide additional Special Operations Forces (SOF) capability on the MLP 3 and MLP 4. The SOF component requires an AFSB to have the capability for planning and conducting Intelligence, Surveillance, and Reconnaissance (ISR) and Boat Assault Force (BAF) and Helicopter Assault Force (HAF) missions. These funds procure identical sets of equipment to support SOF communications, consisting of a radio backbone infrastructure (total of 13 antennas) and increasing the bandwidth to support SOF missions. These additional capabilities will be back fitted during each ship's Post Shakedown Availability.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 11			P-1 Line Item Number / Title: 3057 / Communications Items under \$5M					Item Number / Title [DODIC]: 1 / Communications Items under \$5M				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.1) PORT RAD - Hand Held Procurement		2014	Harris Corporation / Rochester, NY	C / FFP	SPAWAR	Dec 2013	May 2014	234	9.718	Y		Oct 2011
3.1.1) PORT NSW Hand Held Procurement		2014	Harris Corporation / Rochester, NY	C / FFP	SPAWAR	Dec 2013	May 2014	399	14.245	Y		
3.1.1) PORT NSW Hand Held Procurement		2015	Harris Corporation / Rochester, NY	C / FFP	SPAWAR	Dec 2014	May 2015	290	14.530	Y		
3.1.1) PORT NSW Hand Held Procurement		2016	Harris Corporation / Rochester, NY	C / FFP	SPAWAR	Dec 2015	May 2016	125	14.824	Y		
3.1.2) PORT NSW Man Pack Procurement		2014	Harris Corporation / Rochester, NY	C / FFP	SPAWAR	Dec 2013	May 2014	155	35.188	Y		
3.1.2) PORT NSW Man Pack Procurement		2015	Harris Corporation / Rochester, NY	C / FFP	SPAWAR	Dec 2014	May 2015	146	35.892	Y		
3.1.2) PORT NSW Man Pack Procurement		2016	Harris Corporation / Rochester, NY	C / FFP	SPAWAR	Dec 2015	May 2016	43	36.610	Y		
4.1.1) Hydra Procurement		2014	Harris / Lynchburg, VA	C / IDIQ	SSC LANT	Mar 2014	Sep 2014	1	2,093.000	Y		
4.1.1) Hydra Procurement		2015	Harris / Lynchburg, VA	C / IDIQ	SSC LANT	Feb 2015	Aug 2015	1	1,288.000	Y		
5.1.1) BFTN System Procurement		2014	SAIC / San Diego, CA	C / FFP	SPAWAR	Apr 2014	Aug 2014	2	225.000	Y		Aug 2011
5.1.1) BFTN System Procurement		2015	SAIC / San Diego, CA	C / FFP	SPAWAR	Jan 2015	May 2015	2	229.500	Y		Aug 2011
5.1.1) BFTN System Procurement		2016	SAIC / San Diego, CA	C / FFP	SPAWAR	Jan 2016	May 2016	5	234.000	Y		Aug 2011
6.1.1) Navy Expeditionary C4I Procurement		2014	SSC PAC/SSC LANT / SSC PAC/SSC LANT	WR	SSC PAC/ LANTSSC PAC/LANT	Dec 2013	Jan 2014	3	253.333	Y		
6.1.1) Navy Expeditionary C4I Procurement		2015	SSC PAC/SSC LANT / SSC PAC/SSC LANT	WR	SSC PAC/LANT	Dec 2014	Jan 2015	3	282.667	Y		
6.1.1) Navy Expeditionary C4I Procurement		2016	SSC PAC/SSC LANT / SSC PAC/SSC LANT	WR	SSC PAC/LANT	Dec 2015	Jan 2016	3	279.333	Y		
7.1.1) DAMA IW Procurement		2014	Harris Corporation / Rochester, NY	C / FFP	SPAWAR	May 2014	Jul 2014	3	600.000	Y		Oct 2013
9.1.1) EPLRS-DR Procurement		2014	Raytheon / FT. Wayne, IN	C / FFP	SSC PAC	Oct 2014	Jul 2015	8	80.000	Y		Aug 2014

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 12: Submarine Communications						P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support						
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	14.743	7.856	11.057	20.691	-	20.691	24.805	29.165	28.770	29.539	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	14.743	7.856	11.057	20.691	-	20.691	24.805	29.165	28.770	29.539	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	14.743	7.856	11.057	20.691	-	20.691	24.805	29.165	28.770	29.539	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	0.828	0.453	-	0.453	0.071	0.171	0.053	0.014	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
The programs funded under Submarine Broadcast Support were established to improve the reliability, availability, maintainability, efficiency and performance of the Very Low Frequency (VLF) and Low Frequency (LF) submarine broadcast systems. These transmission mediums, VLF/LF, comprise the primary line of Fleet Ballistic Missile Nuclear Command, Control and Communication (NC3) Navy Modernized Hybrid Solution (NMHS) [formerly Nuclear Command, Control and Communications (NC3)]. Fixed Submarine Broadcast System (FSBS) sites are Emergency Action Message relay points providing primary connectivity between the President of the United States (POTUS) and Ohio Class Ballistic Missile (SSBN) submarines.												
[P5 / W4009 Low Band Universal Communications System (LBUCS), Receive]: LBUCS will upgrade receive subsystems of Fixed Submarine Broadcast Systems (FSBS), which are approaching their operational end of life. LBUCS will ensure operational capability through the Very Low Frequency (VLF) architecture by providing system life extension and flexibility of submarine broadcast traffic to submarines operating in a stealth posture.												
[P5 / W4010 - Nuclear Command, Control and Communication (NC3) Navy Modernized Hybrid Solution (NMHS)]: Nuclear Command, Control and Communication (NC3) Navy Modernized Hybrid Solution (NMHS) formerly Messaging NC3 Navy Information eXchange Terminal (NIXT) will provide accurate and reliable delivery of time-critical messages for command and control of nuclear forces in a pre-attack environment for force direction, force management, situation monitoring and planning. NC3 NMHS Nova/NIXT will upgrade the Nova hubsites, backbone and procure and field the NIXT to replace end-of-life legacy user terminals at shore communications stations.												
[P5 / W4011 Submarine Operating Authority (SUBOPAUTH)]: SUBOPAUTH will modernize and standardize the aging command, control, and communication (C3) infrastructure and several critical C3 systems at the four regional SUBOPAUTH Broadcast Control Authority (BCA) sites.												
[P5 / W4012 Take Charge and Move Out (TACAMO)]: TACAMO's primary mission is to receive, verify, and retransmit Emergency Action Messages (EAM) to United States strategic submarine forces. The TACAMO Ground Communication Programs will acquire the necessary fixed and mobile communications equipment to support the TACAMO mission.												
[P3A / W4008 Transmission Equipment]: Transmission Equipment program will modernize the aging and obsolete components of the submarine broadcast transmission system, which includes antenna and transmitter towers located at the Broadcast Transmitter Stations (BTS).												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 12: Submarine Communications		P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
[P3A - 2 / W4009 Low Band Universal Communications System (LBUCS) Transmit]: LBUCS Transmit will modernize the transmit subsystem hardware, software and waveform components at Broadcast Transmitter Stations (BTS) and Broadcast Control Authority (BCA) sites including the Very Low Frequency (VLF) Broadcast Builder, AN/URT-30B Integrated VLF Transmit Terminal (IVTT), IVTT Proxy, the MD-1310, MD-1315, and MD-1316 Modulators, and the North Atlantic Treaty Organization (NATO) Interoperable Submarine Broadcast System (NISBS).		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 12: Submarine Communications				P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Submarine Broadcast Support	P-5, P-5a		- / 1.578	- / 5.887	- / 2.306	- / 1.898	- / -	- / 1.898
1 / W4008 Transmission Equipment ()	P-3a		- / 13.165	- / -	- / 4.928	- / 9.257	- / -	- / 9.257
2 / W4009 Low Band Universal Communications System (LBUCS) Transmit ()	P-3a		- / 0.000	- / 1.969	- / 3.823	- / 9.536	- / -	- / 9.536
Total Gross/Weapon System Cost			- / 14.743	- / 7.856	- / 11.057	- / 20.691	- / -	- / 20.691
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / Submarine Broadcast Support	P-5, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / W4008 Transmission Equipment ()	P-3a		- / 2.625	- / 8.686	- / 9.268	- / 11.692	- / -	- / 59.621
2 / W4009 Low Band Universal Communications System (LBUCS) Transmit ()	P-3a		- / 5.651	- / 1.229	- / -	- / -	- / -	- / 22.208
Total Gross/Weapon System Cost			- / 24.805	- / 29.165	- / 28.770	- / 29.539	Continuing	Continuing
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.								
Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.								

Justification:

The FY 2016 funding request was reduced by \$2.0 million to account for the availability of prior year execution balances.

LBUCS Transmit: FY16 funding will provide for the procurement of LBUCS Transmit units for five Broadcast Transmitter Station (BTS) and three Broadcast Control Authority (BCA) locations.

Transmission Equipment: FY16 funding will provide for the three procurements and one installation at two different BTS site locations.

Take Charge and Move Out (TACAMO): FY16 funding will procure fixed and mobile communications equipment to support the TACAMO mission.

Nuclear Command, Control and Communication (NC3) Navy Modernized Hybrid Solution (NMHS) [formerly Nuclear Command, Control and Communications (NC3)]: FY16 funding will provide for the procurement and installation of Nuclear Command, Control and Communication (NC3) Navy Modernized Hybrid Solution (NMHS) systems.

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Exhibit P-5, Cost Analysis: PB 2016 Navy								Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support				Item Number / Title [DODIC]: 1 / Submarine Broadcast Support										
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)		1.578	5.887	2.306	1.898	-	1.898	-	-	-	-	-	-					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) (\$ in Millions)		1.578	5.887	2.306	1.898	-	1.898	-	-	-	-	-	-					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		1.578	5.887	2.306	1.898	-	1.898	-	-	-	-	-	-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-	-	-	-	-	-	-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - W4010 - Nuclear Command, Control and Communication (NC3) Navy Modernized Hybrid Solution (NMHS) Cost																		
Recurring Cost																		
3.1.1) Nova Equipment ^(†) (1)	-	-	0.000	206.000	5	1.030	-	-	-	460.000	2	0.920	-	-	-	460.000	2	0.920
3.1.2) NIXT Equipment ^(†) (2)	19.220	50	0.961	35.556	45	1.600	39.333	3	0.118	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.961	-	-	2.630	-	-	0.118	-	-	0.920	-	-	-	-	-	0.920
Subtotal: Hardware - W4010 - Nuclear Command, Control and Communication (NC3) Navy Modernized Hybrid Solution (NMHS) Cost	-	-	0.961	-	-	2.630	-	-	0.118	-	-	0.920	-	-	-	-	-	0.920
Hardware - W4776 Ashore Installations Cost																		
Recurring Cost																		
4.1.1) Nova Installation	-	-	0.000	-	-	0.404	-	-	0.350	-	-	0.389	-	-	-	-	-	0.389
4.1.2) NIXT Installation	-	-	0.617	-	-	2.700	-	-	1.750	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.617	-	-	3.104	-	-	2.100	-	-	0.389	-	-	-	-	-	0.389
Subtotal: Hardware - W4776 Ashore Installations Cost	-	-	0.617	-	-	3.104	-	-	2.100	-	-	0.389	-	-	-	-	-	0.389
Hardware - W4012 Take Charge and Move Out (TACAMO) Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12						P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support						Item Number / Title [DODIC]: 1 / Submarine Broadcast 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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
7.1.1) W4012 Take Charge and Move Out (TACAMO) ⁽³⁾	-	-	0.000	-	-	-	-	-	-	506.000	1	0.506	-	-	-	506.000	1	0.506
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	-	-	-	0.506	-	-	-	-	-	0.506
Subtotal: Hardware - W4012 Take Charge and Move Out (TACAMO) Cost	-	-	0.000	-	-	-	-	-	-	-	-	0.506	-	-	-	-	-	0.506
Support - Support Cost																		
9.2) Nova Production Support	-	-	0.000	-	-	0.060	-	-	-	-	-	0.053	-	-	-	-	-	0.053
9.3) NIXT Production Support	-	-	0.000	-	-	0.093	-	-	0.088	-	-	-	-	-	-	-	-	-
9.5) TACAMO Production Support	-	-	0.000	-	-	-	-	-	-	-	-	0.030	-	-	-	-	-	0.030
Subtotal: Support - Support Cost	-	-	0.000	-	-	0.153	-	-	0.088	-	-	0.083	-	-	-	-	-	0.083
Gross/Weapon System Cost	-	-	1.578	-	-	5.887	-	-	2.306	-	-	1.898	-	-	-	-	-	1.898
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - W4010 - Nuclear Command, Control and Communication (NC3) Navy Modernized Hybrid Solution (NMHS) Cost																		
Recurring Cost																		
3.1.1) Nova Equipment ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) NIXT Equipment ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - W4010 - Nuclear Command, Control and Communication (NC3) Navy Modernized Hybrid Solution (NMHS) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - W4776 Ashore Installations Cost																		
Recurring Cost																		
4.1.1) Nova Installation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12							P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support						Item Number / Title [DODIC]: 1 / Submarine Broadcast Support					
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:							
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
4.1.2) NIXT Installation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - W4776 Ashore Installations Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - W4012 Take Charge and Move Out (TACAMO) Cost																		
Recurring Cost																		
7.1.1) W4012 Take Charge and Move Out (TACAMO)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - W4012 Take Charge and Move Out (TACAMO) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Support Cost																		
9.2) Nova Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.3) NIXT Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.5) TACAMO Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Remarks:																		
[Hardware/Recurring] Installation costs vary due to unique site configurations.																		
[Hardware] TACAMO contract data is unavailable. Classification is held at a higher level.																		
(†) indicates the presence of a P-5a																		
Footnotes:																		
(1) Unit cost fluctuation is due to procurement of variable systems to support Nova configurations.																		
(2) Unit cost fluctuation is due to procurement of variable systems to support NIXT configurations.																		
(3) The TACAMO program will procure a variety of fixed and mobile communications equipment to support the United States strategic submarine forces. Classification is held at a higher level.																		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12			P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support					Item Number / Title [DODIC]: 1 / Submarine Broadcast Support				
Cost Elements	OCO	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
3.1.1) Nova Equipment		2014	SSC PAC / San Diego, CA	C / FFP	SSC SD	Jan 2014	Feb 2014	5	206.000	Y		Nov 2013
3.1.1) Nova Equipment		2016	SSC PAC / San Diego, CA	C / FFP	SSC SD	Jan 2016	Feb 2016	2	460.000	Y		Nov 2015
3.1.2) NIXT Equipment		2014	SSC PAC / San Diego, CA	C / FFP	SSC SD	Feb 2014	Mar 2014	45	35.556	Y		Jun 2013
3.1.2) NIXT Equipment		2015	SSC PAC / San Diego, CA	C / FFP	SSC SD	Dec 2014	Jan 2015	3	39.333	Y		Jun 2014

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support					Modification Number / Title: 1 / W4008 Transmission Equipment			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	13.165	-	4.928	9.257	-	9.257	2.625	8.686	9.268	11.692	-	59.621
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	13.165	-	4.928	9.257	-	9.257	2.625	8.686	9.268	11.692	-	59.621
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	13.165	-	4.928	9.257	-	9.257	2.625	8.686	9.268	11.692	-	59.621
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Transmission Equipment program will modernize the aging and obsolete components of the submarine broadcast transmission system, which includes antenna and transmitter towers located at the Broadcast Transmitter Stations (BTS).												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support				Modification Number / Title: 1 / W4008 Transmission Equipment					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: W4008 Transmission Equipment													
A Kits													
Recurring													
1.1.1) Transmission Equipment - NonOrganic ⁽⁴⁾	4 / 10.357	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 10.357	
1.1.2) Bushings - NonOrganic ⁽⁵⁾	- / -	- / -	3 / 1.450	1 / 0.550	- / -	1 / 0.550	1 / 0.550	1 / 0.550	1 / 0.550	- / -	- / -	7 / 3.650	
1.1.3) Insulators - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.000	- / -	- / -	1 / 5.000	
1.1.4) Tower Lighting - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.290	- / -	2 / 0.500	- / -	- / -	3 / 0.790	
1.1.5) Tap Changer - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.850	- / -	- / -	2 / 1.850	
1.1.6) Power Amplifier Plate Regulator - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 7.250	- / -	- / -	- / -	2 / 7.250	
1.1.7) Helix Coils - NonOrganic	- / -	- / -	- / -	2 / 7.200	- / -	2 / 7.200	- / -	- / -	- / -	- / -	- / -	2 / 7.200	
1.1.8) Variable Tuning Elements - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 8.500	- / -	2 / 8.500	
1.1.9) Solid State Crowbar - NonOrganic	- / -	- / -	1 / 3.000	- / -	- / -	- / -	1 / 1.000	- / -	- / -	- / -	- / -	2 / 4.000	
Subtotal: Recurring	- / 10.357	- / -	- / 4.450	- / 7.750	- / -	- / 7.750	- / 1.840	- / 7.800	- / 7.900	- / 8.500	- / -	- / 48.597	
Subtotal: W4008 Transmission Equipment	4 / 10.357	- / -	4 / 4.450	3 / 7.750	- / -	3 / 7.750	3 / 1.840	3 / 7.800	6 / 7.900	2 / 8.500	- / -	25 / 48.597	
Subtotal: Procurement, All Modification Items	- / 10.357	- / -	- / 4.450	- / 7.750	- / -	- / 7.750	- / 1.840	- / 7.800	- / 7.900	- / 8.500	- / -	- / 48.597	
Support (All Modification Items)													
2.1) Transmission Equipment Production Support	- / 0.978	- / -	- / 0.108	- / 0.117	- / -	- / 0.117	- / -	- / 0.120	- / 0.144	- / 0.167	- / -	- / 1.634	
2.2) DSA Non Recurring	- / 0.000	- / -	- / 0.090	- / 0.090	- / -	- / 0.090	- / 0.085	- / 0.116	- / 0.124	- / 0.145	- / -	- / 0.650	
Subtotal: Support	- / 0.978	- / -	- / 0.198	- / 0.207	- / -	- / 0.207	- / 0.085	- / 0.236	- / 0.268	- / 0.312	- / -	- / 2.284	
Installation													
Modification Item 1 of 1: W4008 Transmission Equipment	- / 1.830	- / -	- / 0.280	- / 1.300	- / -	- / 1.300	- / 0.700	- / 0.650	- / 1.100	- / 2.880	- / -	- / 8.740	
Subtotal: Installation	- / 1.830	- / -	- / 0.280	- / 1.300	- / -	- / 1.300	- / 0.700	- / 0.650	- / 1.100	- / 2.880	- / -	- / 8.740	
Total													
Total Cost (Procurement + Support + Installation)	13.165	-	4.928	9.257	-	9.257	2.625	8.686	9.268	11.692	-	59.621	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12					P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support										Modification Number / Title: 1 / W4008 Transmission Equipment																
Modification Item 1 of 1: W4008 Transmission Equipment																															
Manufacturer Information																															
Manufacturer Name: SSC PAC ⁽⁶⁾													Manufacturer Location: San Diego, CA																		
Administrative Leadtime (in Months): 2													Production Leadtime (in Months): 11																		
Dates		FY 2014			FY 2015			FY 2016			FY 2017			FY 2018			FY 2019			FY 2020											
Contract Dates					Dec 2014			Dec 2015																							
Delivery Dates					Nov 2015			Nov 2016																							
Manufacturer Name: SSC LANT													Manufacturer Location: Charleston, SC																		
Administrative Leadtime (in Months): 2													Production Leadtime (in Months): 7																		
Dates		FY 2014			FY 2015			FY 2016			FY 2017			FY 2018			FY 2019			FY 2020											
Contract Dates					Feb 2015			Dec 2015																							
Delivery Dates					Sep 2015			Jul 2016																							
Installation Information																															
Method of Implementation: Alteration Installation Team:: Installation Name: Transmission Equipment																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		4 / 1.830	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.830																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		- / -	- / -	1 / 0.280	3 / 0.800	- / -	3 / 0.800	- / -	- / -	- / -	- / -	- / -	4 / 1.080																		
FY 2016		- / -	- / -	- / -	2 / 0.500	- / -	2 / 0.500	1 / 0.350	- / -	- / -	- / -	- / -	3 / 0.850																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.350	1 / 0.350	- / -	- / -	- / -	3 / 0.700																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.300	1 / 0.350	- / -	- / -	3 / 0.650																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.750	1 / 2.380	- / -	5 / 3.130																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.500	- / -	2 / 0.500																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		4 / 1.830	- / -	1 / 0.280	5 / 1.300	- / -	5 / 1.300	3 / 0.700	3 / 0.650	5 / 1.100	3 / 2.880	- / -	24 / 8.740																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	4	-	-	-	-	-	-	-	1	-	3	-	2	-	1	-	2	-	1	-	2	-	1	-	4	-	1	-	2	-	24
Out	4	-	-	-	-	-	-	-	-	1	-	3	-	2	-	1	-	2	-	1	-	2	-	1	-	4	-	1	-	2	24

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support	Modification Number / Title: 1 / W4008 Transmission Equipment

Footnotes:

⁽⁴⁾ Transmission Equipment funds the LaMoure modernization, bushings, insulators, antennas, transmitter towers, and other equipment used in Submarine Broadcast. Procurement and Installation unit costs vary due to unique equipment and site configurations. One bushing unit assigned as a rotatable pool to accommodate equipment refurbishment. No installation costs required.

(5) Transmission Equipment Bushings take longer to procure and integrate due to the complexity of each site.

(6) SSC PAC Contract for procurement of Bushings

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support	Modification Number / Title: 2 / W4009 Low Band Universal Communications System (LBUCS) Transmit

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	1.969	3.823	9.536	-	9.536	5.651	1.229	-	-	-	22.208
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	1.969	3.823	9.536	-	9.536	5.651	1.229	-	-	-	22.208
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	1.969	3.823	9.536	-	9.536	5.651	1.229	-	-	-	22.208
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

LBUCS Transmit will modernize the transmit subsystem hardware, software, and waveform components at Broadcast Transmitter Stations (BTS) and Broadcast Control Authority (BCA) sites including the Very Low Frequency (VLF) Broadcast Builder, AN/URT-30B Integrated VLF Transmit Terminal (IVTT), IVTT Proxy, the MD-1310, MD-1315, and MD-1316 Modulators, and the North Atlantic Treaty Organization (NATO) Interoperable Submarine Broadcast System (NISBS).

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support				Modification Number / Title: 2 / W4009 Low Band Universal Communications System (LBUCS) Transmit					
Models of Systems Affected: VLF Broadcast System				Modification Type:				Related RDT&E PEs: 0101402N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: W4009 Low Band Universal Communications System (LBUCS) Transmit													
A Kits													
Non-Recurring													
1.1.1) Broadcast Keying Station (BKS)/Broadcast Control Authority (BCA) - NonOrganic ⁽⁷⁾	- / -	2 / 1.062	2 / 1.100	20 / 8.400	- / -	20 / 8.400	6 / 2.850	- / -	- / -	- / -	- / -	30 / 13.412	
1.1.2) Broadcast Transmitter Station (BTS) - NonOrganic	- / -	4 / 0.498	- / -	10 / 0.940	- / -	10 / 0.940	12 / 1.320	- / -	- / -	- / -	- / -	26 / 2.758	
Subtotal: Non-Recurring	- / 0.000	- / 1.560	- / 1.100	- / 9.340	- / -	- / 9.340	- / 4.170	- / -	- / -	- / -	- / -	- / 16.170	
Subtotal: W4009 Low Band Universal Communications System (LBUCS) Transmit	- / -	6 / 1.560	2 / 1.100	30 / 9.340	- / -	30 / 9.340	18 / 4.170	- / -	- / -	- / -	- / -	56 / 16.170	
Subtotal: Procurement, All Modification Items	- / 0.000	- / 1.560	- / 1.100	- / 9.340	- / -	- / 9.340	- / 4.170	- / -	- / -	- / -	- / -	- / 16.170	
Support (All Modification Items)													
2.1) Production Support	- / -	- / 0.093	- / 0.182	- / 0.096	- / -	- / 0.096	- / 0.121	- / -	- / -	- / -	- / -	- / 0.492	
2.2) DSA Non Recurring ⁽⁸⁾	- / -	- / 0.213	- / 0.445	- / 0.100	- / -	- / 0.100	- / 0.100	- / -	- / -	- / -	- / -	- / 0.858	
2.3) Data Logistics ⁽⁹⁾	- / -	- / 0.103	- / 0.243	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.346	
2.4) Engineering Change Requests	- / -	- / -	- / 0.333	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.333	
Subtotal: Support	- / 0.000	- / 0.409	- / 1.203	- / 0.196	- / -	- / 0.196	- / 0.221	- / -	- / -	- / -	- / -	- / 2.029	
Installation													
Modification Item 1 of 1: W4009 Low Band Universal Communications System (LBUCS) Transmit	- / 0.000	- / -	- / 1.520	- / -	- / -	- / -	- / 1.260	- / 1.229	- / -	- / -	- / -	- / 4.009	
Subtotal: Installation	- / 0.000	- / -	- / 1.520	- / -	- / -	- / -	- / 1.260	- / 1.229	- / -	- / -	- / -	- / 4.009	
Total													
Total Cost (Procurement + Support + Installation)	0.000	1.969	3.823	9.536	-	9.536	5.651	1.229	-	-	-	22.208	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support	Modification Number / Title: 2 / W4009 Low Band Universal Communications System (LBUCS) Transmit

Modification Item 1 of 1: W4009 Low Band Universal Communications System (LBUCS) Transmit

Manufacturer Information

Manufacturer Name: SSC LANT (MAC) ⁽¹⁰⁾				Manufacturer Location: Charleston, SC			
Administrative Leadtime (in Months): 9				Production Leadtime (in Months): 10			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Sep 2014	Nov 2014	Jul 2016				
Delivery Dates	Jul 2015	Sep 2015	May 2017				

Installation Information

Method of Implementation: Alteration Installation Team:: Installation Name: Broadcast Control Authority & Broadcast Transmitter

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	6 / 1.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.020
FY 2015	- / -	- / -	2 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.500
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	30 / 1.260	- / -	- / -	- / -	- / -	30 / 1.260
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 1.229	- / -	- / -	- / -	18 / 1.229
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	8 / 1.520	- / -	- / -	- / -	30 / 1.260	18 / 1.229	- / -	- / -	- / -	56 / 4.009

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	10	10	10	-	6	6	6	-	-	-	-	-	-	-	-	56
Out	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	10	10	10	-	6	6	6	-	-	-	-	-	-	-	-	56

Footnotes:

⁽⁷⁾ Production costs for LBUCS equipment vary due to unique site configurations and mix of Continental United States (CONUS) and Outside the Continental United States (OCONUS) locations. Cost and duration for LBUCS Broadcast Control Authority (BCA) installations are greater than Broadcast Transmitter Stations (BTS) due to complexity of the BCA system. Install costs for BCA equipment vary due to unique site configuration and mix of CONUS and OCONUS locations. LBUCS Transmit equipment and cables will be installed in racks and must go through acceptance and integration testing prior to

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3107 / Submarine Broadcast Support	Modification Number / Title: 2 / W4009 Low Band Universal Communications System (LBUCS) Transmit

installation. Installation In/Out time frame reflects installation team and location availability. LBUCS Low Rate Initial Production (LRIP) units are more expensive to procure and install due to unique configuration of the receiving sites.

⁽⁸⁾ Design Services Allocation (DSA) funding supports development of installation drawings.

⁽⁹⁾ Data logistics funds the initial logistics package and deficiency corrections.

⁽¹⁰⁾ FY16 contract award pending Full Rate Production (FRP) decision in July 2016.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 12: Submarine Communications	P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	974.756	64.376	64.954	60.945	-	60.945	67.507	61.859	67.274	73.051	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	974.756	64.376	64.954	60.945	-	60.945	67.507	61.859	67.274	73.051	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	974.756	64.376	64.954	60.945	-	60.945	67.507	61.859	67.274	73.051	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.938	1.016	1.048	-	1.048	0.888	0.894	0.690	1.777	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

PROGRAM COVERAGE: The Submarine Communications Program mission is to create a common, automated, open system architecture radio room for all submarine classes. The program provides for the procurement and installation of systems incorporating the technical advances of network centric warfare to allow the submarine force to communicate as part of the Battle Group. The program addresses the unique demands of submarine communications, stealth, obsolescence issues and higher data rate requirements.

[P40A / L0035 Antenna Modifications]: - Antenna modifications provide for the procurement and installation of field change kits of legacy antenna equipment (Towed Buoy Antenna BRR-6/6B, OE-315, AN/ BRA-24, AN/BRA-6B, BRT-1/1A). These modifications address performance issues, improve reliability and maintainability, decrease vulnerability, and provide cost effective technology refresh. Modifications are applicable to all submarine classes (LOS ANGELES, SEAWOLF, OHIO SSBN/SSGN, and VIRGINIA) and are implemented on a Fleet priority basis.

[P40A / L0099 Towed Buoy Antenna BRR-6/6B Reliability Improvements]: - The Towed Buoy Antenna BRR-6/6B reliability improvements provide for the procurement and installation of field change kits of the Towed Buoy Antenna BRR-6/6B to improve system performance (measured by operational availability) and reliability (measured by mean time between failures); improvements are applicable to SSBN only.

[P3A / L0080 OE-538/BRC Inc 2]: OUTBOARD ELECTRONICS (OE)-538 & OE-592 ANTENNA GROUP - The OE-538 System is currently installed on all submarine classes. The Increment 2 effort upgrades the system to support emerging submarine communications requirements: Mobile User Objective System (MUOS), Link-16 Tactical Data Link and Iridium.

[P3A - 2 / L0087 Submarine High Data Rate Antenna]: SUBMARINE HIGH DATA RATE (SubHDR) SATELLITE COMMUNICATIONS SYSTEM - The Submarine HDR system provides submarines with antennas that have the bandwidth, gain, and flexibility to meet the stated Commander, Submarine Force, United States Atlantic Fleet/Commander, Submarine Force, US Pacific Fleet (COMSUBLANT/COMSUBPAC) requirements for HDR communications in the Super High Frequency (SHF) and Extremely High Frequency (EHF) frequency spectrums. The Radome provides a watertight enclosure for the antenna and associated electronics, as well as being a transparent window for Radio Frequency, (RF) communication signals to pass through. This radome needs to be replaced with a newly designed radome because the existing radome is experiencing severe cracking after only 3 to 4 years of service, at which time it is required to be pulled from service in order to prevent an implosion. This new design will prevent those cracks from occurring.

[P3A - 3 / L0084 CSRR-SSBN (OHIO)]: COMMON SUBMARINE RADIO ROOM (CSRR) (L0084) - The CSRR is a completely interoperable submarine communications system operating within the Information Dominance architecture, which provides consistent and reliable two-way, modern, Internet Protocol (IP) connectivity to joint and combined forces. This evolutionary system achieves unmatched capability, cost reduction, and future technology integration via a multimedia, circuit sharing, and Commercial Off-The-Shelf (COTS) based open architecture that serves as the shipboard automated communications control system. The CSRR provides a common functional External Communications System (ECS) baseline, as well as commonality of hardware and software across all submarine classes and is leveraged

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 12: Submarine Communications		P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
by the VIRGINIA Shipbuilding Conversion, Navy (SCN) program. Procurement in this line is for the radio room workstations, chassis, common power supplies, power distribution units, cabling, mounting kits and ancillary components required to integrate submarine communication equipment. The Radio Frequency Distribution and Control System (RFDACS) technology update brings COTS functionality and supportability to the Submarine antenna system. This procurement supports LOS ANGELES, SEAWOLF, VIRGINIA and OHIO (SSBN and SSGN) class submarines. [P3A - 8 / L0097 Submarine Local Area Network]: Provides a robust shipboard backbone Information Technology (IT) network with multiple classification enclaves that, along with the Common Submarine Radio Room (CSRR) and Automated Digital Network System (ADNS), provides end-to-end wideband connectivity to the global Defense Information System Networks (DISN) (Secret Internet Protocol Router Network and Nonclassified Internet Protocol Router Network). SubLAN is designed in accordance with the IT for the 21st Century fleet initiative, and thus SubLAN will support greatly improved connectivity to, and interoperability with, the carrier strike group (CSG) and expeditionary strike group (ESG) commander, thereby achieving network-centric warfare, and with shore commands. The SubLAN network is enhanced for mission-critical tactical applications, and as such SubLAN forms the medium that will interconnect Sonar, Combat, Electronic Surveillance Measures, Radio, etc., and permits the seamless exchange of warfighting tactical data between these systems and with the CSG/ESG commander. The SubLAN tactical backbone replicates the functionality of the United States Ship (USS) Virginia class network architecture, allowing back fit of VIRGINIA class tactical subsystem modernization into existing submarines. The SubLAN shipboard IT infrastructure is being designed as an all-COTS, open-system architecture such that it will permit other electronic subsystem programs to rely on SubLAN for subsystem interconnectivity (rather than having each subsystem install its own IT network); the revolutionary approach of treating the shipboard network as a basic utility (like water, power and lighting) will support the efficient and economic modernization of the various electronic subsystems.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 12: Submarine Communications	P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment

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

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Submarine Communication Equipment	P-40a, P-5a		- / 64.410	- / 0.992	- / 4.822	- / 2.697	- / -	- / 2.697
1 / L0080 OE-538/BRC Inc 2 (Individual Modification Program)	P-3a		- / 0.000	- / -	- / 7.319	- / 6.716	- / -	- / 6.716
2 / L0087 Submarine High Data Rate Antenna (Individual Modification Program)	P-3a		- / 386.618	- / 7.130	- / 3.282	- / 6.071	- / -	- / 6.071
3 / L0084 CSRR-SSBN (OHIO) ()	P-3a		- / 190.529	- / 12.237	- / 10.961	- / 10.426	- / -	- / 10.426
4 / L0084 CSRR-SSGN (OHIO) Mod Upgrades ()	P-3a		- / 26.790	- / 2.933	- / 4.455	- / -	- / -	- / -
5 / L0084 CSRR-SSN (SEAWOLF) ()	P-3a		- / 43.301	- / 6.004	- / 1.739	- / -	- / -	- / -
6 / L0084 CSRR-SSN (VIRGINIA) Mod Upgrades ()	P-3a		- / 36.102	- / 0.442	- / 10.472	- / 10.315	- / -	- / 10.315
7 / L0084 CSRR-SSN LOS ANGELES (LA) Mod Upgrades ()	P-3a		- / 96.871	- / 29.480	- / 18.367	- / 21.260	- / -	- / 21.260
8 / L0097 Submarine Local Area Network ()	P-3a		- / 130.135	- / 5.158	- / 3.537	- / 3.460	- / -	- / 3.460
Total Gross/Weapon System Cost			- / 974.756	- / 64.376	- / 64.954	- / 60.945	- / -	- / 60.945

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
Submarine Communication Equipment	P-40a, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / L0080 OE-538/BRC Inc 2 (Individual Modification Program)	P-3a		- / 15.857	- / 21.491	- / 21.466	- / 21.895	- / 37.271	- / 132.015
2 / L0087 Submarine High Data Rate Antenna (Individual Modification Program)	P-3a		- / 4.326	- / 3.407	- / 2.215	- / 3.551	- / -	- / 416.600
3 / L0084 CSRR-SSBN (OHIO) ()	P-3a		- / 13.037	- / 9.536	- / 3.168	- / 8.121	Continuing	Continuing
4 / L0084 CSRR-SSGN (OHIO) Mod Upgrades ()	P-3a		- / 0.743	- / 2.972	- / 1.680	- / 0.700	Continuing	Continuing
5 / L0084 CSRR-SSN (SEAWOLF) ()	P-3a		- / 3.236	- / 1.681	- / 1.089	- / 0.394	Continuing	Continuing
6 / L0084 CSRR-SSN (VIRGINIA) Mod Upgrades ()	P-3a		- / 6.796	- / 4.474	- / 8.184	- / 12.994	Continuing	Continuing
7 / L0084 CSRR-SSN LOS ANGELES (LA) Mod Upgrades ()	P-3a		- / 15.658	- / 5.416	- / 3.931	- / 3.929	Continuing	Continuing
8 / L0097 Submarine Local Area Network ()	P-3a		- / 3.544	- / 3.604	- / 3.689	- / 3.767	Continuing	Continuing
Total Gross/Weapon System Cost			- / 67.507	- / 61.859	- / 67.274	- / 73.051	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 add due to rounding.

Justification:

- FY16 Towed Buoy Antenna BRR-6/6B: Procure and install multiple field change kits to improve system performance (measured by operational availability) and reliability (measured by mean time between failure).
- FY16 CSRR: Implements CSRR on LOS ANGELES class submarines and modernizes CSRR on OHIO (SSBN and SSGN), SEAWOLF and VIRGINIA platforms.
- FY16 SubHDR: Continues procurement of new radomes to replace existing cracking radomes.
- FY16 OE-538: Procure upgrade kits to support submarine communications requirements: Mobile User Objective System (MUOS), Link-16 Tactical Data Link and Iridium.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12								P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment							Aggregated Items Title: Submarine Communication Equipment				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
1) L0035 Antenna Modifications																				
1.1) Antenna Modifications ^{(1)(†)}	A		154.807	140	21.673	59.400	10	0.594	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 1) L0035 Antenna Modifications			-	-	21.673	-	-	0.594	-	-	-	-	-	-	-	-	-	-	-	
2) CSRR - Support Systems Mod Kits (Increment 1 Ver 3, 4 & 5) ⁽²⁾																				
2.1) Kit Quantity	A		3,029.750	8	24.238	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.2) Equipment - Mod Kits Inc 1 Ver 3 ^{(3)(†)}	A		1,805.333	3	5.416	-	-	-	2,202.000	1	2.202	-	-	-	-	-	-	-	-	
2.3) Equipment - Mod Kits Inc 1 Ver 4 ^(†)	A		-	-	-	-	-	-	-	-	-	193.500	2	0.387	-	-	-	193.500	2	0.387
2.5) Equipment - MRTS	A		281.000	8	2.248	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.6) Support Equipment	A		-	-	1.827	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.7) Environmental Qual. Testing	A		-	-	3.834	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.8) ShipALT/EFR	A		-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.9) Production Support	A		-	-	0.371	-	-	-	-	-	0.132	-	-	0.023	-	-	-	-	-	0.023
2.10) Installation of Hardware	A		-	-	4.303	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) CSRR - Support Systems Mod Kits (Increment 1 Ver 3, 4 & 5)			-	-	42.737	-	-	-	-	-	2.334	-	-	0.410	-	-	-	-	-	0.410
3) L0099 Towed Buoy Antenna BRR-6/6B Reliability Improvements																				
3.1) Reliability Improvements ^{(4)(†)}	A		-	-	-	19.900	20	0.398	50.776	49	2.488	57.175	40	2.287	-	-	-	57.175	40	2.287
Subtotal: 3) L0099 Towed Buoy Antenna BRR-6/6B Reliability Improvements			-	-	0.000	-	-	0.398	-	-	2.488	-	-	2.287	-	-	-	-	-	2.287
Total			-	-	64.410	-	-	0.992	-	-	4.822	-	-	2.697	-	-	-	-	-	2.697

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
1) L0035 Antenna Modifications																				
1.1) Antenna Modifications ^{(1)(†)}	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12								P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment							Aggregated Items Title: Submarine Communication Equipment				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: 1) L0035 Antenna Modifications			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2) CSRR - Support Systems Mod Kits (Increment 1 Ver 3, 4 & 5) ⁽²⁾																				
2.1) Kit Quantity	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.2) Equipment - Mod Kits Inc 1 Ver 3 ^{(3)(†)}	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.3) Equipment - Mod Kits Inc 1 Ver 4 ^(†)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.5) Equipment - MRTS	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.6) Support Equipment	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.7) Environmental Qual. Testing	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.8) ShipALT/EFR	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.9) Production Support	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.10) Installation of Hardware	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 2) CSRR - Support Systems Mod Kits (Increment 1 Ver 3, 4 & 5)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3) L0099 Towed Buoy Antenna BRR-6/6B Reliability Improvements																				
3.1) Reliability Improvements ^{(4)(†)}	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 3) L0099 Towed Buoy Antenna BRR-6/6B Reliability Improvements			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Footnotes:

- ⁽¹⁾ Antenna Modifications quantities and unit costs vary based on system (e.g. Towed Buoy Antenna BRR-6, OE-315, BRA-24, etc.) and complexity of field change kits. Installation costs included in procurement (Turnkey).
- ⁽²⁾ CSRR modernization kit unit cost varies between versions due to different capabilities/configurations.
- ⁽³⁾ CSRR Reconfigurable lab assets for VIRGINIA/SEAWOLF, OHIO (SSBN and SSGN), LOS ANGELES modernization. Installation cost included in procurement (Turnkey).
- ⁽⁴⁾ Towed Buoy Antenna BRR-6/6B quantities and unit cost vary based on complexity of component field change kits. Installation costs included in procurement (Turnkey).

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12			P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment					Aggregated Items: Submarine Communication 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) L0035 Antenna Modifications												
1.1) Antenna Modifications ⁽¹⁾		2014	Unknown / Unknown	C / CPFF	NSWC Phil	Mar 2015	Jun 2015	10	59.400	Y		Jul 2014
2) CSRR - Support Systems Mod Kits (Increment 1 Ver 3, 4 & 5)												
2.2) Equipment - Mod Kits Inc 1 Ver ₃ ⁽³⁾		2015	SAIC / Charleston, SC	C / CPFF	SSC LANT	Jan 2015	Jan 2016	1	2,202.000	Y		Oct 2014
2.3) Equipment - Mod Kits Inc 1 Ver ₄		2016	SAIC / Charleston, SC	C / CPFF	SSC LANT	Jan 2016	Jan 2017	2	193.500	Y		Oct 2015
3) L0099 Towed Buoy Antenna BRR-6/6B Reliability Improvements												
3.1) Reliability Improvements ⁽⁴⁾		2014	SEA CON ⁽⁵⁾ / El Cajon	SS / FFP	NSWC Phil	Sep 2014	Nov 2014	20	19.900	Y		Jul 2014
3.1) Reliability Improvements ⁽⁴⁾		2015	General Dynamics IT / Philadelphia, PA	SS / FFP	NSWC Phil	Jan 2015	Oct 2015	49	50.776	Y		Jul 2013
3.1) Reliability Improvements ⁽⁴⁾		2016	Unknown - C / Unknown	C / FFP	NSWC Phil	Dec 2015	Jun 2016	40	57.175	Y		Nov 2015

Footnotes:

⁽⁵⁾ Manufacturer is providing stand-alone components that will be assembled in-house. Annual Production Rate is not quantifiable.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment					Modification Number / Title: 1 / L0080 OE-538/BRC Inc 2			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	7.319	6.716	-	6.716	15.857	21.491	21.466	21.895	37.271	132.015
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	7.319	6.716	-	6.716	15.857	21.491	21.466	21.895	37.271	132.015
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	7.319	6.716	-	6.716	15.857	21.491	21.466	21.895	37.271	132.015
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Installation of OUTBOARD ELECTRONICS (OE)-538 & OE-592 ANTENNA GROUP (OE-538)												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment				Modification Number / Title: 1 / L0080 OE-538/BRC Inc 2				
Models of Systems Affected:			Modification Type: Individual Modification Program					Related RDT&E PEs: 0604503N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: L0080 OE-538/BRC Inc 2												
B Kits												
Recurring												
1.1.1) Equipment - Increment 2 Upgrade Kits - NonOrganic ⁽⁶⁾	- / -	- / -	7 / 6.169	6 / 6.004	- / -	6 / 6.004	20 / 13.943	25 / 16.884	24 / 16.515	24 / 17.863	30 / 22.721	136 / 100.099
Subtotal: Recurring	- / 0.000	- / -	- / 6.169	- / 6.004	- / -	- / 6.004	- / 13.943	- / 16.884	- / 16.515	- / 17.863	- / 22.721	- / 100.099
Subtotal: L0080 OE-538/BRC Inc 2	- / -	- / -	7 / 6.169	6 / 6.004	- / -	6 / 6.004	20 / 13.943	25 / 16.884	24 / 16.515	24 / 17.863	30 / 22.721	136 / 100.099
Subtotal: Procurement, All Modification Items	- / 0.000	- / -	- / 6.169	- / 6.004	- / -	- / 6.004	- / 13.943	- / 16.884	- / 16.515	- / 17.863	- / 22.721	- / 100.099
Support (All Modification Items)												
2.1) Production Support	- / -	- / -	- / 0.450	- / 0.324	- / -	- / 0.324	- / 0.727	- / 0.908	- / 0.732	- / 0.896	- / 3.772	- / 7.809
2.2) ShipALT/DSA	- / -	- / -	- / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.700
2.3) Other (DSA)	- / -	- / -	- / -	- / 0.080	- / -	- / 0.080	- / 0.244	- / 0.650	- / 0.449	- / 0.458	- / 2.775	- / 4.656
Subtotal: Support	- / 0.000	- / -	- / 1.150	- / 0.404	- / -	- / 0.404	- / 0.971	- / 1.558	- / 1.181	- / 1.354	- / 6.547	- / 13.165
Installation												
Modification Item 1 of 1: L0080 OE-538/BRC Inc 2	- / 0.000	- / -	- / -	- / 0.308	- / -	- / 0.308	- / 0.943	- / 3.049	- / 3.770	- / 2.678	- / 8.003	- / 18.751
Subtotal: Installation	- / 0.000	- / -	- / -	- / 0.308	- / -	- / 0.308	- / 0.943	- / 3.049	- / 3.770	- / 2.678	- / 8.003	- / 18.751
Total												
Total Cost (Procurement + Support + Installation)	0.000	-	7.319	6.716	-	6.716	15.857	21.491	21.466	21.895	37.271	132.015

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12										P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment										Modification Number / Title: 1 / L0080 OE-538/BRC Inc 2											
Modification Item 1 of 1: L0080 OE-538/BRC Inc 2																															
Manufacturer Information																															
Manufacturer Name: Submarine Antenna Joint Venture															Manufacturer Location: Marion, MA & Manchester, NH																
Administrative Leadtime (in Months): 5															Production Leadtime (in Months): 12																
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates						Jul 2015				Mar 2016																					
Delivery Dates						Jul 2016				Mar 2017																					
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Equipment - Increment 2 Upgrade Kits																															
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2014		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2015		- / -		- / -		- / -		2 / 0.308		- / -		2 / 0.308		- / -		- / -		- / -		- / -		- / -		- / -		2 / 0.308					
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		6 / 0.943		- / -		- / -		- / -		- / -		- / -		6 / 0.943					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		19 / 3.049		- / -		- / -		- / -		- / -		19 / 3.049					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		23 / 3.770		- / -		- / -		- / -		23 / 3.770					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		16 / 2.678		- / -		- / -		16 / 2.678					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		21 / 3.558		- / -		21 / 3.558					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		25 / 4.445		- / -		25 / 4.445					
Total		- / -		- / -		- / -		2 / 0.308		- / -		2 / 0.308		6 / 0.943		19 / 3.049		23 / 3.770		16 / 2.678		46 / 8.003		- / -		112 / 18.751					
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	3	3	-	-	6	6	7	6	6	6	5	6	6	4	46	112
Out	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	3	3	-	-	6	6	7	6	6	6	5	6	6	4	46	112
Footnotes:																															
⁽⁶⁾ OE-538 Increment 2 upgrade kit cost includes incidental factory labor. Unit cost varies by submarine class. Twenty-four (24) OE-538 Increment 2 systems do not require platform installation funding. These systems include nineteen (19) rotatable pools, two (2) test assets for First Article Test, and three (3) lab assets (two (2) SSBN/SSGN ITF; one (1) LOS ANGELES ITF). Production starting in FY19 includes Global Positioning System (GPS) Anti-Jam (AJ) capability funded by PMW/A 170 Sea NAVWAR Program.																															

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment						Modification Number / Title: 2 / L0087 Submarine High Data Rate Antenna		
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	386.618	7.130	3.282	6.071	-	6.071	4.326	3.407	2.215	3.551	-	416.600
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	386.618	7.130	3.282	6.071	-	6.071	4.326	3.407	2.215	3.551	-	416.600
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	386.618	7.130	3.282	6.071	-	6.071	4.326	3.407	2.215	3.551	-	416.600
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Installation of Submarine High Data Rate Antenna (SubHDR)												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment				Modification Number / Title: 2 / L0087 Submarine High Data Rate Antenna					
Models of Systems Affected:				Modification Type: Individual Modification Program				Related RDT&E PEs: 0604503N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: L0087 Submarine High Data Rate Antenna													
B Kits													
Recurring													
1.1.1) Equipment - SubHDR - NonOrganic ⁽⁷⁾	80 / 236.424	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 236.424	
1.1.2) Installation Kits - Organic	53 / 8.777	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 8.777	
1.1.3) Kit Upgrades - Organic	- / 2.298	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.298	
1.1.4) GBS/SHF Kit Upgrades - NonOrganic ⁽⁸⁾	87 / 22.809	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	87 / 22.809	
1.1.5) GBS Kits - NonOrganic	20 / 0.718	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.718	
1.1.6) Replacement Radomes - NonOrganic ⁽⁹⁾	44 / 3.678	23 / 6.257	8 / 2.664	17 / 5.450	- / -	17 / 5.450	10 / 3.627	6 / 2.870	3 / 1.922	4 / 3.184	- / -	115 / 29.652	
1.1.7) Support Equipment - Organic	3 / 1.938	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.938	
Subtotal: Recurring	- / 276.642	- / 6.257	- / 2.664	- / 5.450	- / -	- / 5.450	- / 3.627	- / 2.870	- / 1.922	- / 3.184	- / -	- / 302.616	
Subtotal: L0087 Submarine High Data Rate Antenna	287 / 276.642	23 / 6.257	8 / 2.664	17 / 5.450	- / -	17 / 5.450	10 / 3.627	6 / 2.870	3 / 1.922	4 / 3.184	- / -	358 / 302.616	
Subtotal: Procurement, All Modification Items	- / 276.642	- / 6.257	- / 2.664	- / 5.450	- / -	- / 5.450	- / 3.627	- / 2.870	- / 1.922	- / 3.184	- / -	- / 302.616	
Support (All Modification Items)													
2.1) Production Support	- / 6.368	- / 0.284	- / 0.155	- / 0.185	- / -	- / 0.185	- / 0.215	- / 0.170	- / 0.113	- / 0.185	- / -	- / 7.675	
2.2) Other (DSA)	- / 5.831	- / 0.185	- / 0.223	- / 0.180	- / -	- / 0.180	- / 0.212	- / 0.207	- / 0.180	- / 0.182	- / -	- / 7.200	
Subtotal: Support	- / 12.199	- / 0.469	- / 0.378	- / 0.365	- / -	- / 0.365	- / 0.427	- / 0.377	- / 0.293	- / 0.367	- / -	- / 14.875	
Installation													
Modification Item 1 of 1: L0087 Submarine High Data Rate Antenna	- / 97.777	- / 0.404	- / 0.240	- / 0.256	- / -	- / 0.256	- / 0.272	- / 0.160	- / -	- / -	- / -	- / 99.109	
Subtotal: Installation	- / 97.777	- / 0.404	- / 0.240	- / 0.256	- / -	- / 0.256	- / 0.272	- / 0.160	- / -	- / -	- / -	- / 99.109	
Total													
Total Cost (Procurement + Support + Installation)	386.618	7.130	3.282	6.071	-	6.071	4.326	3.407	2.215	3.551	-	416.600	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment	Modification Number / Title: 2 / L0087 Submarine High Data Rate Antenna

Modification Item 1 of 1: L0087 Submarine High Data Rate Antenna

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Marlborough, MA
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Apr 2014	Apr 2015	Apr 2016				
Delivery Dates	Apr 2015	Apr 2016	Apr 2017				

Installation Information

Method of Implementation: [none specified]:: Installation Name: Submarine High Data Rate Antenna

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	177 / 97.777	31 / 0.404	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	208 / 98.181
FY 2014	- / -	- / -	15 / 0.240	8 / 0.128	- / -	8 / 0.128	- / -	- / -	- / -	- / -	- / -	23 / 0.368
FY 2015	- / -	- / -	- / -	8 / 0.128	- / -	8 / 0.128	- / -	- / -	- / -	- / -	- / -	8 / 0.128
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.272	- / -	- / -	- / -	- / -	17 / 0.272
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.160	- / -	- / -	- / -	10 / 0.160
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	177 / 97.777	31 / 0.404	15 / 0.240	16 / 0.256	- / -	16 / 0.256	17 / 0.272	10 / 0.160	- / -	- / -	- / -	266 / 99.109

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	164	-	3	3	10	12	9	10	6	6	6	4	3	3	-	3	6	8	-	3	6	1	-	-	-	-	-	-	-	-	266
Out	164	-	3	3	10	12	9	10	6	6	6	4	3	3	-	3	6	8	-	3	6	1	-	-	-	-	-	-	-	-	266

Method of Implementation (Organic): Organic - Installation Kits

Installation Quantity: 53

Method of Implementation (Organic): Not Installed - Support Equipment

Installation Quantity: 3

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment	Modification Number / Title: 2 / L0087 Submarine High Data Rate Antenna
Footnotes: (7) Ten (10) SubHDR systems do not require installation funding. These systems include: three (3) Land Base System assets, seven (7) units assigned as a rotatable pool to accommodate equipment refurbishment. Installation quantities include antenna and kit quantities. (8) Thirteen (13) GBS/SHF Kit procurements do not require installation funding. These kits are for the three (3) Land Base System assets, seven (7) units assigned as a rotatable pool, one (1) unit for spare, and two (2) units for Navy Multiband Terminal (NMT) program. (9) Radome costs for FY14 and following years are higher due to reduced quantity buys in those years, as well as higher escalation costs applied by the vendor. Contract specifies cost break for every five radomes purchased. Additional thirty five (35) antennas procured as follows: twenty-four (24) Ship Construction Navy (SCN) which are transitioning to Fleet Modernization Program (FMP); one (1) for spares; two (2) units for Navy Multi-Band Terminal (NMT) Program; and eight (8) SCN Virginia Class Flight III, resulting in a requirement for 115 Replacement Radomes, thirteen (13) of which do not require installation funds.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment					Modification Number / Title: 3 / L0084 CSRR-SSBN (OHIO)			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	190.529	12.237	10.961	10.426	-	10.426	13.037	9.536	3.168	8.121	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	190.529	12.237	10.961	10.426	-	10.426	13.037	9.536	3.168	8.121	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	190.529	12.237	10.961	10.426	-	10.426	13.037	9.536	3.168	8.121	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Installation of CSRR upgrades on SSBN (OHIO) Class submarines.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment				Modification Number / Title: 3 / L0084 CSRR-SSBN (OHIO)					
Models of Systems Affected:			Modification Type:					Related RDT&E PEs: 0604503N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: L0084 CSRR-SSBN (OHIO)													
B Kits													
Recurring													
1.1.1) Equipment - Baseline (Increment 1 Ver 0) - NonOrganic	14 / 101.697	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 101.697	
1.1.2) Equipment - Mod Kits Increment 1 Ver 1 - NonOrganic ⁽¹⁰⁾	13 / 6.727	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 6.727	
1.1.3) Equipment - RFDACS Mod Kits Increment 1 Ver 1 - NonOrganic	14 / 7.337	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 7.337	
1.1.4) Equipment - Mod Kits Increment 1 Ver 3 - NonOrganic ⁽¹¹⁾	3 / 5.702	3 / 5.873	2 / 4.033	2 / 4.154	- / -	2 / 4.154	4 / 8.557	- / -	- / -	- / -	Continuing	Continuing	
1.1.5) Equipment - Mod Kits Increment 1 Ver 4 - NonOrganic ⁽¹²⁾	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.030	3 / 0.771	3 / 0.794	4 / 1.091	Continuing	Continuing	
1.1.6) Equipment - Mod Kits Increment 1 Ver 5 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 4.675	Continuing	Continuing	
1.1.7) Equipment - RFDACS - Organic ⁽¹³⁾	15 / 11.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 11.016	
Subtotal: Recurring	- / 132.479	- / 5.873	- / 4.033	- / 4.154	- / -	- / 4.154	- / 9.587	- / 0.771	- / 0.794	- / 5.766	Continuing	Continuing	
Subtotal: L0084 CSRR-SSBN (OHIO)	59 / 132.479	3 / 5.873	2 / 4.033	2 / 4.154	- / -	2 / 4.154	8 / 9.587	3 / 0.771	3 / 0.794	6 / 5.766	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 132.479	- / 5.873	- / 4.033	- / 4.154	- / -	- / 4.154	- / 9.587	- / 0.771	- / 0.794	- / 5.766	Continuing	Continuing	
Support (All Modification Items)													
2.1) Engineering Nonrecurring	- / 3.166	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.166	
2.2) Production Facility Establishment	- / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.500	
2.3) ShipALT/DSA Nonrecurring ⁽¹⁴⁾	- / 4.080	- / 0.482	- / -	- / 0.450	- / -	- / 0.450	- / 0.450	- / -	- / 0.132	- / 0.150	Continuing	Continuing	
2.4) Enterprise Change Request ⁽¹⁵⁾	- / 3.753	- / 0.783	- / 0.649	- / 0.325	- / -	- / 0.325	- / 0.325	- / 0.649	- / 0.450	- / 0.405	Continuing	Continuing	
2.5) Data/Logistics ⁽¹⁶⁾	- / 4.352	- / 0.599	- / -	- / 0.472	- / -	- / 0.472	- / 0.325	- / -	- / 0.625	- / 0.450	Continuing	Continuing	
2.6) Production Support	- / 10.181	- / 0.447	- / 0.242	- / 0.249	- / -	- / 0.249	- / 0.454	- / 0.046	- / 0.048	- / 0.209	Continuing	Continuing	
2.7) Other (DSA Recurring)	- / 5.611	- / 1.038	- / 0.535	- / 0.526	- / -	- / 0.526	- / 0.437	- / 0.798	- / 0.446	- / 0.447	Continuing	Continuing	
Subtotal: Support	- / 32.643	- / 3.349	- / 1.426	- / 2.022	- / -	- / 2.022	- / 1.991	- / 1.493	- / 1.701	- / 1.661	Continuing	Continuing	
Installation													
Modification Item 1 of 1: L0084 CSRR-SSBN (OHIO)	- / 25.407	- / 3.015	- / 5.502	- / 4.250	- / -	- / 4.250	- / 1.459	- / 7.272	- / 0.673	- / 0.694	Continuing	Continuing	
Subtotal: Installation	- / 25.407	- / 3.015	- / 5.502	- / 4.250	- / -	- / 4.250	- / 1.459	- / 7.272	- / 0.673	- / 0.694	Continuing	Continuing	
Total													

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment					Modification Number / Title: 3 / L0084 CSRR-SSBN (OHIO)				
Models of Systems Affected:				Modification Type:					Related RDT&E PEs: 0604503N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)	
	Total Cost (Procurement + Support + Installation)	190.529	12.237	10.961	10.426	-	10.426	13.037	9.536	3.168	8.121	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12					P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment										Modification Number / Title: 3 / L0084 CSRR-SSBN (OHIO)																
Modification Item 1 of 1: L0084 CSRR-SSBN (OHIO)																															
Manufacturer Information																															
Manufacturer Name: SAIC ⁽¹⁷⁾												Manufacturer Location: Charleston, SC																			
Administrative Leadtime (in Months): 1												Production Leadtime (in Months): 12																			
Dates		FY 2014			FY 2015			FY 2016			FY 2017			FY 2018			FY 2019			FY 2020											
Contract Dates		Feb 2014			Jan 2015			Nov 2015																							
Delivery Dates		Feb 2015			Jan 2016			Nov 2016																							
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: SSBN Ohio																															
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total							
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)							
Prior Years		41 / 25.407		2 / 3.015		1 / 1.375		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		44 / 29.797							
FY 2014		- / -		- / -		3 / 4.127		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 4.127							
FY 2015		- / -		- / -		- / -		2 / 2.833		- / -		2 / 2.833		- / -		- / -		- / -		- / -		- / -		2 / 2.833							
FY 2016		- / -		- / -		- / -		1 / 1.417		- / -		1 / 1.417		1 / 1.459		- / -		- / -		- / -		- / -		2 / 2.876							
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		8 / 7.272		- / -		- / -		- / -		8 / 7.272							
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 0.673		- / -		- / -		3 / 0.673							
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		3 / 0.694		- / -		3 / 0.694							
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		Continuing		Continuing							
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		Continuing		Continuing							
Total		41 / 25.407		2 / 3.015		4 / 5.502		3 / 4.250		- / -		3 / 4.250		1 / 1.459		8 / 7.272		3 / 0.673		3 / 0.694		Continuing		Continuing							
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	41	-	-	2	-	-	-	-	-	4	-	1	1	1	-	-	1	-	1	4	3	-	1	-	-	2	1	-	-	8	71
Out	41	-	-	1	1	-	-	-	-	2	2	1	1	-	1	-	-	1	1	3	3	1	1	-	-	2	1	-	-	8	71
Method of Implementation (Organic): Organic - Equipment - RFDACS																									Installation Quantity: 15						
Footnotes: ⁽¹⁰⁾ Prior Years SSBN quantity reflected as 13 due to 1 SSBN Increment 1 Ver 1 being funded under Shipbuilding and Conversion, Navy (SCN).																															

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment	Modification Number / Title: 3 / L0084 CSRR-SSBN (OHIO)
(11) Quantities reflect alignment with fleet installation availabilities. The number and class of submarines available in any given year are very limited and consequently, the ability to shift installations from one submarine to another is often not possible. CSRR Inc 1 V3 price of cabling is not following the normal escalation rate due to copper price increases. Installation funds are required by the installing activity 3 months prior to the start of the installation. Installation of 1 mod kit delayed from FY13 to FY15 due to Fleet rescheduling of availability period. (12) CSRR modernization kit unit cost and installation cost varies between versions due to different capabilities/configurations. (13) RFDACS procured as a separate CSRR component but fielded as part of the CSRR Inc1 V0 Baseline installations. (14) Funding supports development of Government Furnished Information (GFI) package for the planning yard in the year prior to installation and preparation of ship installation drawings in the year of installation. (15) The Enterprise Change Request (ECR) is a configuration control process rigorously implemented for the approval of new baselines or for changes that impact baselines. (16) Funds the initial logistics package, consisting of multiple individual products, for each modernization baseline (version). The logistics package is funded in the year prior to and the year that the first modernization kit is procured for each CSRR version on each submarine class. (17) Production lead time for upgrade kits varies from 3 to 12 months depending on the contents of each kit and the specific components being modernized.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment					Modification Number / Title: 4 / L0084 CSRR-SSGN (OHIO) Mod Upgrades				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		26.790	2.933	4.455	-	-	-	0.743	2.972	1.680	0.700	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		26.790	2.933	4.455	-	-	-	0.743	2.972	1.680	0.700	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		26.790	2.933	4.455	-	-	-	0.743	2.972	1.680	0.700	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 Thousands)		-	-	-	-	-	-	-	-	-	-	-	-
Description: Installation of CSRR and upgrades on SSGN (OHIO) Class Submarines													

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment				Modification Number / Title: 4 / L0084 CSRR-SSGN (OHIO) Mod Upgrades					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0604503N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: L0084 CSRR-SSGN (OHIO) Mod Upgrades													
B Kits													
Recurring													
1.1.1) Equipment - Mod Kits Increment 1 Ver 1 - NonOrganic	4 / 4.384	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.384	
1.1.2) Equipment - Mod Kits Increment 1 Ver 2 - NonOrganic	4 / 0.231	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.231	
1.1.3) Equipment - Mod Kits Increment 1 Ver 3 - NonOrganic ⁽¹⁸⁾	3 / 6.313	- / -	1 / 2.254	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 8.567	
1.1.4) Equipment - Mod Kits Increment 1 Ver 4 - NonOrganic ⁽¹⁹⁾	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.030	- / -	- / -	- / -	4 / 1.030	
1.1.5) Support Equipment - Organic	- / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	
Subtotal: Recurring	- / 11.428	- / -	- / 2.254	- / -	- / -	- / -	- / -	- / 1.030	- / -	- / -	- / -	- / 14.712	
Subtotal: L0084 CSRR-SSGN (OHIO) Mod Upgrades	11 / 11.428	- / -	1 / 2.254	- / -	- / -	- / -	- / -	4 / 1.030	- / -	- / -	- / -	16 / 14.712	
Subtotal: Procurement, All Modification Items	- / 11.428	- / -	- / 2.254	- / -	- / -	- / -	- / -	- / 1.030	- / -	- / -	- / -	- / 14.712	
Support (All Modification Items)													
2.1) Enterprise Change Request/Nonrecurring ⁽²⁰⁾	- / 2.346	- / -	- / 0.447	- / -	- / -	- / -	- / -	- / 0.655	- / -	- / -	Continuing	Continuing	
2.2) ShipALT/DSA Nonrecurring ⁽²¹⁾	- / 1.621	- / -	- / -	- / -	- / -	- / -	- / 0.422	- / 0.650	- / -	- / 0.550	Continuing	Continuing	
2.3) Data/Logistics ⁽²²⁾	- / 3.617	- / -	- / -	- / -	- / -	- / -	- / 0.321	- / 0.575	- / -	- / 0.150	Continuing	Continuing	
2.4) Production Support	- / 1.107	- / -	- / 0.135	- / -	- / -	- / -	- / -	- / 0.062	- / -	- / -	Continuing	Continuing	
2.5) Other (DSA Recurring)	- / 0.804	- / 0.401	- / 0.351	- / -	- / -	- / -	- / -	- / -	- / 0.382	- / -	Continuing	Continuing	
Subtotal: Support	- / 9.495	- / 0.401	- / 0.933	- / -	- / -	- / -	- / 0.743	- / 1.942	- / 0.382	- / 0.700	Continuing	Continuing	
Installation													
Modification Item 1 of 1: L0084 CSRR-SSGN (OHIO) Mod Upgrades	- / 5.867	- / 2.532	- / 1.268	- / -	- / -	- / -	- / -	- / -	- / 1.298	- / -	- / -	- / 10.965	
Subtotal: Installation	- / 5.867	- / 2.532	- / 1.268	- / -	- / -	- / -	- / -	- / -	- / 1.298	- / -	- / -	- / 10.965	
Total													
Total Cost (Procurement + Support + Installation)	26.790	2.933	4.455	-	-	-	0.743	2.972	1.680	0.700	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment	Modification Number / Title: 4 / L0084 CSRR-SSGN (OHIO) Mod Upgrades

Modification Item 1 of 1: L0084 CSRR-SSGN (OHIO) Mod Upgrades

Manufacturer Information							
Manufacturer Name: SAIC ⁽²³⁾				Manufacturer Location: Charleston, SC			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Nov 2014					
Delivery Dates		Nov 2015					

Installation Information

Method of Implementation: [none specified]:: Installation Name: SSGN OHIO

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	9 / 5.867	2 / 2.532	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 8.399
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	1 / 1.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.268
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.298	- / -	- / -	4 / 1.298
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	9 / 5.867	2 / 2.532	1 / 1.268	- / -	- / -	- / -	- / -	- / -	4 / 1.298	- / -	- / -	16 / 10.965

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	8	-	-	1	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	16
Out	8	-	-	-	1	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	-	-	-	16

Footnotes:

⁽¹⁸⁾ Quantities reflect alignment with fleet installation availabilities. There are only 4 SSGN submarines in the Fleet. The number of SSGN submarines available in any given year are, therefore limited. The ability to shift installations from one submarine to another is often not possible. CSRR Inc 1 V3 price of cabling is not following the normal escalation rate due to copper price increases. Installation funds are required by the installing activity 3 months prior to the start of the installation.

⁽¹⁹⁾ CSRR modernization kit unit cost and installation cost varies between versions due to different capabilities/configurations.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment	Modification Number / Title: 4 / L0084 CSRR-SSGN (OHIO) Mod Upgrades
(20) The Enterprise Change Request (ECR) is a configuration control process rigorously implemented for the approval of new baselines or for changes that impact baselines. (21) Funding supports development of Government Furnished Information (GFI) package for the planning yard in the year prior to installation and preparation of ship installation drawings in the year of installation. (22) Funds the initial logistics package, consisting of multiple individual products, for each modernization baseline (version). The logistics package is funded in the year prior to and the year that the first modernization kit is procured for each CSRR version on each submarine class. (23) Production lead time for upgrade kits varies from 3 to 12 months depending on the contents of each kit and the specific components being modernized.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment					Modification Number / Title: 5 / L0084 CSRR-SSN (SEAWOLF)			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	43.301	6.004	1.739	-	-	-	3.236	1.681	1.089	0.394	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	43.301	6.004	1.739	-	-	-	3.236	1.681	1.089	0.394	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	43.301	6.004	1.739	-	-	-	3.236	1.681	1.089	0.394	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Installation of CSRR and upgrades on SSN 21, SSN 22 and SSN 23												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment				Modification Number / Title: 5 / L0084 CSRR-SSN (SEAWOLF)					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0604503N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: L0084 CSRR-SSN (SEAWOLF)													
B Kits													
Recurring													
1.1.1) Equipment - Baseline (Increment 1 Ver 0) - NonOrganic	2 / 21.504	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 21.504	
1.1.2) Equipment - Modernization Kits (Increment 1 Ver 1) - NonOrganic	3 / 2.550	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.550	
1.1.3) Equipment - Mod Kits Increment 1 Ver 2 - NonOrganic	2 / 2.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.400	
1.1.4) Equipment - Mod Kits Increment 1 Ver 3 - NonOrganic (24)	1 / 2.126	2 / 3.512	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 5.638	
1.1.5) Equipment - Mod Kits Increment 1 Ver 4 - NonOrganic (25)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.515	1 / 0.265	- / -	- / -	3 / 0.780	
Subtotal: Recurring	- / 28.580	- / 3.512	- / -	- / -	- / -	- / -	- / -	- / 0.515	- / 0.265	- / -	- / -	- / 32.872	
Subtotal: L0084 CSRR-SSN (SEAWOLF)	8 / 28.580	2 / 3.512	- / -	- / -	- / -	- / -	- / -	2 / 0.515	1 / 0.265	- / -	- / -	13 / 32.872	
Subtotal: Procurement, All Modification Items	- / 28.580	- / 3.512	- / -	- / -	- / -	- / -	- / -	- / 0.515	- / 0.265	- / -	- / -	- / 32.872	
Support (All Modification Items)													
2.1) Engineering Nonrecurring	- / 0.058	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.058	
2.2) ShipALT/DSA Nonrecurring (26)	- / 1.563	- / -	- / -	- / -	- / -	- / -	- / 0.420	- / 0.345	- / -	- / -	Continuing	Continuing	
2.3) Enterprise Change Request /Nonrecurring (27)	- / 1.715	- / 0.402	- / -	- / -	- / -	- / -	- / -	- / 0.395	- / 0.040	- / -	Continuing	Continuing	
2.4) Data/Logistics (28)	- / 1.825	- / -	- / -	- / -	- / -	- / -	- / 0.539	- / 0.395	- / -	- / -	Continuing	Continuing	
2.5) Production Support	- / 1.493	- / 0.211	- / -	- / -	- / -	- / -	- / -	- / 0.031	- / 0.016	- / -	Continuing	Continuing	
2.6) Other (DSA Recurring)	- / 1.962	- / 0.375	- / 0.190	- / -	- / -	- / -	- / 0.215	- / -	- / 0.100	- / 0.050	Continuing	Continuing	
Subtotal: Support	- / 8.616	- / 0.988	- / 0.190	- / -	- / -	- / -	- / 1.174	- / 1.166	- / 0.156	- / 0.050	Continuing	Continuing	
Installation													
Modification Item 1 of 1: L0084 CSRR-SSN (SEAWOLF)	- / 6.105	- / 1.504	- / 1.549	- / -	- / -	- / -	- / 2.062	- / -	- / 0.668	- / 0.344	- / -	- / 12.232	
Subtotal: Installation	- / 6.105	- / 1.504	- / 1.549	- / -	- / -	- / -	- / 2.062	- / -	- / 0.668	- / 0.344	- / -	- / 12.232	
Total													
Total Cost (Procurement + Support + Installation)	43.301	6.004	1.739	-	-	-	3.236	1.681	1.089	0.394	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12		P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment			Modification Number / Title: 5 / L0084 CSRR-SSN (SEAWOLF)

Modification Item 1 of 1: L0084 CSRR-SSN (SEAWOLF)

Manufacturer Information							
Manufacturer Name: SAIC ⁽²⁹⁾				Manufacturer Location: Charleston, SC			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	May 2014						
Delivery Dates	May 2015						

Installation Information

Method of Implementation: [none specified]:: Installation Name: SEAWOLF

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 6.105	1 / 1.504	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 7.609
FY 2014	- / -	- / -	1 / 1.549	- / -	- / -	- / -	1 / 2.062	- / -	- / -	- / -	- / -	2 / 3.611
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.668	- / -	- / -	2 / 0.668
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.344	- / -	1 / 0.344
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	7 / 6.105	1 / 1.504	1 / 1.549	- / -	- / -	- / -	1 / 2.062	- / -	2 / 0.668	1 / 0.344	- / -	13 / 12.232

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	7	-	-	1	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	13
Out	7	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	13

Footnotes:

⁽²⁴⁾ Quantities reflect alignment with fleet installation availabilities. Installation of 3rd of 3 mod kits (USS JIMMY CARTER) delayed from FY14 to FY17 due to Fleet rescheduling of availability period. The number and class of submarines available in any given year are very limited and consequently, the ability to shift installations from one submarine to another is often not possible. FY13 SEAWOLF Inc 1 V3 procurement cost is higher as the platform did not receive an Inc 1 V2 upgrade. Installation funds are required by the installing activity 3 months prior to the start of the installation.

⁽²⁵⁾ CSRR modernization kit unit cost and installation cost varies between versions due to different capabilities/configurations.

⁽²⁶⁾ Funding supports development of Government Furnished Information (GFI) package for the planning yard in the year prior to installation and preparation of ship installation drawings in the year of installation.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment	Modification Number / Title: 5 / L0084 CSRR-SSN (SEAWOLF)
⁽²⁷⁾ The Enterprise Change Request (ECR) is a configuration control process rigorously implemented for the approval of new baselines or for changes that impact baselines. ⁽²⁸⁾ Funds the initial logistics package, consisting of multiple individual products, for each modernization baseline (version). The logistics package is funded in the year prior to and the year that the first modernization kit is procured for each CSRR version on each submarine class. ⁽²⁹⁾ Production lead time for upgrade kits varies from 3 to 12 months depending on the contents of each kit and the specific components being modernized.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment					Modification Number / Title: 6 / L0084 CSRR-SSN (VIRGINIA) Mod Upgrades				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		36.102	0.442	10.472	10.315	-	10.315	6.796	4.474	8.184	12.994	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		36.102	0.442	10.472	10.315	-	10.315	6.796	4.474	8.184	12.994	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		36.102	0.442	10.472	10.315	-	10.315	6.796	4.474	8.184	12.994	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 Thousands)		-	-	-	-	-	-	-	-	-	-	-	-
Description: Installation of CSRR upgrades on VIRGINIA Class submarines													

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment				Modification Number / Title: 6 / L0084 CSRR-SSN (VIRGINIA) Mod Upgrades					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0604503N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: L0084 CSRR-SSN (VIRGINIA) Mod Upgrades													
B Kits													
Recurring													
1.1.1) Equipment - Mod Kits Increment 1 Ver 2 (FLT 1 & 2) - NonOrganic	4 / 4.872	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.872	
1.1.2) Equipment - Baseline upgrade Increment 1 Ver 3 - NonOrganic (30)	4 / 8.963	- / -	3 / 7.409	1 / 2.544	- / -	1 / 2.544	1 / 2.620	- / -	- / -	- / -	- / -	9 / 21.536	
1.1.3) Equipment - Mod Kits Increment 1 Ver 4 - NonOrganic (31)	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.258	1 / 0.265	2 / 0.546	5 / 1.407	Continuing	Continuing	
1.1.4) Equipment - Mod Kits Increment 1 Ver 5 - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 5.559	2 / 5.726	Continuing	Continuing	
Subtotal: Recurring	- / 13.835	- / -	- / 7.409	- / 2.544	- / -	- / 2.544	- / 2.878	- / 0.265	- / 6.105	- / 7.133	Continuing	Continuing	
Subtotal: L0084 CSRR-SSN (VIRGINIA) Mod Upgrades	8 / 13.835	- / -	3 / 7.409	1 / 2.544	- / -	1 / 2.544	2 / 2.878	1 / 0.265	4 / 6.105	7 / 7.133	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 13.835	- / -	- / 7.409	- / 2.544	- / -	- / 2.544	- / 2.878	- / 0.265	- / 6.105	- / 7.133	Continuing	Continuing	
Support (All Modification Items)													
2.1) Engineering Nonrecurring	- / 0.625	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.625	
2.2) Data/Logistics (32)	- / 1.984	- / -	- / -	- / 0.450	- / -	- / 0.450	- / 0.450	- / 0.580	- / 0.650	- / -	Continuing	Continuing	
2.3) ShipALT/DSA Nonrecurring (33)	- / 3.630	- / -	- / -	- / 0.350	- / -	- / 0.350	- / 0.450	- / 0.321	- / 0.125	- / -	Continuing	Continuing	
2.4) Enterprise Change Request (34)	- / 1.796	- / 0.442	- / 0.279	- / 0.254	- / -	- / 0.254	- / 0.478	- / 0.491	- / 0.500	- / -	Continuing	Continuing	
2.5) Production Support	- / 2.021	- / -	- / 0.350	- / 0.153	- / -	- / 0.153	- / 0.173	- / 0.016	- / 0.304	- / 0.305	Continuing	Continuing	
2.6) Other (DSA Recurring)	- / 1.206	- / -	- / 0.412	- / 0.317	- / -	- / 0.317	- / 0.222	- / 0.277	- / 0.176	- / 0.200	Continuing	Continuing	
Subtotal: Support	- / 11.262	- / 0.442	- / 1.041	- / 1.524	- / -	- / 1.524	- / 1.773	- / 1.685	- / 1.755	- / 0.505	Continuing	Continuing	
Installation													
Modification Item 1 of 1: L0084 CSRR-SSN (VIRGINIA) Mod Upgrades	- / 11.005	- / -	- / 2.022	- / 6.247	- / -	- / 6.247	- / 2.145	- / 2.524	- / 0.324	- / 5.356	Continuing	Continuing	
Subtotal: Installation	- / 11.005	- / -	- / 2.022	- / 6.247	- / -	- / 6.247	- / 2.145	- / 2.524	- / 0.324	- / 5.356	Continuing	Continuing	
Total													
Total Cost (Procurement + Support + Installation)	36.102	0.442	10.472	10.315	-	10.315	6.796	4.474	8.184	12.994	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12		P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment			Modification Number / Title: 6 / L0084 CSRR-SSN (VIRGINIA) Mod Upgrades		

Modification Item 1 of 1: L0084 CSRR-SSN (VIRGINIA) Mod Upgrades

Manufacturer Information							
Manufacturer Name: SAIC ⁽³⁵⁾				Manufacturer Location: Charleston, SC			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Jan 2015	Jan 2016				
Delivery Dates		Jan 2016	Jan 2017				

Installation Information

Method of Implementation: Method:: Installation Name: Virginia Class

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	7 / 11.005	- / -	1 / 2.022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 13.027
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	3 / 6.247	- / -	3 / 6.247	- / -	- / -	- / -	- / -	- / -	3 / 6.247
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.145	- / -	- / -	- / -	- / -	1 / 2.145
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.524	- / -	- / -	- / -	2 / 2.524
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.324	- / -	- / -	1 / 0.324
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.356	- / -	4 / 5.356
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Total	7 / 11.005	- / -	1 / 2.022	3 / 6.247	- / -	3 / 6.247	1 / 2.145	2 / 2.524	1 / 0.324	4 / 5.356	Continuing	Continuing

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	6	-	1	-	-	-	-	1	-	-	-	-	1	2	-	-	1	-	2	-	-	-	-	1	-	-	2	2	-	7	26
Out	6	-	-	1	-	-	-	-	1	-	-	-	-	1	2	-	-	1	-	2	-	-	-	-	1	-	-	2	2	7	26

Footnotes:

⁽³⁰⁾ Quantities reflect alignment with fleet installation availabilities. The number and class of submarines available in any given year are very limited and consequently, the ability to shift installations from one submarine to another is often not possible. CSRR Inc 1 V3 price of cabling is not following the normal escalation rate due to copper price increases. Installation funds are required by the installing activity 3 months prior to the start of the installation.

⁽³¹⁾ CSRR modernization kit unit cost and installation cost varies between versions due to different capabilities/configurations.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment	Modification Number / Title: 6 / L0084 CSRR-SSN (VIRGINIA) Mod Upgrades
⁽³²⁾ Funds the initial logistics package, consisting of multiple individual products, for each modernization baseline (version). The logistics package is funded in the year prior to and the year that the first modernization kit is procured for each CSRR version on each submarine class. ⁽³³⁾ Funding supports development of Government Furnished Information (GFI) package for the planning yard in the year prior to installation and preparation of ship installation drawings in the year of installation. ⁽³⁴⁾ The Enterprise Change Request (ECR) is a configuration control process rigorously implemented for the approval of new baselines or for changes that impact baselines. ⁽³⁵⁾ Production lead time for upgrade kits varies from 3 to 12 months depending on the contents of each kit and the specific components being modernized.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment					Modification Number / Title: 7 / L0084 CSRR-SSN LOS ANGELES (LA) Mod Upgrades			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	96.871	29.480	18.367	21.260	-	21.260	15.658	5.416	3.931	3.929	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	96.871	29.480	18.367	21.260	-	21.260	15.658	5.416	3.931	3.929	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	96.871	29.480	18.367	21.260	-	21.260	15.658	5.416	3.931	3.929	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: Installation of CSRR and upgrades on LOS ANGELES Class Submarines												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment				Modification Number / Title: 7 / L0084 CSRR-SSN LOS ANGELES (LA) Mod Upgrades					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0604503N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: L0084 CSRR-SSN LOS ANGELES (LA) Mod Upgrades													
B Kits													
Recurring													
1.1.1) Equipment - Mod Kits Increment 1 Ver 3 - NonOrganic ⁽³⁶⁾	17 / 55.670	6 / 22.560	2 / 7.695	4 / 15.956	- / -	4 / 15.956	1 / 4.109	- / -	- / -	- / -	- / -	30 / 105.990	
1.1.2) Equipment - Mod Kits Increment 1 Ver 4 - NonOrganic ⁽³⁷⁾	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.258	6 / 1.541	4 / 1.058	3 / 0.818	Continuing	Continuing	
Subtotal: Recurring	- / 55.670	- / 22.560	- / 7.695	- / 15.956	- / -	- / 15.956	- / 4.367	- / 1.541	- / 1.058	- / 0.818	Continuing	Continuing	
Subtotal: L0084 CSRR-SSN LOS ANGELES (LA) Mod Upgrades	17 / 55.670	6 / 22.560	2 / 7.695	4 / 15.956	- / -	4 / 15.956	2 / 4.367	6 / 1.541	4 / 1.058	3 / 0.818	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 55.670	- / 22.560	- / 7.695	- / 15.956	- / -	- / 15.956	- / 4.367	- / 1.541	- / 1.058	- / 0.818	Continuing	Continuing	
Support (All Modification Items)													
2.1) Enterprise Change Request/Nonrecurring ⁽³⁸⁾	- / 2.819	- / 0.948	- / 0.379	- / 0.223	- / -	- / 0.223	- / 0.408	- / 0.455	- / -	- / 0.457	Continuing	Continuing	
2.2) ShipALT/DSA Nonrecurring ⁽³⁹⁾	- / 1.441	- / -	- / -	- / 0.257	- / -	- / 0.257	- / 0.607	- / -	- / -	- / 0.250	Continuing	Continuing	
2.3) Data/Logistics ⁽⁴⁰⁾	- / 2.000	- / -	- / -	- / 0.348	- / -	- / 0.348	- / 0.725	- / -	- / -	- / 0.251	Continuing	Continuing	
2.4) Production Support	- / 4.123	- / 1.399	- / 0.411	- / 0.514	- / -	- / 0.514	- / 0.262	- / 0.093	- / 0.060	- / 0.049	Continuing	Continuing	
2.5) Other (DSA Recurring) ⁽⁴¹⁾	- / 5.586	- / 1.578	- / 0.814	- / 0.784	- / -	- / 0.784	- / 0.941	- / 0.862	- / 0.866	- / 0.767	Continuing	Continuing	
Subtotal: Support	- / 15.969	- / 3.925	- / 1.604	- / 2.126	- / -	- / 2.126	- / 2.943	- / 1.410	- / 0.926	- / 1.774	Continuing	Continuing	
Installation													
Modification Item 1 of 1: L0084 CSRR-SSN LOS ANGELES (LA) Mod Upgrades	- / 25.232	- / 2.995	- / 9.068	- / 3.178	- / -	- / 3.178	- / 8.348	- / 2.465	- / 1.947	- / 1.337	Continuing	Continuing	
Subtotal: Installation	- / 25.232	- / 2.995	- / 9.068	- / 3.178	- / -	- / 3.178	- / 8.348	- / 2.465	- / 1.947	- / 1.337	Continuing	Continuing	
Total													
Total Cost (Procurement + Support + Installation)	96.871	29.480	18.367	21.260	-	21.260	15.658	5.416	3.931	3.929	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy				Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12		P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment			Modification Number / Title: 7 / L0084 CSRR-SSN LOS ANGELES (LA) Mod Upgrades		

Modification Item 1 of 1: L0084 CSRR-SSN LOS ANGELES (LA) Mod Upgrades

Manufacturer Information							
Manufacturer Name: SAIC ⁽⁴²⁾				Manufacturer Location: Charleston, SC			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	May 2014	Jan 2015	Jan 2016				
Delivery Dates	May 2015	Jan 2016	Jan 2017				

Installation Information

Method of Implementation: Method:: Installation Name: LA Class

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	15 / 25.232	2 / 2.995	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 28.227
FY 2014	- / -	- / -	6 / 9.068	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 9.068
FY 2015	- / -	- / -	- / -	2 / 3.178	- / -	2 / 3.178	- / -	- / -	- / -	- / -	- / -	2 / 3.178
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	4 / 8.348	- / -	- / -	- / -	- / -	4 / 8.348
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.465	- / -	- / -	- / -	2 / 2.465
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 1.947	- / -	- / -	6 / 1.947
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.337	- / -	4 / 1.337
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Total	15 / 25.232	2 / 2.995	6 / 9.068	2 / 3.178	- / -	2 / 3.178	4 / 8.348	2 / 2.465	6 / 1.947	4 / 1.337	Continuing	Continuing

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	10	1	1	2	1	1	-	3	1	3	-	-	1	1	1	1	2	-	2	-	-	-	2	2	1	1	-	2	2	3	44
Out	8	2	1	1	2	1	1	-	3	1	3	-	-	1	1	1	1	2	-	2	-	-	1	3	1	1	-	2	2	3	44

Footnotes:

⁽³⁶⁾ Quantities reflect alignment with fleet installation availabilities. The number and class of submarines available in any given year are very limited and consequently, the ability to shift installations from one submarine to another is often not possible. CSRR Inc 1 V3 price of cabling is not following the normal escalation rate due to copper price increases. Installation funds are required by the installing activity 3 months prior to the start of the installation.

⁽³⁷⁾ CSRR modernization kit unit cost and installation cost varies between versions due to different capabilities/configurations.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment	Modification Number / Title: 7 / L0084 CSRR-SSN LOS ANGELES (LA) Mod Upgrades
(38) The Enterprise Change Request (ECR) is a configuration control process rigorously implemented for the approval of new baselines or for changes that impact baselines. (39) Funding supports development of Government Furnished Information (GFI) package for the planning yard in the year prior to installation and preparation of ship installation drawings in the year of installation. (40) Funds the initial logistics package, consisting of multiple individual products, for each modernization baseline (version). The logistics package is funded in the year prior to and the year that the first modernization kit is procured for each CSRR version on each submarine class. (41) DSA Recurring Cost includes funding for CSRR planning yard activities. (42) Production lead time for upgrade kits varies from 3 to 12 months depending on the contents of each kit and the specific components being modernized.		

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment				Modification Number / Title: 8 / L0097 Submarine Local Area Network			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	130.135	5.158	3.537	3.460	-	3.460	3.544	3.604	3.689	3.767	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	130.135	5.158	3.537	3.460	-	3.460	3.544	3.604	3.689	3.767	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	130.135	5.158	3.537	3.460	-	3.460	3.544	3.604	3.689	3.767	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Installation of SubLAN Personal Computers (PC's) & Engine Room Drop Augment (ERDA), Propulsion Plant Monitoring System (PPMS)

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12				P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment				Modification Number / Title: 8 / L0097 Submarine Local Area Network				
Models of Systems Affected:			Modification Type:					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: L0097 Submarine Local Area Network												
B Kits												
Recurring												
1.1.1) Equipment - SubLAN - NonOrganic	9 / 30.379	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 30.379
1.1.2) Equipment - SubLAN PCs - Organic	66 / 5.749	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	66 / 5.749
1.1.3) SSN688 GFI/ShipALT - Organic	- / 10.390	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.390
1.1.4) SSN21 GFI/ShipALT - Organic	- / 5.709	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.709
1.1.5) SSBN GFI/ShipALT - Organic	- / 4.985	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.985
1.1.6) SSGN GFI/ShipALT - Organic	- / 4.963	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.963
1.1.7) SSN774 GFI/ShipALT - Organic	- / 2.143	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.143
1.1.8) Other Equipment - SIPR PKI - Organic	- / 1.067	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.067
1.1.9) Other Equipment - PC Augment - Organic	70 / 2.179	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	70 / 2.179
1.1.10) Other Equipment - ERDA - NonOrganic (43)	50 / 1.274	6 / 0.154	6 / 0.151	4 / 0.096	- / -	4 / 0.096	9 / 0.196	2 / 0.042	4 / 0.107	6 / 0.153	Continuing	Continuing
1.1.11) Other Equipment - PC Replacement - Organic (44)	36 / 3.132	18 / 2.490	- / -	- / -	- / -	- / -	- / -	5 / 0.695	9 / 1.177	- / -	Continuing	Continuing
1.1.12) Other Equipment - PPMS - NonOrganic	13 / 1.836	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
1.1.13) Support Equipment - EDM - Organic	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300
Subtotal: Recurring	- / 74.106	- / 2.644	- / 0.151	- / 0.096	- / -	- / 0.096	- / 0.196	- / 0.737	- / 1.284	- / 0.153	Continuing	Continuing
Subtotal: L0097 Submarine Local Area Network	244 / 74.106	24 / 2.644	6 / 0.151	4 / 0.096	- / -	4 / 0.096	9 / 0.196	7 / 0.737	13 / 1.284	6 / 0.153	Continuing	Continuing
Subtotal: Procurement, All Modification Items	- / 74.106	- / 2.644	- / 0.151	- / 0.096	- / -	- / 0.096	- / 0.196	- / 0.737	- / 1.284	- / 0.153	Continuing	Continuing
Support (All Modification Items)												
2.1) Production Support	- / 8.577	- / 0.086	- / 0.041	- / 0.043	- / -	- / 0.043	- / 0.060	- / 0.068	- / 0.100	- / 0.104	- / -	- / 9.079
2.2) Other (DSA)	- / 0.582	- / 0.100	- / 0.130	- / 0.125	- / -	- / 0.125	- / 0.156	- / 0.130	- / 0.104	- / 0.156	- / -	- / 1.483
Subtotal: Support	- / 9.159	- / 0.186	- / 0.171	- / 0.168	- / -	- / 0.168	- / 0.216	- / 0.198	- / 0.204	- / 0.260	- / -	- / 10.562
Installation												
Modification Item 1 of 1: L0097 Submarine Local Area Network	- / 46.870	- / 2.328	- / 3.215	- / 3.196	- / -	- / 3.196	- / 3.132	- / 2.669	- / 2.201	- / 3.354	- / -	- / 66.965
Subtotal: Installation	- / 46.870	- / 2.328	- / 3.215	- / 3.196	- / -	- / 3.196	- / 3.132	- / 2.669	- / 2.201	- / 3.354	- / -	- / 66.965
Total												
Total Cost (Procurement + Support + Installation)	130.135	5.158	3.537	3.460	-	3.460	3.544	3.604	3.689	3.767	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12		P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment			Modification Number / Title: 8 / L0097 Submarine Local Area Network

Modification Item 1 of 1: L0097 Submarine Local Area Network

Manufacturer Information

Manufacturer Name: NUWC Newport	Manufacturer Location: Newport, Rhode Island
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 3

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Mar 2014	Mar 2015	Mar 2016				

Installation Information

Method of Implementation: [none specified]:: Installation Name: SubLAN

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	72 / 46.870	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 46.870
FY 2014	- / -	4 / 2.328	2 / 1.072	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.400
FY 2015	- / -	- / -	4 / 2.143	2 / 1.074	- / -	2 / 1.074	- / -	- / -	- / -	- / -	- / -	6 / 3.217
FY 2016	- / -	- / -	- / -	4 / 2.122	- / -	4 / 2.122	- / -	- / -	- / -	- / -	- / -	4 / 2.122
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.132	3 / 1.601	- / -	- / -	- / -	9 / 4.733
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.068	- / -	- / -	- / -	2 / 1.068
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 2.201	- / -	- / -	4 / 2.201
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 3.354	- / -	6 / 3.354
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	72 / 46.870	4 / 2.328	6 / 3.215	6 / 3.196	- / -	6 / 3.196	6 / 3.132	5 / 2.669	4 / 2.201	6 / 3.354	- / -	109 / 66.965

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	72	-	-	-	3	1	2	-	3	1	2	-	4	-	-	-	6	-	1	1	1	2	-	-	4	-	-	-	6	-	109
Out	71	1	-	-	3	1	2	-	3	-	3	-	2	2	-	-	6	-	-	2	1	2	-	-	4	-	-	-	6	-	109

Method of Implementation (Organic): Organic - Equipment - SubLAN PCs																		Installation Quantity: 66									
Method of Implementation (Organic): Organic - Other Equipment - PC Augment																		Installation Quantity: 70									
Method of Implementation (Organic): Organic - Other Equipment - PC Replacement																		Installation Quantity: 68									

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 12	P-1 Line Item Number / Title: 3130 / Submarine Communication Equipment	Modification Number / Title: 8 / L0097 Submarine Local Area Network

Footnotes:

(43) SubLAN requires an additional 4 months after delivery for required pre-installation test and check out (PITCO) prior to installation start. Installs do not begin until 7 months after contract award (3 months PLT + 4 months PITCO).

(44) SubLAN Personal Computer (PC) Replacement procurement requires no installation funds.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 13: Satellite Communications							P-1 Line Item Number / Title: 3215 / Satellite Communications Systems					
ID Code (A=Service Ready, B=Not Service Ready) : A				Program Elements for Code B Items:				Other Related Program Elements:				
Line Item MDAP/MAIS Code: 237		Item MDAP/MAIS Code(s):										
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,176.953	27.381	11.453	30.892	-	30.892	15.286	7.485	10.878	11.113	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	1,176.953	27.381	11.453	30.892	-	30.892	15.286	7.485	10.878	11.113	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,176.953	27.381	11.453	30.892	-	30.892	15.286	7.485	10.878	11.113	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	0.294	2.398	1.254	-	1.254	0.169	1.569	0.226	0.083	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Satellite Communications (SATCOM) Systems P-1 line provides funds for procurement of shipboard terminal equipment for ship-to-ship, ship-to-shore and ship-to-aircraft tactical communications via earth orbiting relay satellites. This includes Radio Frequency (RF) equipment and baseband equipment assembled and grouped into systems and subsystems structured to address specific naval communications requirements. These systems provide processors and peripheral equipment that control the RF links for message traffic, direct data transfer and secure voice communications. They are selected and oriented by communications traffic levels, types of communications and operational missions.

[P5 / (NR107) Navy Extremely High Frequency Satellite Program (NESP)]: NESP provides joint interoperable core and hard-core communications at all levels of conflict with assured survivability under extreme conditions (i.e. Electromagnetic Anti-Jam (AJ), Low Probability of Intercept (LPI)/Low Probability of Detection (LPD), Physical, and Scintillation) via the Military Strategic and Tactical Relay System, Extra High Frequency (EHF) Follow On, Enhanced EHF, Interim Polar and Advanced EHF satellites. Time Division Multiple Access Interface Processor (TIP) is ancillary equipment to NESP and provides Internet Protocol (IP) networked communications over EHF Medium Data Rate waveforms. This capability enhances the NESP system by enabling afloat units to operate with a shore less architecture.

[P3A / (NR117) Global Broadcast Service (GBS)]: GLOBAL BROADCAST SERVICE (GBS - NR117): GBS is a Joint Military Satellite Communications (MILSATCOM) program with the Air Force as Executive Agent for all services. GBS provides a continuous, high speed, one way information flow of high volume data to units ashore, afloat or special operations. GBS supports routine operations, training and military exercises, special activities, crises, situational awareness, weapons targeting, reconnaissance and the transition to and conduct of opposed operations short of nuclear war. Deployment of GBS internet protocol (IP) terminals will allow expanded use of military intelligence collection in a broader spectrum using MILSATCOM architecture. The Navy GBS Split IP effort enables near-real-time duplex asymmetric communications connectivity to ships/subs. GBS plays a pivotal role in an Anti Access Area Denial (A2AD) scenario.

[P3A - 2 / (NR112) Commercial Broadband Satellite program (CBSP) - Afloat]: CBSP will support the procurement and installation of a commercial terminal and service architecture that will eventually replace the Inmarsat program (Inmarsat: PCs and Inmarsat B HSD: MCMs, DDGs, CGS) and Commercial Wideband Satellite Program (WSC-8 Large Decks). The associated architectures are designed to significantly increase the throughput of data to increase Satellite Communication (SATCOM) reliability for Military Satellite Communication (MILSATCOM). Included in the program are Small Ship Variant (SSV - Patrol Coastal or Mine Countermeasure Ships), Unit Level Variant (ULV - examples are Guided Missile Destroyers or Guided Missile Frigates), and Force Level Variant (FLV - large combatant ships such as carriers).

[P3A - 3 / (NR118) JMINI CS Shore]: The Joint Ultra-High Frequency (UHF) Military Satellite communication (MILSATCOM) Network Integrated Control System (JMINI CS) is a legacy system that commenced in 1998. JMINI CS is a Navy-led, Joint interest program providing integrated, dynamic, and centralized control of non-processed UHF MILSATCOM 5 and 25 kHz Demand Assigned Multiple Access (DAMA) and Demand Assigned Single Access (DASA) channels to maximize existing highly sought after SATCOM resources used to support operational strike missions as well as joint training and tactical exercises.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 13: Satellite Communications		P-1 Line Item Number / Title: 3215 / Satellite Communications Systems
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
Line Item MDAP/MAIS Code: 237	Item MDAP/MAIS Code(s):	
The system provides decentralized we-based management of those resources for use as a situational awareness tool for Combatant Commanders and SATCOM Support Centers. The JMINI CS is required to operate beyond the original End of Life (EoL) in 2015 in order to continue to support mission critical operations through at least 2033. The globally integrated system consists of three major subsystems: Network Management System, Satellite Access Controller and the control terminals. The JMINI CS system refresh effort will replace obsolete and unsupported components or subsystems while maintaining interoperability with existing systems. Design and integration efforts were funded with RDTEN. Funding increase in FY15-16 is for the procurement of hardware and software refresh of subsystems, including COTS/GOTS solutions, as well as integration, assembly, test, and installation activities.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 13: Satellite Communications					P-1 Line Item Number / Title: 3215 / Satellite Communications Systems			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Line Item MDAP/MAIS Code: 237			Item MDAP/MAIS Code(s):					

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Satellite Communications Systems	P-5, P-5a		- / 875.144	- / 7.191	- / -	- / -	- / -	- / -
1 / (NR117) Global Broadcast Service (GBS) ()	P-3a		- / 182.150	- / 5.878	- / 1.623	- / 16.323	- / -	- / 16.323
2 / (NR112) Commercial Broadband Satellite program (CBSP) - Afloat (upgrade)	P-3a		- / 114.521	- / 13.512	- / 3.283	- / 10.078	- / -	- / 10.078
3 / (NR118) JMINI CS Shore ()	P-3a		- / 5.138	- / 0.800	- / 6.547	- / 4.491	- / -	- / 4.491
Total Gross/Weapon System Cost			- / 1,176.953	- / 27.381	- / 11.453	- / 30.892	- / -	- / 30.892

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / Satellite Communications Systems	P-5, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / (NR117) Global Broadcast Service (GBS) ()	P-3a		- / 7.753	- / 3.296	- / 3.202	- / 3.271	- / 7.600	- / 231.096
2 / (NR112) Commercial Broadband Satellite program (CBSP) - Afloat (upgrade)	P-3a		- / 7.533	- / 4.189	- / 7.676	- / 7.842	Continuing	Continuing
3 / (NR118) JMINI CS Shore ()	P-3a		- / -	- / -	- / -	- / -	- / -	- / 16.976
Total Gross/Weapon System Cost			- / 15.286	- / 7.485	- / 10.878	- / 11.113	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 add due to rounding.

Justification:
 The FY 2016 funding request was reduced by \$3.6 million to account for the availability of prior year execution balances.

FY 2016 continues the procurement of Global Broadcast System (GBS) Portable Receive Terminals and Force Level Variant (FLV) Commercial Broadband Satellite Program (CBSP) terminals. Additionally, funding in FY16 is to accomplish JIPM installations.

FY16 OPN funding completes the JMINI System Refresh usable end item, as it provides for the completion of all installation activities at the 4 operational sites.

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Exhibit P-5, Cost Analysis: PB 2016 Navy								Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13				P-1 Line Item Number / Title: 3215 / Satellite Communications Systems					Item Number / Title [DODIC]: 1 / Satellite Communications Systems									
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)		875.144	7.191	-	-	-	-	-	-	-	-	-	-					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) (\$ in Millions)		875.144	7.191	-	-	-	-	-	-	-	-	-	-					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		875.144	7.191	-	-	-	-	-	-	-	-	-	-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-	-	-	-	-	-	-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - (NR106) SHF Terminal Cost																		
Recurring Cost																		
1.1.1) SHF: AN/GSC-52B Modernization of Enterprise Terminals (MET)	4,184.000	1	4.184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	4.184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (NR106) SHF Terminal Cost	-	-	4.184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (NR107) Navy Extremely High Frequency Satellite Program (NESP) Cost																		
Recurring Cost																		
2.1.1) NESP - Cipher Text TIP Upgrade Kit (Afloat)(†)	12,661.000	41	519.101	16.050	21	0.337	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) NESP - TIP Thin Line Upgrade Kit (Afloat)(†)	259.143	7	1.814	260.000	2	0.520	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	520.915	-	-	0.857	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (NR107) Navy Extremely High Frequency Satellite Program (NESP) Cost	-	-	520.915	-	-	0.857	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (NR112) Commercial Broadcast Satellite Program (CBSP) Ashore Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Navy											Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13						P-1 Line Item Number / Title: 3215 / Satellite Communications Systems						Item Number / Title [DODIC]: 1 / Satellite Communications Systems						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
Recurring Cost																		
3.1.1) CBSP Unit Level Variant (ULV)	-	-	1.376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) CBSP Force Level Variant (FLV) ⁽¹⁾	2,015.333	3	6.046	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	7.422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (NR112) Commercial Broadcast Satellite Program (CBSP) Ashore Cost	-	-	7.422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (NR127) Spectral Warrior (SW) / Spider Net (SN) Cost																		
Recurring Cost																		
4.1.1) SW/SN - Spectrum Analyzer System ⁽¹⁾	-	-	0.000	270.000	8	2.160	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.000	-	-	2.160	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (NR127) Spectral Warrior (SW) / Spider Net (SN) Cost	-	-	0.000	-	-	2.160	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (NR776) Non-FMP Installation (Shore) Cost																		
Recurring Cost																		
5.1.1) CBSP Ashore	-	-	1.452	-	-	0.950	-	-	-	-	-	-	-	-	-	-	-	-
5.1.2) SHF SATCOM - Shore	-	-	5.567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	7.019	-	-	0.950	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (NR776) Non-FMP Installation (Shore) Cost	-	-	7.019	-	-	0.950	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (NR777) FMP Installation (Ship) Cost																		
Recurring Cost																		
6.1.1) Navy Extremely High Frequency Satellite Program (NESP)	-	-	301.289	-	-	1.226	-	-	-	-	-	-	-	-	-	-	-	-
6.1.2) SW/SN - Spectral Analyzer System	-	-	0.000	-	-	1.500	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	301.289	-	-	2.726	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13						P-1 Line Item Number / Title: 3215 / Satellite Communications Systems							Item Number / Title [DODIC]: 1 / Satellite Communications Systems					
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Hardware - (NR777) FMP Installation (Ship) Cost	-	-	301.289	-	-	2.726	-	-	-	-	-	-	-	-	-	-	-	-
Support - (NR555) Production Support Cost																		
7.1) Super High Frequency (SHF)	-	-	0.267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.2) CBSP Ashore	-	-	0.629	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3) Navy Extremely High Frequency Satellite Program (NESP)	-	-	22.185	-	-	0.048	-	-	-	-	-	-	-	-	-	-	-	-
7.4) SW/SN - Spectrum Analyzer System	-	-	0.000	-	-	0.108	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - (NR555) Production Support Cost	-	-	23.081	-	-	0.156	-	-	-	-	-	-	-	-	-	-	-	-
Support - (NR776) Non-FMP Pre Installation Design Cost																		
8.1) CBSP Ashore	-	-	0.264	-	-	0.059	-	-	-	-	-	-	-	-	-	-	-	-
8.2) SHF SATCOM	-	-	0.260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - (NR776) Non-FMP Pre Installation Design Cost	-	-	0.524	-	-	0.059	-	-	-	-	-	-	-	-	-	-	-	-
Support - (NR777) FMP DSA (Ship) Cost																		
9.1) Navy Extremely High Frequency Satellite Program (NESP)	-	-	10.290	-	-	0.051	-	-	-	-	-	-	-	-	-	-	-	-
9.2) SW/SN - Spectral Analyzer System	-	-	0.000	-	-	0.232	-	-	-	-	-	-	-	-	-	-	-	-
9.3) SHF SATCOM	-	-	0.420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - (NR777) FMP DSA (Ship) Cost	-	-	10.710	-	-	0.283	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	875.144	-	-	7.191	-	-	-	-	-	-	-	-	-	-	-	-
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - (NR106) SHF Terminal Cost																		
Recurring Cost																		
1.1.1) SHF: AN/GSC-52B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13							P-1 Line Item Number / Title: 3215 / Satellite Communications Systems						Item Number / Title [DODIC]: 1 / Satellite Communications Systems					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	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)
Modernization of Enterprise Terminals (MET)																		
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (NR106) SHF Terminal Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (NR107) Navy Extremely High Frequency Satellite Program (NESP) Cost																		
Recurring Cost																		
2.1.1) NESP - Cipher Text TIP Upgrade Kit (Afloat) ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) NESP - TIP Thin Line Upgrade Kit (Afloat) ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (NR107) Navy Extremely High Frequency Satellite Program (NESP) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (NR112) Commercial Broadcast Satellite Program (CBSP) Ashore Cost																		
Recurring Cost																		
3.1.1) CBSP Unit Level Variant (ULV)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) CBSP Force Level Variant (FLV)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (NR112) Commercial Broadcast Satellite Program (CBSP) Ashore Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (NR127) Spectral Warrior (SW) / Spider Net (SN) Cost																		
Recurring Cost																		
4.1.1) SW/SN - Spectrum Analyzer System ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (NR127) Spectral Warrior (SW) / Spider Net (SN) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (NR776) Non-FMP Installation (Shore) Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13							P-1 Line Item Number / Title: 3215 / Satellite Communications Systems						Item Number / Title [DODIC]: 1 / Satellite Communications Systems					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	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)
5.1.1) CBSP Ashore	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.1.2) SHF SATCOM - Shore	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (NR776) Non-FMP Installation (Shore) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - (NR777) FMP Installation (Ship) Cost																		
Recurring Cost																		
6.1.1) Navy Extremely High Frequency Satellite Program (NESP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.1.2) SW/SN - Spectral Analyzer System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - (NR777) FMP Installation (Ship) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - (NR555) Production Support Cost																		
7.1) Super High Frequency (SHF)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.2) CBSP Ashore	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.3) Navy Extremely High Frequency Satellite Program (NESP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.4) SW/SN - Spectrum Analyzer System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - (NR555) Production Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - (NR776) Non-FMP Pre Installation Design Cost																		
8.1) CBSP Ashore	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.2) SHF SATCOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - (NR776) Non-FMP Pre Installation Design Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - (NR777) FMP DSA (Ship) Cost																		
9.1) Navy Extremely High Frequency Satellite Program (NESP)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13							P-1 Line Item Number / Title: 3215 / Satellite Communications Systems						Item Number / Title [DODIC]: 1 / Satellite Communications Systems					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	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)
9.2) SW/SN - Spectral Analyzer System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9.3) SHF SATCOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - (NR777) FMP DSA (Ship) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Footnotes:

(1) FY14 asset to be installed in FY15 due to 1-2 months integration time required prior to installation.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13			P-1 Line Item Number / Title: 3215 / Satellite Communications Systems					Item Number / Title [DODIC]: 1 / Satellite Communications Systems				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.1) NESP - Cipher Text TIP Upgrade Kit (Afloat)		2014	SSC PAC / San Diego, CA	Various	SSC-PAC	Dec 2013	Feb 2014	21	16.050	Y		
2.1.2) NESP - TIP Thin Line Upgrade Kit (Afloat)		2014	SSC PAC / San Diego, CA	Various	SSC-PAC	Dec 2013	Feb 2014	2	260.000	Y		
4.1.1) SW/SN - Spectrum Analyzer System		2014	RT LOGIC / Colorado Springs, Co	C / CPFF	SPAWAR	May 2014	Nov 2014	8	270.000	N	Nov 2013	Nov 2013

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13	P-1 Line Item Number / Title: 3215 / Satellite Communications Systems	Modification Number / Title: 1 / (NR117) Global Broadcast Service (GBS)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	182.150	5.878	1.623	16.323	-	16.323	7.753	3.296	3.202	3.271	7.600	231.096
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	182.150	5.878	1.623	16.323	-	16.323	7.753	3.296	3.202	3.271	7.600	231.096
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	182.150	5.878	1.623	16.323	-	16.323	7.753	3.296	3.202	3.271	7.600	231.096
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

GLOBAL BROADCAST SERVICE (GBS - NR117): GBS is a Joint Military Satellite Communications (MILSATCOM) program with the Air Force as Executive Agent for all services. GBS provides a continuous, high speed, one way information flow of high volume data to units ashore, afloat or special operations. GBS supports routine operations, training and military exercises, special activities, crises, situational awareness, weapons targeting, reconnaissance and the transition to and conduct of opposed operations short of nuclear war. Deployment of GBS internet protocol (IP) terminals will allow expanded use of military intelligence collection in a broader spectrum using MILSATCOM architecture. The Navy GBS Split IP effort enables near-real-time duplex asymmetric communications connectivity to ships/subs. GBS plays a pivotal role in an Anti Access Area Denial (A2AD) scenario.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13				P-1 Line Item Number / Title: 3215 / Satellite Communications Systems				Modification Number / Title: 1 / (NR117) Global Broadcast Service (GBS)					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: (NR117) Global Broadcast Service (GBS)													
B Kits													
Recurring													
1.1.1) Afloat Receive Terminal - NonOrganic ⁽²⁾	146 / 92.189	1 / 3.300	1 / 0.484	17 / 8.385	- / -	17 / 8.385	6 / 3.016	2 / 1.024	- / -	- / -	- / -	173 / 108.398	
1.1.2) Portable Receive Terminal - Organic ⁽³⁾	30 / 6.406	9 / 2.101	1 / 0.231	8 / 1.883	- / -	8 / 1.883	9 / 2.158	5 / 1.222	12 / 2.962	12 / 2.989	- / -	86 / 19.952	
1.1.3) Modem Upgrades - NonOrganic ⁽⁴⁾	120 / 10.744	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 10.744	
Subtotal: Recurring	- / 109.339	- / 5.401	- / 0.715	- / 10.268	- / -	- / 10.268	- / 5.174	- / 2.246	- / 2.962	- / 2.989	- / -	- / 139.094	
Subtotal: (NR117) Global Broadcast Service (GBS)	296 / 109.339	10 / 5.401	2 / 0.715	25 / 10.268	- / -	25 / 10.268	15 / 5.174	7 / 2.246	12 / 2.962	12 / 2.989	- / -	379 / 139.094	
Subtotal: Procurement, All Modification Items	- / 109.339	- / 5.401	- / 0.715	- / 10.268	- / -	- / 10.268	- / 5.174	- / 2.246	- / 2.962	- / 2.989	- / -	- / 139.094	
Support (All Modification Items)													
2.1) Production Support	- / 21.350	- / 0.302	- / 0.056	- / 0.471	- / -	- / 0.471	- / 0.249	- / 0.161	- / 0.240	- / 0.282	- / -	- / 23.111	
2.2) Shore Pre Installation Design	- / 0.264	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.264	
2.3) Afloat Receive Terminal DSA	- / 7.380	- / 0.175	- / 0.702	- / 1.094	- / -	- / 1.094	- / 0.617	- / 0.096	- / -	- / -	- / -	- / 10.064	
Subtotal: Support	- / 28.994	- / 0.477	- / 0.758	- / 1.565	- / -	- / 1.565	- / 0.866	- / 0.257	- / 0.240	- / 0.282	- / -	- / 33.439	
Installation													
Modification Item 1 of 1: (NR117) Global Broadcast Service (GBS)	- / 43.817	- / -	- / 0.150	- / 4.490	- / -	- / 4.490	- / 1.713	- / 0.793	- / -	- / -	- / 7.600	- / 58.563	
Subtotal: Installation	- / 43.817	- / -	- / 0.150	- / 4.490	- / -	- / 4.490	- / 1.713	- / 0.793	- / -	- / -	- / 7.600	- / 58.563	
Total													
Total Cost (Procurement + Support + Installation)	182.150	5.878	1.623	16.323	-	16.323	7.753	3.296	3.202	3.271	7.600	231.096	

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13										P-1 Line Item Number / Title: 3215 / Satellite Communications Systems										Modification Number / Title: 1 / (NR117) Global Broadcast Service (GBS)											
Modification Item 1 of 1: (NR117) Global Broadcast Service (GBS)																															
Manufacturer Information																															
Manufacturer Name: RAYTHEON													Manufacturer Location: Sterling, VA																		
Administrative Leadtime (in Months): 2													Production Leadtime (in Months): 5																		
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Dec 2014				Apr 2015				Dec 2015																					
Delivery Dates		Jul 2015				Sep 2015				May 2016																					
Manufacturer Name: Windmill International - Portable Recieve Terminals													Manufacturer Location: Nashua, NH																		
Administrative Leadtime (in Months): 2													Production Leadtime (in Months): 3																		
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
Contract Dates		Dec 2013				Dec 2014				Dec 2015																					
Delivery Dates		Mar 2014				Mar 2015				Mar 2016																					
Installation Information																															
Method of Implementation: [none specified]:: Installation Name: Afloat Receive Terminal																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	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)																
Prior Years		146 / 43.817	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	146 / 43.817																	
FY 2014		- / -	- / -	1 / 0.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.150																	
FY 2015		- / -	- / -	- / -	1 / 0.153	- / -	1 / 0.153	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.153																	
FY 2016		- / -	- / -	- / -	9 / 1.376	- / -	9 / 1.376	8 / 1.246	- / -	- / -	- / -	- / -	- / -	17 / 2.622																	
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.467	3 / 0.476	- / -	- / -	- / -	- / -	6 / 0.943																	
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.317	- / -	- / -	- / -	- / -	2 / 0.317																	
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																	
Total		146 / 43.817	- / -	1 / 0.150	10 / 1.529	- / -	10 / 1.529	11 / 1.713	5 / 0.793	- / -	- / -	- / -	- / -	173 / 48.002																	
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	146	-	-	-	-	-	-	-	1	-	1	-	4	5	4	4	3	3	-	-	2	-	-	-	-	-	-	-	-	-	173
Out	146	-	-	-	-	-	-	-	1	-	1	-	4	5	4	4	3	3	-	-	2	-	-	-	-	-	-	-	-	-	173

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13	P-1 Line Item Number / Title: 3215 / Satellite Communications Systems	Modification Number / Title: 1 / (NR117) Global Broadcast Service (GBS)

Modification Item 1 of 1: (NR117) Global Broadcast Service (GBS)

Installation Information

Method of Implementation: [none specified]:: Installation Name: Modem Upgrades

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	45 / 2.961	- / 0.000	45 / 2.961	- / -	- / -	- / -	- / -	75 / 7.600	120 / 10.561
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	45 / 2.961	- / -	45 / 2.961	- / -	- / -	- / -	- / -	75 / 7.600	120 / 10.561

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	120	
Out	-	-	-	-	-	-	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	120	

Method of Implementation (Organic): Not Installed - Portable Receive Terminal

Installation Quantity: 86

Footnotes:

⁽²⁾ NR117/NR777 (GBS) - Due to the requirement for installation funding to be in place 90 days prior to the start of the avail, 1st quarter installations are funded with prior year funds. FY14 GBS Afloat Terminal procurement price increase represents the first article buy and includes non-recurring engineering efforts, which is a one time expense.

⁽³⁾ NR117: GBS Portable Receive Terminals are turn-key and therefore do not have installation costs associated with them.

⁽⁴⁾ FY15/16 installations reflect updated fielding strategy for interim capability of the modem upgrade.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13				P-1 Line Item Number / Title: 3215 / Satellite Communications Systems					Modification Number / Title: 2 / (NR112) Commercial Broadband Satellite program (CBSP) - Afloat				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		114.521	13.512	3.283	10.078	-	10.078	7.533	4.189	7.676	7.842	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>		114.521	13.512	3.283	10.078	-	10.078	7.533	4.189	7.676	7.842	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		114.521	13.512	3.283	10.078	-	10.078	7.533	4.189	7.676	7.842	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Description: Commercial Broadband Satellite Program (CBSP) - Afloat - Provides commercial wideband SATCOM terminals supporting capabilities such as Automated Digital Multiplexing System (ADMS), telemedicine, official and unofficial phones, public affairs officer information, imagery, and Meteorology and Oceanography Command (METOC) communications.													

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13				P-1 Line Item Number / Title: 3215 / Satellite Communications Systems				Modification Number / Title: 2 / (NR112) Commercial Broadband Satellite program (CBSP) - Afloat				
Models of Systems Affected: Submarines, ships			Modification Type: upgrade					Related RDT&E PEs:				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: (NR112) Commercial Broadband Satellite program (CBSP) - Afloat												
B Kits												
Recurring												
1.1.1) Small Ship Variant (SSV) - NonOrganic	27 / 4.290	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 4.290
1.1.2) Unit Level Variant (ULV) - NonOrganic	30 / 28.482	1 / 1.994	- / -	- / -	- / -	- / -	- / -	- / -	5 / 5.108	3 / 3.126	Continuing	Continuing
1.1.3) Force Level Variant (FLV) - NonOrganic ⁽⁵⁾	15 / 23.970	2 / 4.024	- / -	5 / 7.146	- / -	5 / 7.146	2 / 4.320	1 / 1.922	- / -	- / -	- / -	25 / 41.382
Subtotal: Recurring	- / 56.742	- / 6.018	- / -	- / 7.146	- / -	- / 7.146	- / 4.320	- / 1.922	- / 5.108	- / 3.126	Continuing	Continuing
Subtotal: (NR112) Commercial Broadband Satellite program (CBSP) - Afloat	72 / 56.742	3 / 6.018	- / -	5 / 7.146	- / -	5 / 7.146	2 / 4.320	1 / 1.922	5 / 5.108	3 / 3.126	Continuing	Continuing
Subtotal: Procurement, All Modification Items	- / 56.742	- / 6.018	- / -	- / 7.146	- / -	- / 7.146	- / 4.320	- / 1.922	- / 5.108	- / 3.126	Continuing	Continuing
Support (All Modification Items)												
2.1) Training Equipment	- / 0.304	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.304
2.2) Engineering Change Orders	- / 0.648	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.648
2.3) Production Support	- / 9.180	- / 0.361	- / -	- / 0.428	- / -	- / 0.428	- / 0.216	- / 0.116	- / 0.255	- / 0.186	Continuing	Continuing
2.4) Other (DSA)	- / 8.822	- / 1.083	- / 0.723	- / 0.739	- / -	- / 0.739	- / 0.477	- / 0.366	- / 0.718	- / 0.780	Continuing	Continuing
Subtotal: Support	- / 18.954	- / 1.444	- / 0.723	- / 1.167	- / -	- / 1.167	- / 0.693	- / 0.482	- / 0.973	- / 0.966	Continuing	Continuing
Installation												
Modification Item 1 of 1: (NR112) Commercial Broadband Satellite program (CBSP) - Afloat	- / 38.825	- / 6.050	- / 2.560	- / 1.765	- / -	- / 1.765	- / 2.520	- / 1.785	- / 1.595	- / 3.750	- / -	- / 58.850
Subtotal: Installation	- / 38.825	- / 6.050	- / 2.560	- / 1.765	- / -	- / 1.765	- / 2.520	- / 1.785	- / 1.595	- / 3.750	- / -	- / 58.850
Total												
Total Cost (Procurement + Support + Installation)	114.521	13.512	3.283	10.078	-	10.078	7.533	4.189	7.676	7.842	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13										P-1 Line Item Number / Title: 3215 / Satellite Communications Systems										Modification Number / Title: 2 / (NR112) Commercial Broadband Satellite program (CBSP) - Afloat											
Modification Item 1 of 1: (NR112) Commercial Broadband Satellite program (CBSP) - Afloat																															
Manufacturer Information																															
Manufacturer Name: Harris - CBSP FLV													Manufacturer Location: Palm Beach, FL																		
Administrative Leadtime (in Months): 4													Production Leadtime (in Months): 6																		
Dates		FY 2014			FY 2015			FY 2016			FY 2017			FY 2018			FY 2019			FY 2020											
Contract Dates		Feb 2014						Feb 2016																							
Delivery Dates		Aug 2014						Aug 2016																							
Manufacturer Name: Harris - CBSP ULV													Manufacturer Location: Palm Beach, FL																		
Administrative Leadtime (in Months): 3													Production Leadtime (in Months): 6																		
Dates		FY 2014			FY 2015			FY 2016			FY 2017			FY 2018			FY 2019			FY 2020											
Contract Dates		Feb 2014																													
Delivery Dates		Aug 2014																													
Installation Information																															
Method of Implementation: Tiger Team:: Installation Name: Small Ship Variant (SSV), Unit Level Variant (ULV) and Force Level V																															
Installation Cost		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total																		
		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years		65 / 38.825	7 / 6.050	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 44.875																		
FY 2014		- / -	- / -	3 / 2.560	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.560																		
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		- / -	- / -	- / -	2 / 1.765	- / -	2 / 1.765	3 / 2.520	- / -	- / -	- / -	- / -	5 / 4.285																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.785	- / -	- / -	- / -	2 / 1.785																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.850	- / -	- / -	1 / 0.850																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.745	4 / 3.000	- / -	5 / 3.745																		
FY 2020		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.750	2 / -	3 / 0.750																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total		65 / 38.825	7 / 6.050	3 / 2.560	2 / 1.765	- / -	2 / 1.765	3 / 2.520	2 / 1.785	2 / 1.595	5 / 3.750	2 / -	91 / 58.850																		
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	65	2	3	2	-	-	1	1	1	-	-	-	-	2	2	1	-	-	2	-	-	-	1	-	-	1	4	-	1	2	91
Out	63	2	2	3	2	-	-	1	1	1	-	-	-	-	2	2	1	-	-	2	-	-	-	-	1	-	1	4	-	3	91

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13	P-1 Line Item Number / Title: 3215 / Satellite Communications Systems	Modification Number / Title: 2 / (NR112) Commercial Broadband Satellite program (CBSP) - Afloat

Footnotes:
(5) FLV terminals include a single and a dual antenna configuration which influences average unit cost.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13				P-1 Line Item Number / Title: 3215 / Satellite Communications Systems					Modification Number / Title: 3 / (NR118) JMINI CS Shore			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	5.138	0.800	6.547	4.491	-	4.491	-	-	-	-	-	16.976
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	5.138	0.800	6.547	4.491	-	4.491	-	-	-	-	-	16.976
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	5.138	0.800	6.547	4.491	-	4.491	-	-	-	-	-	16.976
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Joint Ultra-High Frequency (UHF) Military Satellite Communication (MILSATCOM) Network Integrated Control System (JMINI CS) is a legacy system that commenced in 1998. JMINI CS is a Navy-led, Joint interest program providing integrated, dynamic, and centralized control of non-processed UHF MILSATCOM 5 and 25 kHz Demand Assigned Multiple Access (DAMA) and Demand Assigned Single Access (DASA) channels to maximize existing highly sought after SATCOM resources used to support operational strike missions as well as joint training and tactical exercises. The system provides decentralized we-based management of those resources for use as a situational awareness tool for Combatant Commanders and SATCOM Support Centers. The JMINI CS is required to operate beyond the original End of Life (EoL) in 2015 in order to continue to support mission critical operations through at least 2033. The globally integrated system consists of three major subsystems: Network Management System, Satellite Access Controller and the control terminals. The JMINI CS system refresh effort will replace obsolete and unsupported components or subsystems while maintaining interoperability with existing systems. Design and integration efforts were funded with RDTEN. Funding increase in FY15-16 is for the procurement of hardware and software refresh of subsystems, including COTS/GOTS solutions, as well as installation activities.												

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13				P-1 Line Item Number / Title: 3215 / Satellite Communications Systems				Modification Number / Title: 3 / (NR118) JMINI CS Shore					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: (NR118) JMINI CS Shore													
B Kits													
Recurring													
1.1.1) JMINI Control System Shore - NonOrganic ⁽⁶⁾	- / 4.954	1 / 0.736	4 / 6.066	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 11.756	
Subtotal: Recurring	- / 4.954	- / 0.736	- / 6.066	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.756	
Subtotal: (NR118) JMINI CS Shore	- / 4.954	1 / 0.736	4 / 6.066	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 11.756	
Subtotal: Procurement, All Modification Items	- / 4.954	- / 0.736	- / 6.066	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.756	
Support (All Modification Items)													
2.1) Production Support	- / 0.184	- / 0.064	- / 0.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.665	
Subtotal: Support	- / 0.184	- / 0.064	- / 0.417	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.665	
Installation													
Modification Item 1 of 1: (NR118) JMINI CS Shore	- / 0.000	- / -	- / 0.064	- / 4.491	- / -	- / 4.491	- / -	- / -	- / -	- / -	- / -	- / 4.555	
Subtotal: Installation	- / 0.000	- / -	- / 0.064	- / 4.491	- / -	- / 4.491	- / -	- / -	- / -	- / -	- / -	- / 4.555	
Total													
Total Cost (Procurement + Support + Installation)	5.138	0.800	6.547	4.491	-	4.491	-	-	-	-	-	16.976	

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Exhibit P-3a, Individual Modification: PB 2016 Navy			Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13		P-1 Line Item Number / Title: 3215 / Satellite Communications Systems			Modification Number / Title: 3 / (NR118) JMINI CS Shore

Modification Item 1 of 1: (NR118) JMINI CS Shore

Manufacturer Information

Manufacturer Name: VIASAT ⁽⁷⁾	Manufacturer Location: Carlsbad, CA.
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 2

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2014	Jan 2015					
Delivery Dates	Jan 2015	Feb 2015					

Installation Information

Method of Implementation: Method:: Installation Name: JMINI CS

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	1 / 0.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.064
FY 2015	- / -	- / -	- / -	4 / 4.491	- / -	4 / 4.491	- / -	- / -	- / -	- / -	- / -	4 / 4.491
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 0.064	4 / 4.491	- / -	4 / 4.491	- / -	- / -	- / -	- / -	- / -	5 / 4.555

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	1	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Out	-	-	-	-	-	-	-	-	1	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5

Footnotes:

⁽⁶⁾ (a) JMINI quantity reflects the number of regions. (b) The FY16 installation cost is significantly higher due to the complexity of installing a modernized system that is not backwards compatible with the legacy JMINI system, creating additional operational cutover requirements and increasing the duration and overall cost of the effort.

⁽⁷⁾ Procurement in FY15 allows for a 15 month Intregation, Assembly, and Test activities to occur prior to installation in FY16. Due to the operational relevance of the system, rigorous acceptance test activities must occur prior to fully fielding the system.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 13: Satellite Communications							P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)					
ID Code (A=Service Ready, B=Not Service Ready) : A				Program Elements for Code B Items:				Other Related Program Elements:				
Line Item MDAP/MAIS Code: 290			Item MDAP/MAIS Code(s):									
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	436.573	183.620	247.617	118.113	-	118.113	47.315	78.186	106.653	93.633	101.633	1,413.343
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	436.573	183.620	247.617	118.113	-	118.113	47.315	78.186	106.653	93.633	101.633	1,413.343
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	436.573	183.620	247.617	118.113	-	118.113	47.315	78.186	106.653	93.633	101.633	1,413.343
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	5.073	2.277	0.143	-	0.143	0.125	0.167	-	-	-	7.785
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Navy Multiband Terminal (NMT) System provides funds for procurement of ship, submarine, and shore protected and wideband Military Satellite Communications (MILSATCOM) terminals via earth orbiting relay satellites in the Super High Frequency, Ka, and Extremely High Frequency (EHF) bands. The NMT provides warfighters with the assured, jam resistant, secure SATCOM for message traffic, data transfer and secure voice communications. These procurements are scheduled to meet the satellite communications requirements established by the Chief of Naval Operations in the Fleet Communications Planning and Programming documents. NAVY MULTIBAND TERMINAL (NMT - NS108): The NMT program is the next generation maritime military satellite communications terminal. The NMT Program is the required Navy component to the Advanced Extremely High Frequency (AEHF) Program for enhancing protected and survivable satellite communications to Naval forces. NMT multiband communication capabilities will communicate two way Ka-Band on Wideband Global SATCOM (WGS) and shipboard and submarine terminals to communicate with X-Band using the Defense Satellite Communications System and WGS. NMT is compatible with today's Navy Low Data Rate/Medium Data Rate terminals, X-Band terminals and will sustain the MILSATCOM architecture by providing connectivity across the spectrum of mission areas, to include land, air and naval warfare, special operations, strategic nuclear operations, strategic defense, theater missile defense, and space operations and intelligence. The NMT system will replenish and improve on the capabilities of both the Military Strategic and Tactical Relay System (MILSTAR) and WGS system by equipping the warfighters with the assured, jam resistant, secure communications as described in the Operational Requirements Document (Wideband Gapfiller System ORD, AFSPC ORD 004-99, May 3, 2000) for the joint AEHF Satellite Communications and WGS System. The NMT protected system AN/WSC-9 V (Variant) is comprised of three configurations for ships, submarines and shore sites known as Communication Groups. Terminal Communication Groups will integrate protected and wideband signal processing to multiband Antenna Groups. The Antenna Groups align to the specific Terminal Variant for ship, submarine and shore platforms and provides the SATCOM capabilities known as Q/Ka and X/Ka assigned to platforms. NMT includes the Advanced Time Division Multiple Access (TDMA) Interface Processor (IP) and supports increased data transfers for the Automated Digital Network System (ADNS) router architecture supporting improved Quality of Service (QoS) capability, smaller form factor and easier integration into operational environments, further supporting network user access to protected MILSATCOM connectivity.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 13: Satellite Communications					P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)		
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:		Other Related Program Elements:		
Line Item MDAP/MAIS Code: 290		Item MDAP/MAIS Code(s):					

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / 3216 Navy Multiband Terminal (NMT) - Afloat ()	P-3a		- / 409.103	- / 176.277	- / 229.288	- / 112.065	- / -	- / 112.065
2 / 3216 Navy Multiband Terminal (NMT) - Ashore ()	P-3a		- / 27.470	- / 7.343	- / 18.329	- / 6.048	- / -	- / 6.048
3 / 3216 NMT Wideband Anti-Jam Modem ()	P-3a		- / 0.000	- / -	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 436.573	- / 183.620	- / 247.617	- / 118.113	- / -	- / 118.113

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / 3216 Navy Multiband Terminal (NMT) - Afloat ()	P-3a		- / 43.469	- / 52.759	- / 56.808	- / 40.727	- / 35.283	- / 1,155.779
2 / 3216 Navy Multiband Terminal (NMT) - Ashore ()	P-3a		- / 3.846	- / 1.727	- / 15.845	- / 10.318	- / 7.500	- / 98.426
3 / 3216 NMT Wideband Anti-Jam Modem ()	P-3a		- / -	- / 23.700	- / 34.000	- / 42.588	- / 58.850	- / 159.138
Total Gross/Weapon System Cost			- / 47.315	- / 78.186	- / 106.653	- / 93.633	- / 101.633	- / 1,413.343

*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 add due to rounding.

Justification:
FY16 continues the procurement of full capability terminals and Advanced EHF Time Division Multiple Access Interface Processor (ATIP) on ship terminals procured in prior years. FY16 will complete fielding of X/Ka backfits.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13	P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)	Modification Number / Title: 1 / 3216 Navy Multiband Terminal (NMT) - Afloat

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	409.103	176.277	229.288	112.065	-	112.065	43.469	52.759	56.808	40.727	35.283	1,155.779
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	409.103	176.277	229.288	112.065	-	112.065	43.469	52.759	56.808	40.727	35.283	1,155.779
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	409.103	176.277	229.288	112.065	-	112.065	43.469	52.759	56.808	40.727	35.283	1,155.779
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

[Afloat Ship] Provides jam resistant, low probability of interception and detection for protected extended data rate communications with AEHF capability.

[Afloat Sub] Provides jam resistant, low probability of interception and detection for protected extended data rate communications with AEHF capability.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13				P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)						Modification Number / Title: 1 / 3216 Navy Multiband Terminal (NMT) - Afloat			
Models of Systems Affected: Shore stations, ships, submarines				Modification Type:				Related RDT&E PEs: 0303109N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> 3216 Navy Multiband Terminal (NMT) - Afloat													
B Kits													
Recurring													
1.1.1) Afloat Ship - NonOrganic ⁽¹⁾	82 / 250.141	22 / 79.627	12 / 66.855	6 / 33.564	- / -	6 / 33.564	2 / 17.591	3 / 20.065	7 / 35.214	2 / 12.031	2 / 14.900	138 / 529.988	
1.1.2) Afloat Sub - NonOrganic	47 / 37.529	19 / 20.325	- / -	6 / 9.561	- / -	6 / 9.561	- / -	- / -	1 / 1.100	4 / 5.182	- / -	77 / 73.697	
1.1.3) Production Support - Ship - NonOrganic	- / 11.154	- / 1.131	- / 4.089	- / 2.123	- / -	- / 2.123	- / 1.070	- / 1.233	- / 2.271	- / 0.756	- / 0.200	- / 24.027	
1.1.4) Production Support - Sub - NonOrganic	- / 2.448	- / 0.978	- / 0.098	- / 0.574	- / -	- / 0.574	- / -	- / -	- / 0.066	- / 0.311	- / -	- / 4.475	
1.1.5) Other DSA - Ship - NonOrganic	- / 14.903	- / 5.961	- / 5.229	- / 2.790	- / -	- / 2.790	- / 2.370	- / 1.744	- / 1.986	- / 1.322	- / 0.255	- / 36.560	
1.1.6) Other DSA - Sub - NonOrganic	- / 5.851	- / 0.319	- / 0.696	- / 0.568	- / -	- / 0.568	- / 0.145	- / 0.147	- / -	- / 0.048	- / 0.207	- / 7.981	
<i>Subtotal: Recurring</i>	- / 322.026	- / 108.341	- / 76.967	- / 49.180	- / -	- / 49.180	- / 21.176	- / 23.189	- / 40.637	- / 19.650	- / 15.562	- / 676.728	
<i>Subtotal: 3216 Navy Multiband Terminal (NMT) - Afloat</i>	129 / 322.026	41 / 108.341	12 / 76.967	12 / 49.180	- / -	12 / 49.180	2 / 21.176	3 / 23.189	8 / 40.637	6 / 19.650	2 / 15.562	215 / 676.728	
<i>Subtotal: Procurement, All Modification Items</i>	- / 322.026	- / 108.341	- / 76.967	- / 49.180	- / -	- / 49.180	- / 21.176	- / 23.189	- / 40.637	- / 19.650	- / 15.562	- / 676.728	
Installation													
<i>Modification Item 1 of 1:</i> 3216 Navy Multiband Terminal (NMT) - Afloat	- / 87.077	- / 67.936	- / 152.321	- / 62.885	- / -	- / 62.885	- / 22.293	- / 29.570	- / 16.171	- / 21.077	- / 19.721	- / 479.051	
<i>Subtotal: Installation</i>	- / 87.077	- / 67.936	- / 152.321	- / 62.885	- / -	- / 62.885	- / 22.293	- / 29.570	- / 16.171	- / 21.077	- / 19.721	- / 479.051	
Total													
Total Cost (Procurement + Support + Installation)	409.103	176.277	229.288	112.065	-	112.065	43.469	52.759	56.808	40.727	35.283	1,155.779	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13	P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)	Modification Number / Title: 1 / 3216 Navy Multiband Terminal (NMT) - Afloat

Modification Item 1 of 1: 3216 Navy Multiband Terminal (NMT) - Afloat

Manufacturer Information

Manufacturer Name: Raytheon				Manufacturer Location: Marlborough, MA			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 15			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jan 2014	Dec 2014					
Delivery Dates	Apr 2015	Mar 2016					
Manufacturer Name: New MFG - TBD				Manufacturer Location: New MFG - TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 15			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Jan 2016				
Delivery Dates			Apr 2017				
Manufacturer Name: COMTECH				Manufacturer Location: Tempe, AZ			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 3			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Sep 2014	Apr 2015	Jan 2016				
Delivery Dates	Dec 2014	Jul 2015	Apr 2016				

Installation Information

Method of Implementation: Method:: Installation Name: Navy Multiband Terminal (NMT) - Afloat

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	82 / 87.077	27 / 67.936	20 / 68.846	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	129 / 223.859
FY 2014	- / -	- / -	20 / 83.475	21 / 38.453	- / -	21 / 38.453	- / -	- / -	- / -	- / -	- / -	41 / 121.928
FY 2015	- / -	- / -	- / -	8 / 24.432	- / -	8 / 24.432	4 / 10.507	- / -	- / -	- / -	- / -	12 / 34.939
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	6 / 11.786	6 / 19.320	- / -	- / -	- / -	12 / 31.106
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 10.250	- / -	- / -	- / -	2 / 10.250
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 16.171	- / -	- / -	3 / 16.171
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 21.077	- / -	8 / 21.077
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 11.685	6 / 11.685
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 8.036	2 / 8.036
Total	82 / 87.077	27 / 67.936	40 / 152.321	29 / 62.885	- / -	29 / 62.885	10 / 22.293	8 / 29.570	3 / 16.171	8 / 21.077	8 / 19.721	215 / 479.051

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13	P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)	Modification Number / Title: 1 / 3216 Navy Multiband Terminal (NMT) - Afloat

Modification Item 1 of 1: 3216 Navy Multiband Terminal (NMT) - Afloat

Installation Information

Method of Implementation: Method:: Installation Name: Navy Multiband Terminal (NMT) - Afloat

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	77	5	12	8	4	3	16	9	9	6	21	4	4	-	4	2	4	-	3	5	-	-	-	3	-	-	-	5	3	8	215
Out	52	25	5	12	8	4	3	16	9	9	6	21	4	4	-	4	2	4	-	3	5	-	-	-	3	-	-	-	5	11	215

Footnotes:

(1) 1. FY16 completes fielding of X/Ka capability backfits on ship terminals previously procured. 2. FY16 and beyond procurements include the addition of the Advanced EHF Time Division Multiple Access Interface Processor (ATIP) and its backfits on terminals previously procured. 3. December 2014 NMT program awarded a Raytheon bridge contract that supported the procurement of FY15 planned terminals. 4. FY16 will include a new production contract. The Procurement Lead Time is anticipated to remain at 15 months to deliver the first terminal. Deliveries continue over a 12 month period with the last delivery occurring 27 months after award. For FY16, the anticipated delivery is planned from April 2017 to March 2018. 5. NMT procurement and installation costs will vary from year to year due to a different mix of platform variants and quantity of components procured each year as well as additional costs for X/Ka backfits and ATIP capability. Additionally, unit cost for procurements is also determined by contract quantity pricing at the total order level (ship/sub/shore). Large deck ships consist of 2 Terminal Communication Groups with 4, 5, or 6 antennas. The antenna mix ties to the specific configuration requirement for each ship. Small deck ships consist of 1 Terminal Communication Group with 2, 3, or 4 antennas. There are 13 variants of the NMT and antenna size varies by class (ranging from 54" to 96"). 6. Per Fleet Modernization Program (FMP) first quarter installations reflected in the Installation Schedule are funded in the prior year in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. 7. Installation cost fluctuations are attributed to and are dependent on class, configuration of the platform, and configuration of the NMT installed (single CG, dual CGs, Q/Ka, Q/X/Ka, 2-6 antenna configuration, shore, or submarine). For example, the estimated installation cost for a LHD 1 class (large deck) platform with dual Q/X/Ka capability is approximately four times greater than a DDG 51 class platform (small deck) with the same Q/X/Ka capability. Fielded platforms with the Q/Ka configuration require an X/Ka backfit, which has additional costs dependent on platform (large vs small deck). Installation unit cost decrease in FY16 is the result of fielding less costly X/Ka backfits compared to a baseline NMT installation.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13	P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)	Modification Number / Title: 2 / 3216 Navy Multiband Terminal (NMT) - Ashore

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	27.470	7.343	18.329	6.048	-	6.048	3.846	1.727	15.845	10.318	7.500	98.426
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	27.470	7.343	18.329	6.048	-	6.048	3.846	1.727	15.845	10.318	7.500	98.426
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	27.470	7.343	18.329	6.048	-	6.048	3.846	1.727	15.845	10.318	7.500	98.426
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

[Ashore] Provides jam resistant, low probability of interception and detection for protected extended data rate communications with AEHF capability.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13				P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)				Modification Number / Title: 2 / 3216 Navy Multiband Terminal (NMT) - Ashore					
Models of Systems Affected: Shore stations, ships, submarines				Modification Type:				Related RDT&E PEs: 0303109N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: 3216 Navy Multiband Terminal (NMT) - Ashore													
B Kits													
Recurring													
1.1.1) Ashore - NonOrganic ⁽²⁾	18 / 24.377	- / -	5 / 12.951	- / -	- / -	- / -	1 / 3.628	- / -	9 / 14.948	- / -	2 / 4.700	35 / 60.604	
1.1.2) Production Support - Ashore - Organic	- / 1.584	- / -	- / 0.730	- / -	- / -	- / -	- / 0.218	- / -	- / 0.897	- / -	- / 0.300	- / 3.729	
1.1.3) Other DSA - Ashore - Organic	- / 0.137	- / 0.668	- / 0.423	- / 0.550	- / -	- / 0.550	- / -	- / 0.157	- / -	- / 0.938	- / 0.227	- / 3.100	
Subtotal: Recurring	- / 26.098	- / 0.668	- / 14.104	- / 0.550	- / -	- / 0.550	- / 3.846	- / 0.157	- / 15.845	- / 0.938	- / 5.227	- / 67.433	
Subtotal: 3216 Navy Multiband Terminal (NMT) - Ashore	18 / 26.098	- / 0.668	5 / 14.104	- / 0.550	- / -	- / 0.550	1 / 3.846	- / 0.157	9 / 15.845	- / 0.938	2 / 5.227	35 / 67.433	
Subtotal: Procurement, All Modification Items	- / 26.098	- / 0.668	- / 14.104	- / 0.550	- / -	- / 0.550	- / 3.846	- / 0.157	- / 15.845	- / 0.938	- / 5.227	- / 67.433	
Installation													
Modification Item 1 of 1: 3216 Navy Multiband Terminal (NMT) - Ashore	- / 1.372	- / 6.675	- / 4.225	- / 5.498	- / -	- / 5.498	- / -	- / 1.570	- / -	- / 9.380	- / 2.273	- / 30.993	
Subtotal: Installation	- / 1.372	- / 6.675	- / 4.225	- / 5.498	- / -	- / 5.498	- / -	- / 1.570	- / -	- / 9.380	- / 2.273	- / 30.993	
Total													
Total Cost (Procurement + Support + Installation)	27.470	7.343	18.329	6.048	-	6.048	3.846	1.727	15.845	10.318	7.500	98.426	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13	P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)	Modification Number / Title: 2 / 3216 Navy Multiband Terminal (NMT) - Ashore

Modification Item 1 of 1: 3216 Navy Multiband Terminal (NMT) - Ashore

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: Marlborough, MA
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 15

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jan 2014	Dec 2014					
Delivery Dates	Apr 2015	Mar 2016					

Manufacturer Name: New MFG - TBD	Manufacturer Location: New MFG - TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 15

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Jan 2016				
Delivery Dates			Apr 2017				

Installation Information

Method of Implementation: Method:: Installation Name: Navy Multiband Terminal (NMT) - Ashore

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 1.372	11 / 6.675	5 / 4.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 12.272
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	5 / 5.498	- / -	5 / 5.498	- / -	- / -	- / -	- / -	- / -	5 / 5.498
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.570	- / -	- / -	- / -	1 / 1.570
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 9.380	- / -	9 / 9.380
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.273	2 / 2.273
Total	2 / 1.372	11 / 6.675	5 / 4.225	5 / 5.498	- / -	5 / 5.498	- / -	1 / 1.570	- / -	9 / 9.380	2 / 2.273	35 / 30.993

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	8	2	-	1	3	2	-	-	-	-	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	4	5	2	35
Out	2	-	8	2	-	1	3	2	-	-	-	-	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	4	7	35

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13	P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)	Modification Number / Title: 2 / 3216 Navy Multiband Terminal (NMT) - Ashore

Footnotes:

(2) 1. Ashore procurements include the addition of the Advanced EHF Time Division Multiple Access Interface Processor (ATIP) and its backfits on terminals previously procured. 2. December 2014 NMT program awarded a Raytheon bridge contract that supported the procurement of FY15 planned terminals. 3. FY16 will include a new production contract. The Procurement Lead Time is anticipated to remain at 15 months to deliver the first terminal. Deliveries continue over a 12 month period with the last delivery occurring 27 months after award. 4. NMT procurement and installation unit costs will vary and fluctuate from year to year due to a different mix of platform variants and quantity of components procured and installed each year to include additional costs for ATIP capability. Ashore sites consist of 2 variants; Communications Group with 1 antenna or a Communications Group only. The antenna mix ties to the specific configuration requirement for shore site. Additionally, procurement unit cost is also determined by contract quantity pricing at the total order level (ship/sub/shore).

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13				P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)					Modification Number / Title: 3 / 3216 NMT Wideband Anti-Jam Modem			

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	-	23.700	34.000	42.588	58.850	159.138
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	-	23.700	34.000	42.588	58.850	159.138
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	-	-	-	-	-	23.700	34.000	42.588	58.850	159.138
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

NMT Wideband Anti Jam Modem procurements and installations begin in FY18 to provide upgrades to NMT Terminals across platforms.

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Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13				P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)						Modification Number / Title: 3 / 3216 NMT Wideband Anti-Jam Modem			
Models of Systems Affected:				Modification Type:				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> 3216 NMT Wideband Anti-Jam Modem													
A Kits													
Recurring													
1.1.1) Wideband Anti-Jam Modem - Ship - NonOrganic (3)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 16.916	33 / 22.777	43 / 30.272	49 / 34.594	150 / 104.559	
1.1.2) Production Support - Ship - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.921	- / 1.358	- / 1.831	- / -	- / 4.110	
1.1.3) Other DSA - Ship - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.280	- / 2.269	- / 2.439	- / -	- / 5.988	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.117	- / 26.404	- / 34.542	- / 34.594	- / 114.657	
<i>Subtotal: 3216 NMT Wideband Anti-Jam Modem</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	25 / 19.117	33 / 26.404	43 / 34.542	49 / 34.594	150 / 114.657	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.117	- / 26.404	- / 34.542	- / 34.594	- / 114.657	
Installation													
<i>Modification Item 1 of 1:</i> 3216 NMT Wideband Anti-Jam Modem	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.583	- / 7.596	- / 8.046	- / 24.256	- / 44.481	
<i>Subtotal: Installation</i>	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.583	- / 7.596	- / 8.046	- / 24.256	- / 44.481	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	-	-	-	-	23.700	34.000	42.588	58.850	159.138	

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 13	P-1 Line Item Number / Title: 3216 / Navy Multiband Terminal (NMT)	Modification Number / Title: 3 / 3216 NMT Wideband Anti-Jam Modem

Modification Item 1 of 1: 3216 NMT Wideband Anti-Jam Modem

Manufacturer Information

Manufacturer Name: New MFG - Name				Manufacturer Location: New MFG - TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 5			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates					Jan 2018		
Delivery Dates					Jun 2019		

Installation Information

Method of Implementation: [none specified]:: Installation Name: Wideband Anti-Jam Modem - Ship

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 4.583	9 / 2.629	- / -	- / -	25 / 7.212
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 4.967	16 / 4.768	- / -	33 / 9.735
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 3.278	32 / 9.583	43 / 12.861
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 14.673	49 / 14.673
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 4.583	26 / 7.596	27 / 8.046	81 / 24.256	150 / 44.481

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	-	-	9	17	-	-	16	11	81	150	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	-	-	9	17	-	-	16	92	150	

Footnotes:

⁽³⁾ Cost to Complete funding continues fielding of the Anti-Jam upgrades.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 14: Shore Communications							P-1 Line Item Number / Title: 3302 / JCS Communications Equipment					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	6.558	4.463	4.369	4.591	-	4.591	4.408	4.329	4.426	4.520	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	6.558	4.463	4.369	4.591	-	4.591	4.408	4.329	4.426	4.520	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	6.558	4.463	4.369	4.591	-	4.591	4.408	4.329	4.426	4.520	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: This line funds the Department of the Navy's portion of the Joint Communications Support Element (JCSE) Program. Director, Joint Staff Memorandum (DJSJ 0291-14) Fiscal Year 2016-2021 Joint Communications Support Element Modernization Program and Resource Management Decision (RMD) 700A2 directs the Department of the Navy to fund a portion of the Joint Communications Support Element (JCSE) Program. This program is jointly funded by Army, Navy, Marine Corps and Air Force in support of Joint Tactical Force and Joint Special Operations Task Force Headquarters.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 14: Shore Communications				P-1 Line Item Number / Title: 3302 / JCS Communications Equipment				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
JCS Communications Equipment	P-40a		- / 6.558	- / 4.463	- / 4.369	- / 4.591	- / -	- / 4.591
Total Gross/Weapon System Cost			- / 6.558	- / 4.463	- / 4.369	- / 4.591	- / -	- / 4.591
*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 add due to rounding.								

Justification:

FY 2016-2020 equipment to be procured includes hardware and software to support Defensive Cyber Operations, Transport technologies (narrowband, wideband and protected satellite communications), C4 Architecture (network elements that provide access to the DISN cloud), and C2 On-The-Move (land, air and ground based tactical capabilities) in concert with Strategic Planning Guidance. JCSE's Modernization Program is built and structured around Combatant Command (CCMD) requirements using emerging technologies. Services formally influence JCSE's acquisition plan through semi-annual program reviews, and make recommendations in concert with Major Defense Acquisition Program (MDAP) schedules, ensuring that Service dollars meet Joint Service requirements. The modernization program goals include meeting emerging real-world operational requirements with improved capabilities, smaller footprint, reduced operations and maintenance costs, and seamless integration with the global information grid.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 14								P-1 Line Item Number / Title: 3302 / JCS Communications Equipment							Aggregated Items Title: JCS Communications Equipment				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
1) Joint Communication Support Element Modernization																				
1.1) Joint Communication Support Element Modernization ⁽¹⁾	A		-	-	6.558	-	-	4.463	-	-	4.369	-	-	4.591	-	-	-	-	-	4.591
Subtotal: 1) Joint Communication Support Element Modernization			-	-	6.558	-	-	4.463	-	-	4.369	-	-	4.591	-	-	-	-	-	4.591
Total			-	-	6.558	-	-	4.463	-	-	4.369	-	-	4.591	-	-	-	-	-	4.591

Footnotes:

⁽¹⁾ Quantities are not shown. Quantities and equipment type are determined by the COCOM on an annual basis based on Joint Task Force and Joint Special Operations Task Force operational requirements for critical communications.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy	Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 14: Shore Communications	P-1 Line Item Number / Title: 3303 / Electrical Power Systems

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.778	1.402	1.403	-	1.403	1.374	1.407	1.439	1.469	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	0.778	1.402	1.403	-	1.403	1.374	1.407	1.439	1.469	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.778	1.402	1.403	-	1.403	1.374	1.407	1.439	1.469	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Procures, installs, and replaces generators and Uninterruptible Power Supply (UPS) systems to provide highly reliable, continuous, high quality power subsystems to support Navy Cyber Forces. Some of the operational load is designated as "critical" and requires UPS systems for instantaneous application in case of loss or disturbance of the primary power source.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 14: Shore Communications					P-1 Line Item Number / Title: 3303 / Electrical Power Systems			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Electrical Power Systems	P-40a, P-5a, P-21		- / 0.000	- / 0.778	- / 1.402	- / 1.403	- / -	- / 1.403
Total Gross/Weapon System Cost			- / 0.000	- / 0.778	- / 1.402	- / 1.403	- / -	- / 1.403
*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 add due to rounding.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 14								P-1 Line Item Number / Title: 3303 / Electrical Power Systems							Aggregated Items Title: Electrical Power Systems				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
1) Electrical Power Systems (Fleet Forces Command)																				
1.1) Procure & Install Generators - NCTS Bahrain ^(†)	A		-	-	-	0.778	1	0.778	-	-	-	-	-	-	-	-	-	-	-	
1.2) Procure & Install Generator Systems, Comm Facility Iceland ^(†)	A		-	-	-	-	-	-	1.402	1	1.402	-	-	-	-	-	-	-	-	
1.3) Procure & Install UPS, Comm Facility Bahrain ^(†)	A		-	-	-	-	-	-	-	-	-	1.403	1	1.403	-	-	-	1.403	1	1.403
Subtotal: 1) Electrical Power Systems (Fleet Forces Command)			-	-	0.000	-	-	0.778	-	-	1.402	-	-	1.403	-	-	-	-	-	1.403
Total			-	-	0.000	-	-	0.778	-	-	1.402	-	-	1.403	-	-	-	-	-	1.403

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 14				P-1 Line Item Number / Title: 3303 / Electrical Power Systems				Aggregated Items: Electrical Power Systems					
Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date	
1) Electrical Power Systems (Fleet Forces Command)													
1.1) Procure & Install Generators - NCTS Bahrain		2014	URS Corporation / 600 Montgomery St, San Francisco, CA 94111	C / FP	SPAWAR Charleston, Charleston SC	Jan 2014	Apr 2014	1	0.778	N			
1.2) Procure & Install Generator Systems, Comm Facility Iceland ^(†)		2015	Facilities Development Corporation / Reston, VA	C / FP	Facilities Development Corporation, Reston VA	Sep 2015	Sep 2015	1	1.402	Y			
1.3) Procure & Install UPS, Comm Facility Bahrain ^(†)		2016	Up-Side Management Company / Jacksonville, FL	C / FP	NAVFAC Engineering Service Center, Southeast Region	Oct 2015	Oct 2015	1	1.403	N			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Navy																					Date: February 2015											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 14										P-1 Line Item Number / Title: 3303 / Electrical Power Systems											Aggregated Items: Electrical Power Systems											
Items <i>(Units in Each)</i>							Fiscal Year 2014											Fiscal Year 2015														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014											Calendar Year 2015														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
1) Electrical Power Systems (Fleet Forces Command)																																
1.2) Procure & Install Generator Systems, Comm Facility Iceland																																
	9	2015	NAVY		1	-	1																								A1	-
1.3) Procure & Install UPS, Comm Facility Bahrain																																
	10	2016	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	B A L

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 14											P-1 Line Item Number / Title: 3303 / Electrical Power Systems											Aggregated Items: Electrical Power Systems											
Items (Units in Each)							Fiscal Year 2016											Fiscal Year 2017															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016											Calendar Year 2017															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L		
1) Electrical Power Systems (Fleet Forces Command)																																	
1.2) Procure & Install Generator Systems, Comm Facility Iceland																																	
	9	2015	NAVY		1	1	-																										-
1.3) Procure & Install UPS, Comm Facility Bahrain																																	
	10	2016	NAVY		1	-	1	A1																									-
								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	

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 14					P-1 Line Item Number / Title: 3303 / Electrical Power Systems				Aggregated Items: Electrical Power Systems			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Facilities Development Corporation - Reston, VA	-	-	-	-	-	-	-	-	-	-	-
2	Up-Side Management Company - Jacksonville, FL	-	-	-	-	-	-	-	-	-	-	-

"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 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 15: Cryptographic Equipment							P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements: 0303140N				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,228.610	125.902	108.002	135.687	-	135.687	82.905	85.848	86.376	88.273	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,228.610	125.902	108.002	135.687	-	135.687	82.905	85.848	86.376	88.273	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,228.610	125.902	108.002	135.687	-	135.687	82.905	85.848	86.376	88.273	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	1.262	0.641	1.520	-	1.520	1.063	0.838	1.486	1.449	Continuing	Continuing
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
The Information Systems Security Program (ISSP) ensures the protection of Navy and joint cyberspace systems from exploitation and attack. Systems include wired and wireless telecommunications systems, cybersecurity systems, and the content processed, stored, or transmitted therein. ISSP includes protection of the Navy's National Security Systems (NSS).												
The rapid change in the underlying commercial and government cyber infrastructures makes cybersecurity an increasingly complex and dynamic problem. ISSP provides the Navy's warfighter the essential information trust characteristics of availability, confidentiality, integrity, authentication, and non-repudiation. Cybersecurity and remediation activities must evolve quickly to meet the rapidly evolving threats and vulnerabilities.												
[P5 / Public Key Infrastructure (DA018)]: PKI implements a secure infrastructure for the generation, management, and delivery of digital certificates for secure electronic transactions, hardware certificate-based two-way authentication to networks, applications, and web servers; and secure email.												
[P5 / Cybersecurity Virtual Secure Enclave (VSE) (DA070)]: Cybersecurity VSE is the follow-on limited transition of capabilities from the Office of the Secretary of Defense (OSD) / Pacific Command (PACOM) sponsored VSE Joint Capability Technology Demonstration (JCTD). The technology provides a virtual secure enclave within existing networks that create a two-way encrypted tunnel between locations. Client Nodes (CN) and deployable Fly Away Kits (FAK) expand user level access to the existing system architecture which is required for the execution of various operational plans.												
[P3A / Computer Network Defense (CND) Increment 2- Afloat (DA070)]: Computer Network Defense (CND) is a layered protection strategy, using Commercial Off-The-Shelf (COTS) and Government Off-The-Shelf (GOTS) hardware and software products that collectively provide an effective network security infrastructure.												
CND Afloat systems include: System and host-based cybersecurity protection tools such as Host Based Security System (HBSS), Operation Rolling Tide (ORT)/cyber remediation tools including Assured Configuration Assessment Solution (ACAS), supporting hardware and software for Department of Defense (DoD) mandated tools, Information Assurance Tracking System (IATS), Operating System Environment (OSE), enhanced data correlation tools, switches, ancillary devices and other related security tools. ORT/ cyber remediation tools will accelerate the Navy's ability to prevent, constrain, and mitigate cyber-attacks and critical vulnerabilities in order to achieve improved network defense and security wholeness. ORT will procure modern network sensors improving the ability to detect unusual network patterns and prevent/ deter malicious attacks. Remediation tools will provide hardened boundary protection, less intrusions, improved network scanning management and network health. HBSS upgrades will flag more anomalies to learn future intrusions and attack vectors.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 15: Cryptographic Equipment		P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0303140N
[P3A - 2 / Computer Network Defense (CND) Increment 2- Ashore (DA070)]: CND Ashore sites include: Networks Operation Centers (NOCs), Outside the Continental United States (OCONUS) Navy Enterprise Network (ONE-Net) Information Assurance Suite (IAS), Broadcast Control Authorities (BCA), and Navy Cyber Defense Operations Command (NCDOC), and CND production labs. The ONE-Net security initiative consolidates Local Network Service Centers (LNSC) to their parent Theater Network Operations & Security Center (TNOSCs) for more efficient operation and enables greater failover capability between ONE-Net sites. The Virtual Training Environment (VTE) initiative supports equipment upgrades at the Navy schoolhouses. The Pre-Planned Product Improvement (P3I) initiative upgrades end-of-life equipment at the Navy Cyber Defense Operations Command (NCDOC) with a more robust capability. NCDOC is the designated Navy CND service provider, whose mission is to coordinate, monitor, analyze, and oversee the defense of Navy computer networks, NOCs, systems and is responsible for accomplishing CND cybersecurity missions. NOCs provide regional protection to shore and afloat assets within their area of responsibility (AOR). NCDOC provides Navy-wide monitoring and defense for all the Navy NOCs. This effort will transition cybersecurity systems and capabilities from NCDOC as well as upgrade sensor grids, data correlation tools, and upgrade the Cyber Defense Mission Support System (CDMSS) architectural framework in order to provide the necessary storage capability and processing power for NCDOC to successfully ingest and analyze increased volumes of data. CND ashore sites will provide Operation Rolling Tide (ORT)/ cyber remediation tools that will accelerate the Navy's ability to prevent, constrain, and mitigate cyber-attacks and critical vulnerabilities in order to achieve improved network defense and security wholeness. ORT will procure modern network sensors improving the ability to detect unusual network patterns and prevent/deter malicious attacks. Remediation tools will provide hardened boundary protection, less intrusions, improved network scanning management and network health. This capability will allow for the ability to analyze a larger volume of sensor data for longer periods. Remediation tools will reconfigure the CND enterprise infrastructure to a less ship-based software footprint by relocating security management platforms to shore sites. [P3A - 3 / Navy Cryptography (Crypto) - Afloat (DA071)]: The Navy Crypto program is designated as Department of Navy's (DoN) Cryptographic Modernization Program Office (CMPO). CMPO procures, installs, and provides life-cycle support for National Security Agency (NSA) Type-1 end cryptographic units for United States Navy (USN) (to include MSC platforms), United States Marine Corps (USMC), and United States Coast Guard (USCG). Crypto Afloat equipment includes: Families of Communications Security (COMSEC) and Transmission Security (TRANSEC) devices that are divided into crypto voice, crypto data, crypto products and associated ancillary devices. These devices provide modern cryptographic solutions to replace obsolete, legacy devices within the crypto categories for all Services. [P3A - 4 / Navy Cryptography (Crypto) - Ashore (DA071)]: Navy Crypto Ashore sites include: United States Navy (USN), United States Marine Corps (USMC), United States Coast Guard (USCG) facilities, production/integration sites, and training sites. [P3A - 5 / Key Management (KM) - Afloat (DA005)]: KM is a collection of Key Management Infrastructure (KMI) Tier 2 security equipment and Tier 3 equipment Simple Key Loader (SKL). KMI is the next generation Tier 2 product to replace the legacy Local Management Device/Key Processor (LMD/KP) Electronic Key Management System (EKMS). KMI includes the Management Client (MGC), Advanced Key Processor (AKP) and High Assurance Internet Protocol Equipment (HAIP) devices. KMI provides a net-centric, web based architecture for the ordering, management and distribution of all cryptographic key material to support Navy users. SKL is the next generation Tier 3 Data Transfer Device (DTC) that stores, manages, transfers and loads cryptographic key material and COMSEC data through automatic loading of End Cryptographic Units (ECU). KM afloat systems include: KMI Suites, SKL, and KMI Spiral 2. [P3A - 6 / Key Management (KM) - Ashore (DA005)]: KM Ashore sites include: United States Navy (USN) (to include MSC platforms), United States Marine Corps (USMC), United States Coast Guard (USCG) facilities, production integration sites, and training sites.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy	Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 15: Cryptographic Equipment	P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)

ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0303140N

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Info Systems Security Program (ISSP)	P-5, P-5a		- / 50.207	- / 4.375	- / 4.882	- / 2.798	- / -	- / 2.798
1 / Computer Network Defense (CND) Increment 2- Afloat (DA070) ()	P-3a		- / 19.445	- / 5.090	- / 5.507	- / 9.464	- / -	- / 9.464
2 / Computer Network Defense (CND) Increment 2- Ashore (DA070) ()	P-3a		- / 24.283	- / 46.558	- / 17.742	- / 30.022	- / -	- / 30.022
3 / Navy Cryptography (Crypto) - Afloat (DA071) ()	P-3a		- / 417.144	- / 28.565	- / 28.911	- / 50.842	- / -	- / 50.842
4 / Navy Cryptography (Crypto) - Ashore (DA071) ()	P-3a		- / 615.919	- / 6.152	- / 20.643	- / 18.368	- / -	- / 18.368
5 / Key Management (KM) - Afloat (DA005) ()	P-3a		- / 40.470	- / 16.575	- / 10.478	- / 10.211	- / -	- / 10.211
6 / Key Management (KM) - Ashore (DA005) ()	P-3a		- / 61.142	- / 18.587	- / 19.839	- / 13.982	- / -	- / 13.982
Total Gross/Weapon System Cost			- / 1,228.610	- / 125.902	- / 108.002	- / 135.687	- / -	- / 135.687

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
1 / Info Systems Security Program (ISSP)	P-5, P-5a		- / -	- / -	- / -	- / -	- / -	- / -
1 / Computer Network Defense (CND) Increment 2- Afloat (DA070) ()	P-3a		- / 5.963	- / 3.900	- / 2.579	- / 2.390	Continuing	Continuing
2 / Computer Network Defense (CND) Increment 2- Ashore (DA070) ()	P-3a		- / 19.301	- / 21.603	- / 22.653	- / 23.426	Continuing	Continuing
3 / Navy Cryptography (Crypto) - Afloat (DA071) ()	P-3a		- / 32.266	- / 32.648	- / 27.542	- / 18.684	Continuing	Continuing
4 / Navy Cryptography (Crypto) - Ashore (DA071) ()	P-3a		- / 8.455	- / 14.940	- / 20.332	- / 30.233	Continuing	Continuing
5 / Key Management (KM) - Afloat (DA005) ()	P-3a		- / 9.205	- / 5.571	- / 6.225	- / 6.512	Continuing	Continuing
6 / Key Management (KM) - Ashore (DA005) ()	P-3a		- / 5.787	- / 5.220	- / 5.011	- / 4.953	Continuing	Continuing
Total Gross/Weapon System Cost			- / 82.905	- / 85.848	- / 86.376	- / 88.273	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 add due to rounding.

Justification:

The FY 2016 funding request was reduced by \$8.6 million to account for the availability of prior year execution balances.

The FY 2016 budget will procure the following:

Public Key Infrastructure (PKI) (DA018): Real-Time Automated Personal Identification System (RAPIDS) hardware/software, Navy Certificate Validation Infrastructure (NCVI) Secret Internet Protocol Router Network (SIPRNet) & Non-Classified Internet Protocol Router Network (NIPRNet) hardware/software, and Alternate Logon Tokens (ALT) product end items.

Cybersecurity Virtual Secure Enclave (VSE)(DA070): Client Nodes (CN) and deployable Fly Away Kits (FAK).

Computer Network Defense (CND)(DA070): ~\$16M increase from FY15/16 supports the procurement of Operation Rolling Tide (ORT)/cyber remediation tools that add additional layers of CND cybersecurity. This equipment will secure Navy's afloat and ashore network information systems as well as accelerate the Navy's ability to prevent, constrain, and mitigate cyber-attacks and critical vulnerabilities in order to achieve improved network defense and security wholeness. ORT will procure modern network sensors improving the ability to detect unusual network patterns and prevent/deter malicious attacks. Remediation tools will provide hardened boundary protection, less intrusions, improved network scanning management and network health. This capability will allow for the ability to analyze a larger volume of sensor data

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 15: Cryptographic Equipment		P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0303140N
for longer periods. Host Based Security Systems (HBSS) upgrades will flag more anomalies to learn future intrusions and attack vectors. CND is a layered protection strategy, using Commercial Off-The-Shelf (COTS) and Government Off-The-Shelf (GOTS) hardware and software products that collectively provide an effective network security infrastructure. Navy Cryptography (Crypto)(DA071): ~\$20M increase from FY15/16 reflects VINSON/Advanced Narrowband Digital Voice Terminal Cryptographic Modernization (VACM) Milestone C (MS C) program delay to align with United States Air Force (USAF) program schedule. FY16 accounts for the ramp up of VACM procurements to meet fielding schedules associated with VACM Top Secret (TS) mandates. In addition Crypto will procure Communications Security (COMSEC) and Transmission Security (TRANSEC) devices, which are divided into crypto voice, crypto data and crypto product categories. Key Management (KM) (DA005): Key Management Infrastructure (KMI) Spiral 1 and 2, Simple Key Loaders (SKL) and associated ancillary equipment.		

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Exhibit P-5, Cost Analysis: PB 2016 Navy								Date: February 2015										
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)				Item Number / Title [DODIC]: 1 / Info Systems Security Program (ISSP)										
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity (Units in Each)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)		50.207	4.375	4.882	2.798	-	2.798	-	-	-	-	-	-					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) (\$ in Millions)		50.207	4.375	4.882	2.798	-	2.798	-	-	-	-	-	-					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		50.207	4.375	4.882	2.798	-	2.798	-	-	-	-	-	-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-	-	-	-	-	-	-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - Public Key Infrastructure (DA018) Cost																		
Recurring Cost																		
1.1.1) PKI - Procurement ^{(†) (1)}	110.061	261	28.726	0.062	15,025	0.932	0.055	15,000	0.825	0.105	15,010	1.576	-	-	-	0.105	15,010	1.576
Subtotal: Recurring Cost	-	-	28.726	-	-	0.932	-	-	0.825	-	-	1.576	-	-	-	-	-	1.576
Subtotal: Hardware - Public Key Infrastructure (DA018) Cost	-	-	28.726	-	-	0.932	-	-	0.825	-	-	1.576	-	-	-	-	-	1.576
Hardware - Cybersecurity Virtual Secure Enclave (VSE) (DA070) Cost																		
Recurring Cost																		
2.1.1) Cyber VSE - Procurement (PY)	173.706	17	2.953	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) Fly-Away-Kits (FAK)- Procurement Only ^{(†) (2)}	254.700	10	2.547	274.000	1	0.274	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) Fly-Away-Kits (FAK) Hard Drive-Procurement Only ^(†)	-	-	0.000	-	-	-	76.000	3	0.228	77.000	3	0.231	-	-	-	77.000	3	0.231
2.1.4) Client Node (CN) - Procurement ^(†)	273.000	2	0.546	313.000	2	0.626	262.000	1	0.262	288.000	1	0.288	-	-	-	288.000	1	0.288
Subtotal: Recurring Cost	-	-	6.046	-	-	0.900	-	-	0.490	-	-	0.519	-	-	-	-	-	0.519
Subtotal: Hardware - Cybersecurity Virtual Secure Enclave (VSE) (DA070) Cost	-	-	6.046	-	-	0.900	-	-	0.490	-	-	0.519	-	-	-	-	-	0.519

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15						P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)						Item Number / Title [DODIC]: 1 / Info Systems Security Program (ISSP)						
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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - PKI INSTALLATIONS Cost																		
Recurring Cost																		
3.1.1) PKI - Installations	-	-	6.612	-	-	1.400	-	-	1.100	-	-	0.480	-	-	-	-	-	0.480
Subtotal: Recurring Cost	-	-	6.612	-	-	1.400	-	-	1.100	-	-	0.480	-	-	-	-	-	0.480
Subtotal: Hardware - PKI INSTALLATIONS Cost	-	-	6.612	-	-	1.400	-	-	1.100	-	-	0.480	-	-	-	-	-	0.480
Hardware - Cyber VSE INSTALLATIONS Cost																		
Recurring Cost																		
4.1.1) Client Node (CN) - Installations	-	-	0.150	-	-	0.156	-	-	0.064	-	-	0.064	-	-	-	-	-	0.064
4.1.2) Cyber VSE - Installations (PY)	-	-	1.278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	1.428	-	-	0.156	-	-	0.064	-	-	0.064	-	-	-	-	-	0.064
Subtotal: Hardware - Cyber VSE INSTALLATIONS Cost	-	-	1.428	-	-	0.156	-	-	0.064	-	-	0.064	-	-	-	-	-	0.064
Support - Public Key Infrastructure (PKI) Cost																		
5.1) PKI - Production Support	-	-	5.740	-	-	0.025	-	-	0.021	-	-	0.040	-	-	-	-	-	0.040
5.2) PKI - DSA	-	-	1.489	-	-	0.918	-	-	2.360	-	-	0.097	-	-	-	-	-	0.097
Subtotal: Support - Public Key Infrastructure (PKI) Cost	-	-	7.229	-	-	0.943	-	-	2.381	-	-	0.137	-	-	-	-	-	0.137
Support - Cyber VSE Cost																		
6.1) Cyber VSE - Production Support	-	-	0.166	-	-	0.044	-	-	0.022	-	-	0.022	-	-	-	-	-	0.022
Subtotal: Support - Cyber VSE Cost	-	-	0.166	-	-	0.044	-	-	0.022	-	-	0.022	-	-	-	-	-	0.022
Gross/Weapon System Cost	-	-	50.207	-	-	4.375	-	-	4.882	-	-	2.798	-	-	-	-	-	2.798
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - Public Key Infrastructure (DA018) Cost																		
Recurring Cost																		
1.1.1) PKI - Procurement ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15						P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)							Item Number / Title [DODIC]: 1 / Info Systems Security Program (ISSP)						
ID Code (A=Service Ready, B=Not Service Ready) :											MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost			
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - Public Key Infrastructure (DA018) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardware - Cybersecurity Virtual Secure Enclave (VSE) (DA070) Cost																			
Recurring Cost																			
2.1.1) Cyber VSE - Procurement (PY)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.1.2) Fly-Away-Kits (FAK)- Procurement Only ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.1.3) Fly-Away-Kits (FAK) Hard Drive- Procurement Only ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.1.4) Client Node (CN) - Procurement ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - Cybersecurity Virtual Secure Enclave (VSE) (DA070) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardware - PKI INSTALLATIONS Cost																			
Recurring Cost																			
3.1.1) PKI - Installations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - PKI INSTALLATIONS Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardware - Cyber VSE INSTALLATIONS Cost																			
Recurring Cost																			
4.1.1) Client Node (CN) - Installations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4.1.2) Cyber VSE - Installations (PY)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - Cyber VSE INSTALLATIONS Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support - Public Key Infrastructure (PKI) Cost																			
5.1) PKI - Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5.2) PKI - DSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2016 Navy										Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15					P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)					Item Number / Title [DODIC]: 1 / Info Systems Security Program (ISSP)							

ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Public Key Infrastructure (PKI) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Cyber VSE Cost																		
6.1) Cyber VSE - Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Cyber VSE Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

Footnotes:

- (1) Public Key Infrastructure (PKI) unit costs will vary by product type based on Navy Certificate Validation Infrastructure (NCVI) Secret Internet Protocol Router Network (SIPRNet) & Non-Classified Internet Protocol Router Network (NIPRNet) shore site requirements. Alternate Logon Tokens (ALT) are procure only and have no installation costs for Navy.
- (2) Cybersecurity Virtual Secure Enclave (VSE) Fly Away Kits (FAK) installation costs are funded by the cognizant programs and services.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15			P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)					Item Number / Title [DODIC]: 1 / Info Systems Security Program (ISSP)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) PKI - Procurement		2014	NCS Technologies ⁽³⁾ / Gainsville, VA	C / FFP	Gainsville, VA	Mar 2014	Jun 2014	15,025	0.062	Y		
1.1.1) PKI - Procurement		2015	SPAWAR Systems Center Atlantic ⁽⁴⁾ / Charleston, SC	WR	Charleston, SC	Feb 2015	Mar 2015	15,000	0.055	Y		
1.1.1) PKI - Procurement		2016	SPAWAR Systems Center Atlantic ⁽⁴⁾ / Charleston, SC	WR	Charleston, SC	Feb 2016	Mar 2016	15,010	0.105	Y		
2.1.2) Fly-Away-Kits (FAK)- Procurement Only		2014	Georgia Tech Research Institute / Atlanta, GA	C / CPFF	Atlanta, GA	Mar 2014	Apr 2014	1	274.000	Y		
2.1.3) Fly-Away-Kits (FAK) Hard Drive- Procurement Only		2015	Georgia Tech Research Institute / Atlanta, GA	C / CPFF	Atlanta, GA	Mar 2015	Apr 2015	3	76.000	Y		
2.1.3) Fly-Away-Kits (FAK) Hard Drive- Procurement Only		2016	Georgia Tech Research Institute / Atlanta, GA	C / CPFF	Atlanta, GA	Mar 2016	Apr 2016	3	77.000	Y		
2.1.4) Client Node (CN) - Procurement		2014	Georgia Tech Research Institute / Atlanta, GA	C / CPIF	Atlanta, GA	Mar 2014	Apr 2014	2	313.000	Y		
2.1.4) Client Node (CN) - Procurement		2015	Georgia Tech Research Institute / Atlanta, GA	C / CPFF	Atlanta, GA	Mar 2015	Apr 2015	1	262.000	Y		
2.1.4) Client Node (CN) - Procurement		2016	Georgia Tech Research Institute / Atlanta, GA	C / CPFF	Atlanta, GA	Mar 2016	Apr 2016	1	288.000	Y		

Footnotes:

⁽³⁾ PKI - NCS Technologies provides NCVI SIPR/NIPR Afloat requirements.

⁽⁴⁾ PKI - SSC Atlantic provides ALT, SIPR tokens, and ashore NCVI SIPR/NIPR products.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15	P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)	Modification Number / Title: 1 / Computer Network Defense (CND) Increment 2- Afloat (DA070)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	19.445	5.090	5.507	9.464	-	9.464	5.963	3.900	2.579	2.390	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	19.445	5.090	5.507	9.464	-	9.464	5.963	3.900	2.579	2.390	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	19.445	5.090	5.507	9.464	-	9.464	5.963	3.900	2.579	2.390	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 Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Computer Network Defense (CND) is a layered protection strategy, using Commercial Off-The-Shelf (COTS) and Government Off-The-Shelf (GOTS) hardware and software products that collectively provide an effective network security infrastructure.

CND Afloat systems include: System and host-based cybersecurity protection tools such as Host Based Security System (HBSS), Operation Rolling Tide (ORT)/cyber remediation tools including Assured Configuration Assessment Solution (ACAS), supporting hardware and software for Department of Defense (DoD) mandated tools, Information Assurance Tracking System (IATS), Operating System Environment (OSE), enhanced data correlation tools, switches, ancillary devices and other related security tools. ORT/ cyber remediation tools will accelerate the Navy's ability to prevent, constrain, and mitigate cyber-attacks and critical vulnerabilities in order to achieve improved network defense and security wholeness. ORT will procure modern network sensors improving the ability to detect unusual network patterns and prevent/ deter malicious attacks. Remediation tools will provide hardened boundary protection, less intrusions, improved network scanning management and network health. HBSS upgrades will flag more anomalies to learn future intrusions and attack vectors.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)				Modification Number / Title: 1 / Computer Network Defense (CND) Increment 2- Afloat (DA070)				
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0303140N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: Computer Network Defense (CND) Increment 2- Afloat (DA070)												
B Kits												
Recurring												
1.1.1) Operating System Environment (OSE) SW - NonOrganic ⁽⁵⁾	94 / 2.677	40 / 1.206	33 / 1.035	57 / 1.841	- / -	57 / 1.841	30 / 1.017	20 / 0.709	16 / 0.584	16 / 0.608	Continuing	Continuing
1.1.2) Operating System Environment (OSE) HW & SW - NonOrganic	16 / 0.950	2 / 0.123	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 1.073
1.1.3) Information Assurance Tracking System (IATS) - NonOrganic ⁽⁶⁾	25 / 2.920	1 / 0.118	3 / 0.362	1 / 0.120	- / -	1 / 0.120	- / -	- / -	- / -	- / -	- / -	30 / 3.520
1.1.4) Laptop - NonOrganic ⁽⁷⁾	13 / 0.448	2 / 0.081	9 / 0.375	25 / 1.073	- / -	25 / 1.073	20 / 0.959	8 / 0.401	3 / 0.150	2 / 0.104	Continuing	Continuing
Subtotal: Recurring	- / 6.995	- / 1.528	- / 1.772	- / 3.034	- / -	- / 3.034	- / 1.976	- / 1.110	- / 0.734	- / 0.712	Continuing	Continuing
Subtotal: Computer Network Defense (CND) Increment 2- Afloat (DA070)	148 / 6.995	45 / 1.528	45 / 1.772	83 / 3.034	- / -	83 / 3.034	50 / 1.976	28 / 1.110	19 / 0.734	18 / 0.712	Continuing	Continuing
Subtotal: Procurement, All Modification Items	- / 6.995	- / 1.528	- / 1.772	- / 3.034	- / -	- / 3.034	- / 1.976	- / 1.110	- / 0.734	- / 0.712	Continuing	Continuing
Support (All Modification Items)												
2.1) Initial Training ⁽⁸⁾	- / 1.528	- / 0.705	- / 0.726	- / 0.690	- / -	- / 0.690	- / 0.655	- / 0.524	- / 0.420	- / 0.335	Continuing	Continuing
2.2) Production Support	- / 0.299	- / 0.085	- / 0.087	- / 0.130	- / -	- / 0.130	- / 0.092	- / 0.057	- / 0.040	- / 0.037	Continuing	Continuing
2.3) DSA	- / 0.649	- / 0.096	- / 0.237	- / 0.253	- / -	- / 0.253	- / 0.122	- / 0.069	- / 0.033	- / 0.022	Continuing	Continuing
Subtotal: Support	- / 2.476	- / 0.886	- / 1.050	- / 1.073	- / -	- / 1.073	- / 0.869	- / 0.650	- / 0.493	- / 0.394	Continuing	Continuing
Installation												
Modification Item 1 of 1: Computer Network Defense (CND) Increment 2- Afloat (DA070)	- / 9.974	- / 2.676	- / 2.685	- / 5.357	- / -	- / 5.357	- / 3.118	- / 2.140	- / 1.352	- / 1.284	- / -	- / 28.586
Subtotal: Installation	- / 9.974	- / 2.676	- / 2.685	- / 5.357	- / -	- / 5.357	- / 3.118	- / 2.140	- / 1.352	- / 1.284	- / -	- / 28.586
Total												
Total Cost (Procurement + Support + Installation)	19.445	5.090	5.507	9.464	-	9.464	5.963	3.900	2.579	2.390	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15	P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)	Modification Number / Title: 1 / Computer Network Defense (CND) Increment 2- Afloat (DA070)

Modification Item 1 of 1: Computer Network Defense (CND) Increment 2- Afloat (DA070)

Manufacturer Information							
Manufacturer Name: SSC Atlantic				Manufacturer Location: Charleston, SC			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 1			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015				
Delivery Dates	Jan 2014	Jan 2015	Jan 2016				

Installation Information

Method of Implementation: Installed:: Installation Name: Computer Network Defense (CND) Increment 2- Afloat

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	148 / 9.974	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 9.974
FY 2014	- / -	45 / 2.676	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 2.676
FY 2015	- / -	- / -	45 / 2.685	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 2.685
FY 2016	- / -	- / -	- / -	83 / 5.357	- / -	83 / 5.357	- / -	- / -	- / -	- / -	- / -	83 / 5.357
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	50 / 3.118	- / -	- / -	- / -	- / -	50 / 3.118
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 2.140	- / -	- / -	- / -	28 / 2.140
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 1.352	- / -	- / -	19 / 1.352
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 1.284	- / -	18 / 1.284
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	148 / 9.974	45 / 2.676	45 / 2.685	83 / 5.357	- / -	83 / 5.357	50 / 3.118	28 / 2.140	19 / 1.352	18 / 1.284	- / -	436 / 28.586

Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	135	13	14	13	15	3	5	4	22	14	33	17	15	18	14	17	13	6	12	6	7	3	4	8	2	5	7	7	4	-	436
Out	133	15	14	12	16	3	2	6	22	15	33	17	14	19	11	18	15	6	12	6	7	3	4	8	2	5	7	7	4	-	436

Footnotes:

(5) Increase in FY16 Operating System Environment (OSE) software (SW) procurements supports the increase in afloat platforms that require ORT/cyber remediation tools, which will add additional layers of cybersecurity to afloat networks.

(6) CND will complete their Information Assurance Tracking System (IATS) fielding in FY16. Future procurements will be aligned with Consolidated Afloat Networks & Enterprise Services (CANES) fielding.

(7) Increase in FY16 Laptop procurements supports the increase in afloat platforms that require ORT/cyber remediation tools, which will add additional layers of cybersecurity to CND afloat networks.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15	P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)	Modification Number / Title: 1 / Computer Network Defense (CND) Increment 2- Afloat (DA070)

⁽⁸⁾ CND is designated Training Support Agent (TSA) and is required to transition initial training (train the trainer) to an approved solution at the schoolhouses.

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Exhibit P-3a, Individual Modification: PB 2016 Navy									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)					Modification Number / Title: 2 / Computer Network Defense (CND) Increment 2- Ashore (DA070)				
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>		24.283	46.558	17.742	30.022	-	30.022	19.301	21.603	22.653	23.426	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>		24.283	46.558	17.742	30.022	-	30.022	19.301	21.603	22.653	23.426	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>		24.283	46.558	17.742	30.022	-	30.022	19.301	21.603	22.653	23.426	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>		-	-	-	-	-	-	-	-	-	-	-	-
Description: Computer Network Defense (CND) Ashore sites include: Networks Operation Centers (NOCs), Outside the Continental United States (OCONUS) Navy Enterprise Network (ONE-Net) Information Assurance Suite (IAS), Broadcast Control Authorities (BCA), and Navy Cyber Defense Operations Command (NCDOC), and CND production labs. The ONE-Net security initiative consolidates Local Network Service Centers (LNSC) to their parent Theater Network Operations & Security Center (TNOSCs) for more efficient operation and enables greater failover capability between ONE-Net sites. The Virtual Training Environment (VTE) initiative supports equipment upgrades at the Navy schoolhouses. The Pre-Planned Product Improvement (P3I) initiative upgrades end-of-life equipment at the Navy Cyber Defense Operations Command (NCDOC) with a more robust capability. NCDOC is the designated Navy CND service provider, whose mission is to coordinate, monitor, analyze, and oversee the defense of Navy computer networks, NOCs, systems and is responsible for accomplishing CND cybersecurity missions. NOCs provide regional protection to shore and afloat assets within their area of responsibility (AOR). NCDOC provides Navy-wide monitoring and defense for all the Navy NOCs. This effort will transition cybersecurity systems and capabilities from NCDOC as well as upgrade sensor grids, data correlation tools, and upgrade the Cyber Defense Mission Support System (CDMSS) architectural framework in order to provide the necessary storage capability and processing power for NCDOC to successfully ingest and analyze increased volumes of data. CND ashore sites will provide Operation Rolling Tide (ORT)/ cyber remediation tools that will accelerate the Navy's ability to prevent, constrain, and mitigate cyber-attacks and critical vulnerabilities in order to achieve improved network defense and security wholeness. ORT will procure modern network sensors improving the ability to detect unusual network patterns and prevent/deter malicious attacks. Remediation tools will provide hardened boundary protection, less intrusions, improved network scanning management and network health. This capability will allow for the ability to analyze a larger volume of sensor data for longer periods. Remediation tools will reconfigure the CND enterprise infrastructure to a less ship-based software footprint by relocating security management platforms to shore sites.													

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)				Modification Number / Title: 2 / Computer Network Defense (CND) Increment 2- Ashore (DA070)				
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0303140N				
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: Computer Network Defense (CND) Increment 2- Ashore (DA070)												
B Kits												
Recurring												
1.1.1) P3I: NCDOD Upgrade - Organic ⁽⁹⁾	- / -	2 / 10.826	- / -	1 / 1.400	- / -	1 / 1.400	1 / 1.456	1 / 1.514	1 / 1.575	1 / 1.638	Continuing	Continuing
1.1.2) Virtual Training Environment - Organic ⁽¹⁰⁾	1 / 1.655	- / -	- / -	1 / 1.056	- / -	1 / 1.056	- / -	- / -	1 / 1.894	- / -	Continuing	Continuing
1.1.3) CND Production Labs - Organic ⁽¹¹⁾	3 / 2.073	6 / 9.975	3 / 2.270	3 / 3.570	- / -	3 / 3.570	3 / 2.705	3 / 3.217	3 / 2.762	3 / 3.126	Continuing	Continuing
1.1.4) Networks Operation Centers (NOC) - NonOrganic ⁽¹²⁾	9 / 5.181	5 / 7.973	6 / 4.487	5 / 5.057	- / -	5 / 5.057	4 / 3.656	4 / 4.310	4 / 3.739	4 / 4.226	Continuing	Continuing
1.1.5) Navy Cyber Defense Operations Command (NCDOD) - NonOrganic ⁽¹³⁾	2 / 1.571	2 / 3.240	2 / 1.530	2 / 2.073	- / -	2 / 2.073	2 / 1.876	2 / 2.171	2 / 1.886	2 / 2.130	Continuing	Continuing
1.1.6) Theater Network Operations & Security Center (TNOSC) - NonOrganic ⁽¹⁴⁾	6 / 3.543	3 / 5.246	4 / 2.908	5 / 5.880	- / -	5 / 5.880	3 / 2.685	3 / 3.195	3 / 2.766	3 / 3.448	Continuing	Continuing
1.1.7) Broadcast Control Authorities (BCA) - NonOrganic	4 / 0.839	4 / 0.568	4 / 0.586	4 / 0.603	- / -	4 / 0.603	4 / 0.675	4 / 0.703	4 / 0.732	4 / 0.760	Continuing	Continuing
1.1.8) Navy Enterprise Network (ONE-Net) - NonOrganic	2 / 0.227	11 / 1.261	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	13 / 1.488
Subtotal: Recurring	- / 15.089	- / 39.089	- / 11.781	- / 19.639	- / -	- / 19.639	- / 13.053	- / 15.110	- / 15.354	- / 15.328	Continuing	Continuing
Subtotal: Computer Network Defense (CND) Increment 2- Ashore (DA070)	27 / 15.089	33 / 39.089	19 / 11.781	21 / 19.639	- / -	21 / 19.639	17 / 13.053	17 / 15.110	18 / 15.354	17 / 15.328	Continuing	Continuing
Subtotal: Procurement, All Modification Items	- / 15.089	- / 39.089	- / 11.781	- / 19.639	- / -	- / 19.639	- / 13.053	- / 15.110	- / 15.354	- / 15.328	Continuing	Continuing
Support (All Modification Items)												
2.1) Initial Training	- / 1.067	- / 0.621	- / 0.668	- / 0.800	- / -	- / 0.800	- / 0.880	- / 0.924	- / 1.032	- / 1.115	Continuing	Continuing
2.2) Production Support ⁽¹⁵⁾	- / 0.452	- / 2.563	- / 0.414	- / 0.917	- / -	- / 0.917	- / 0.417	- / 0.502	- / 0.593	- / 0.588	Continuing	Continuing
2.3) DSA	- / 1.531	- / 0.615	- / 0.824	- / 0.771	- / -	- / 0.771	- / 0.579	- / 0.602	- / 0.668	- / 0.831	Continuing	Continuing
Subtotal: Support	- / 3.050	- / 3.799	- / 1.906	- / 2.488	- / -	- / 2.488	- / 1.876	- / 2.028	- / 2.293	- / 2.534	Continuing	Continuing
Installation												
Modification Item 1 of 1: Computer Network Defense (CND) Increment 2- Ashore (DA070)	- / 6.144	- / 3.670	- / 4.055	- / 7.895	- / -	- / 7.895	- / 4.372	- / 4.465	- / 5.006	- / 5.564	- / -	- / 41.171
Subtotal: Installation	- / 6.144	- / 3.670	- / 4.055	- / 7.895	- / -	- / 7.895	- / 4.372	- / 4.465	- / 5.006	- / 5.564	- / -	- / 41.171
Total												

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)						Modification Number / Title: 2 / Computer Network Defense (CND) Increment 2- Ashore (DA070)			
Models of Systems Affected:				Modification Type:						Related RDT&E PEs: 0303140N			
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Total Cost (Procurement + Support + Installation)	24.283	46.558	17.742	30.022	-	30.022	19.301	21.603	22.653	23.426	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy										Date: February 2015																													
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15										P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)										Modification Number / Title: 2 / Computer Network Defense (CND) Increment 2- Ashore (DA070)																			
Modification Item 1 of 1: Computer Network Defense (CND) Increment 2- Ashore (DA070)																																							
Manufacturer Information																																							
Manufacturer Name: SSC Atlantic															Manufacturer Location: Charleston, SC																								
Administrative Leadtime (in Months): 2															Production Leadtime (in Months): 3																								
Dates		FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020													
Contract Dates		Dec 2013				Dec 2014				Dec 2015																													
Delivery Dates		Mar 2014				Mar 2015				Mar 2016																													
Installation Information																																							
Method of Implementation: Installed:: Installation Name: Computer Network Defense (CND) Increment 2- Shore																																							
Installation Cost		Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total		FY 2017		FY 2018		FY 2019		FY 2020		To Complete		Total															
		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)															
Prior Years		23 / 6.144		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		23 / 6.144													
FY 2014		- / -		21 / 3.670		4 / 0.935		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		25 / 4.605													
FY 2015		- / -		- / -		11 / 3.120		5 / 2.108		- / -		5 / 2.108		- / -		- / -		- / -		- / -		- / -		- / -		16 / 5.228													
FY 2016		- / -		- / -		- / -		16 / 5.787		- / -		16 / 5.787		- / -		- / -		- / -		- / -		- / -		- / -		16 / 5.787													
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		13 / 4.372		- / -		- / -		- / -		- / -		- / -		13 / 4.372													
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		13 / 4.465		- / -		- / -		- / -		- / -		13 / 4.465													
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		13 / 5.006		- / -		- / -		- / -		13 / 5.006													
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		13 / 5.564		- / -		- / -		13 / 5.564													
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -													
Total		23 / 6.144		21 / 3.670		15 / 4.055		21 / 7.895		- / -		21 / 7.895		13 / 4.372		13 / 4.465		13 / 5.006		13 / 5.564		- / -		- / -		132 / 41.171													
Installation Schedule																																							
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020													
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot								
In	23	-	-	7	14	-	4	5	6	2	3	4	12	-	-	1	12	-	-	10	3	-	-	10	3	-	-	10	3	-	132								
Out	23	-	-	6	15	-	3	3	9	2	2	3	13	1	-	-	10	3	-	10	3	-	-	10	3	-	-	10	3	-	132								
Method of Implementation (Organic): Not Installed - P3I: NCDODC Upgrade																														Installation Quantity: 7									
Method of Implementation (Organic): Not Installed - Virtual Training Environment																														Installation Quantity: 3									

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15	P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)	Modification Number / Title: 2 / Computer Network Defense (CND) Increment 2- Ashore (DA070)
Modification Item 1 of 1: Computer Network Defense (CND) Increment 2- Ashore (DA070)		
Installation Information		
Method of Implementation (Organic): Not Installed - CND Production Labs		Installation Quantity: 27

Footnotes:

⁽⁹⁾ Pre-Planned Product Improvement (P3I) initiative for Navy Cyber Defense Operations Command (NCDOC) supports a major upgrade of end-of-life equipment with more robust capability that is required to support the NCDOC mission. Continuing improvements planned in the out years. P3I upgrade supports the procurement of additional Operation Rolling Tide (ORT)/cyber remediation tools.

⁽¹⁰⁾ CND is designated Training Support Agent (TSA) and is required to transition equipment to an approved solution at the schoolhouses. FY16 and FY19 funds reflect equipment upgrades to the latest CND baselines. No associated install costs.

⁽¹¹⁾ Procurement costs for CND production labs increase in FY16 due to additional cybersecurity procurements associated with the ORT/cyber remediation initiative. CND Production Labs procures production representative systems. No associated install costs.

⁽¹²⁾ Networks Operation Centers (NOC) quantities represents multiple CND architectures and builds that are specifically procured for each site. Unit cost fluctuations vary by site type and variant. Installation cost will vary based on equipment being installed. Due to CND's rapid IT fielding, procurement costs will vary in order to meet mandated cyber security initiatives. FY16 unit cost increase supports the procurement of additional ORT/cyber remediation tools that will add additional layers of cybersecurity to CND ashore networks.

⁽¹³⁾ FY16 unit cost increase for Navy Cyber Defense Operations Command (NCDOC) sites support the procurement of additional ORT/cyber remediation tools that will add additional layers of cybersecurity to CND ashore networks.

⁽¹⁴⁾ FY16 unit cost increase for the Theater Network Operations & Security Center (TNOSC) sites support the procurement of additional ORT/cyber remediation tools that will add additional layers of cybersecurity to CND ashore networks.

⁽¹⁵⁾ FY16 production support increase aligns with the increase in procurements to support the ORT/cyber remediation initiative.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15	P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)	Modification Number / Title: 3 / Navy Cryptography (Crypto) - Afloat (DA071)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	417.144	28.565	28.911	50.842	-	50.842	32.266	32.648	27.542	18.684	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	417.144	28.565	28.911	50.842	-	50.842	32.266	32.648	27.542	18.684	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	417.144	28.565	28.911	50.842	-	50.842	32.266	32.648	27.542	18.684	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Navy Cryptography (Crypto) procures cryptographic equipment which includes families of Communications Security (COMSEC) and Transmission Security (TRANSEC) devices that are divided into crypto voice, crypto data, and crypto products and associated ancillary devices. These devices provide modern cryptographic solutions to replace obsolete, legacy devices within the crypto categories.

Crypto Data products include KIV-7M (COMSEC Serial Crypto Replacement), KW-46, Enhanced Firefly (EFF) Modernization, Cryptographic Universal Enclosures (CUE), In-Line Network Encryptors (INE), and AN-PYQ-20(v)(c).

Crypto Voice products include VINSON/Advanced Narrowband Digital Voice Terminal Cryptographic Modernization (VACM).

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)				Modification Number / Title: 3 / Navy Cryptography (Crypto) - Afloat (DA071)					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0303140N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Navy Cryptography (Crypto) - Afloat (DA071)													
B Kits													
Recurring													
1.1.1) In-Line Network Encryptors (INE) - Organic	3,575 / 48.014	1,013 / 13.004	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,588 / 61.018	
1.1.2) COMSEC Serial Crypto Replacement - Organic	- / -	725 / 7.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	725 / 7.250	
1.1.3) Enhanced Fire Fly (EFF) Modernization - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 0.110	196 / 1.960	357 / 3.570	Continuing	Continuing	
1.1.4) Crypto (PY) - NonOrganic	97 / 243.517	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	97 / 243.517	
1.1.5) AN-PYQ-20(v)(c) - NonOrganic	48 / 0.377	1 / 0.016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 0.393	
1.1.6) KW-46 - NonOrganic	12 / 0.413	26 / 0.766	69 / 2.036	57 / 1.682	- / -	57 / 1.682	69 / 2.037	- / -	- / -	- / -	- / -	233 / 6.934	
1.1.7) COMSEC Serial Crypto Replacement (Phase I) - NonOrganic	254 / 23.592	15 / 0.146	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	269 / 23.738	
1.1.8) COMSEC Serial Crypto Replacement (Phase II) - NonOrganic ⁽¹⁶⁾	- / -	20 / 0.361	41 / 0.718	34 / 0.637	- / -	34 / 0.637	22 / 0.440	- / -	1 / 0.020	- / -	- / -	118 / 2.176	
1.1.9) Cryptographic Universal Enclosures (CUE) CSRR - NonOrganic	19 / 6.618	7 / 0.797	12 / 1.366	9 / 1.029	- / -	9 / 1.029	8 / 0.920	3 / 0.347	- / -	- / -	- / -	58 / 11.077	
1.1.10) VINSON/Advanced Narrowband Digital Voice Terminal CM (VACM) - NonOrganic ⁽¹⁷⁾	- / -	- / -	18 / 5.364	90 / 24.030	- / -	90 / 24.030	54 / 7.830	144 / 13.104	145 / 13.195	17 / 1.547	Continuing	Continuing	
1.1.11) EFF Modernization - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 1.920	26 / 2.080	66 / 5.280	Continuing	Continuing	
Subtotal: Recurring	- / 322.531	- / 22.340	- / 9.484	- / 27.378	- / -	- / 27.378	- / 11.227	- / 15.481	- / 17.255	- / 10.397	Continuing	Continuing	
Subtotal: Navy Cryptography (Crypto) - Afloat (DA071)	4,005 / 322.531	1,807 / 22.340	140 / 9.484	190 / 27.378	- / -	190 / 27.378	153 / 11.227	182 / 15.481	368 / 17.255	440 / 10.397	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 322.531	- / 22.340	- / 9.484	- / 27.378	- / -	- / 27.378	- / 11.227	- / 15.481	- / 17.255	- / 10.397	Continuing	Continuing	
Support (All Modification Items)													
2.1) Production Support	- / 22.178	- / 1.065	- / 0.447	- / 1.072	- / -	- / 1.072	- / 0.393	- / 0.550	- / 0.607	- / 0.361	Continuing	Continuing	
2.2) DSA ⁽¹⁸⁾	- / 14.271	- / 3.858	- / 8.053	- / 7.161	- / -	- / 7.161	- / 6.104	- / 3.463	- / 4.487	- / 1.341	Continuing	Continuing	
Subtotal: Support	- / 36.449	- / 4.923	- / 8.500	- / 8.233	- / -	- / 8.233	- / 6.497	- / 4.013	- / 5.094	- / 1.702	Continuing	Continuing	
Installation													
Modification Item 1 of 1: Navy Cryptography (Crypto) - Afloat (DA071)	- / 58.164	- / 1.302	- / 10.927	- / 15.231	- / -	- / 15.231	- / 14.542	- / 13.154	- / 5.193	- / 6.585	- / -	- / 125.098	
Subtotal: Installation	- / 58.164	- / 1.302	- / 10.927	- / 15.231	- / -	- / 15.231	- / 14.542	- / 13.154	- / 5.193	- / 6.585	- / -	- / 125.098	
Total													
Total Cost (Procurement + Support + Installation)	417.144	28.565	28.911	50.842	-	50.842	32.266	32.648	27.542	18.684	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15			P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)			Modification Number / Title: 3 / Navy Cryptography (Crypto) - Afloat (DA071)	
Modification Item 1 of 1: Navy Cryptography (Crypto) - Afloat (DA071)							
Manufacturer Information							
Manufacturer Name: KW-46 - NSA ⁽¹⁹⁾				Manufacturer Location: Columbia, Maryland			
Administrative Leadtime <i>(in Months)</i> : 4				Production Leadtime <i>(in Months)</i> : 7			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Feb 2014	Feb 2015	Feb 2016				
Delivery Dates	Sep 2014	Sep 2015	Sep 2016				
Manufacturer Name: COMSEC (Phase I) - NSA				Manufacturer Location: Waltham, Massachusetts			
Administrative Leadtime <i>(in Months)</i> : 4				Production Leadtime <i>(in Months)</i> : 7			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Feb 2014						
Delivery Dates	Sep 2014						
Manufacturer Name: COMSEC (Phase II) - NSA ⁽²⁰⁾				Manufacturer Location: Waltham, Massachusetts			
Administrative Leadtime <i>(in Months)</i> : 4				Production Leadtime <i>(in Months)</i> : 7			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Feb 2014	Feb 2015	Feb 2016				
Delivery Dates	Sep 2014	Sep 2015	Sep 2016				
Manufacturer Name: VACM - USAF ⁽²¹⁾				Manufacturer Location: Fort Wayne, Indiana			
Administrative Leadtime <i>(in Months)</i> : 3				Production Leadtime <i>(in Months)</i> : 7			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Jun 2015	Jan 2016				
Delivery Dates		Feb 2016	Aug 2016				
Manufacturer Name: CSRR - CUE - SPAWAR Systems Center Pacific				Manufacturer Location: San Diego, CA			
Administrative Leadtime <i>(in Months)</i> : 4				Production Leadtime <i>(in Months)</i> : 7			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Feb 2014	Feb 2015	Feb 2016				
Delivery Dates	Sep 2014	Sep 2015	Sep 2016				
Manufacturer Name: AN PYQ-20(V)(C) - Crestwood Technology Group				Manufacturer Location: Yonkers, New York			
Administrative Leadtime <i>(in Months)</i> : 4				Production Leadtime <i>(in Months)</i> : 7			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Feb 2014						

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)				Modification Number / Title: 3 / Navy Cryptography (Crypto) - Afloat (DA071)				
Modification Item 1 of 1: Navy Cryptography (Crypto) - Afloat (DA071)												
Manufacturer Information												
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Delivery Dates	Sep 2014											
Manufacturer Name: In-Line Network Encryptors (INE) - NSA				Manufacturer Location: Fort Meade, Maryland								
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 7								
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Jan 2014											
Delivery Dates	Aug 2014											
Manufacturer Name: COMSEC Serial Crypto Replacement				Manufacturer Location: Waltham, Massachusetts								
Administrative Leadtime (in Months): 4				Production Leadtime (in Months): 7								
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Feb 2014											
Delivery Dates	Sep 2014											
Installation Information												
Method of Implementation: Installed:: Installation Name: Communications Security (COMSEC / CRYPTO) - Afloat												
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Prior Years	430 / 58.164	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	430 / 58.164
FY 2014	- / -	12 / 1.302	57 / 6.935	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	69 / 8.237
FY 2015	- / -	- / -	33 / 3.992	107 / 11.080	- / -	107 / 11.080	- / -	- / -	- / -	- / -	- / -	140 / 15.072
FY 2016	- / -	- / -	- / -	59 / 4.151	- / -	59 / 4.151	131 / 11.698	- / -	- / -	- / -	- / -	190 / 15.849
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	37 / 2.844	116 / 11.080	- / -	- / -	- / -	153 / 13.924
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 2.074	137 / 4.920	- / -	- / -	171 / 6.994
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.273	160 / 6.188	- / -	172 / 6.461
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.397	66 / -	83 / 0.397
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	430 / 58.164	12 / 1.302	90 / 10.927	166 / 15.231	- / -	166 / 15.231	168 / 14.542	150 / 13.154	149 / 5.193	177 / 6.585	66 / -	1,408 / 125.098

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Exhibit P-3a, Individual Modification: PB 2016 Navy																									Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15										P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)										Modification Number / Title: 3 / Navy Cryptography (Crypto) - Afloat (DA071)											
Modification Item 1 of 1: Navy Cryptography (Crypto) - Afloat (DA071)																															
Installation Information																															
Method of Implementation: Installed:: Installation Name: Communications Security (COMSEC / CRYPTO) - Afloat																															
Installation Schedule																															
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	430	-	-	-	-	12	19	18	20	33	34	28	57	47	62	38	35	33	41	37	43	29	110	27	1	11	131	29	17	66	1,408
Out	430	-	-	-	-	10	19	16	23	30	32	27	57	53	61	36	34	37	38	39	44	29	111	27	1	11	131	29	17	66	1,408
Method of Implementation (Organic): Organic - In-Line Network Encryptors (INE)																				Installation Quantity: 4588											
Method of Implementation (Organic): Organic - COMSEC Serial Crypto Replacement																				Installation Quantity: 725											
Method of Implementation (Organic): Organic - Enhanced Fire Fly (EFF) Modernization																				Installation Quantity: 564											
Footnotes: ⁽¹⁶⁾ COMSEC Serial Crypto Replacement (Phase II) procure KIV-7M and ancillary equipment for installation of Secret (S) circuit requirements. ⁽¹⁷⁾ VINSON/Advanced Narrowband Digital Voice Terminal Crypto Modernization (VACM) unit cost fluctuations are due to the difference in the unit configurations for Navy, United States Coast Guard (USCG) and Marines. VACM (NonOrganic) devices are installed across five quarters due to procurement and installation lead times required to meet contractual agreements and support fleet availability. ⁽¹⁸⁾ VACM Design Services Agency (DSA) cost fluctuations are due to the unit configuration on the various defense agencies. ⁽¹⁹⁾ Raytheon is the KW-46 manufacturer through the National Security Agency (NSA). ⁽²⁰⁾ Raytheon is the COMSEC Phase II manufacturer through NSA. ⁽²¹⁾ Raytheon is the VACM manufacturer through United States Air Force (USAF).																															

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15	P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)	Modification Number / Title: 4 / Navy Cryptography (Crypto) - Ashore (DA071)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	615.919	6.152	20.643	18.368	-	18.368	8.455	14.940	20.332	30.233	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	615.919	6.152	20.643	18.368	-	18.368	8.455	14.940	20.332	30.233	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	615.919	6.152	20.643	18.368	-	18.368	8.455	14.940	20.332	30.233	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 Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Navy Crypto procures cryptographic equipment which includes families of Communications Security (COMSEC) and Transmission Security (TRANSEC) devices that are divided into crypto voice, crypto data, and crypto products and associated ancillary devices. These devices provide modern cryptographic solutions to replace obsolete, legacy devices within the crypto categories.

Crypto Data products include KIV-7M (COMSEC Serial Crypto Replacement) and Enhanced Firefly (EFF) Modernization. Crypto Voice products include VINSON/Advanced Narrowband Digital Voice Terminal Cryptographic Modernization (VACM).

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)				Modification Number / Title: 4 / Navy Cryptography (Crypto) - Ashore (DA071)					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0303140N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Navy Cryptography (Crypto) - Ashore (DA071)													
B Kits													
Recurring													
1.1.1) Crypto (PY) - Organic	1,129 / 20.316	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,129 / 20.316	
1.1.2) VINSON/Advanced Narrowband Digital Voice Terminal CM (VACM) - Organic ⁽²²⁾	- / -	500 / 5.500	1,216 / 10.822	1,034 / 9.203	- / -	1,034 / 9.203	94 / 0.837	566 / 5.037	500 / 4.450	1,442 / 12.834	Continuing	Continuing	
1.1.3) Enhanced Fire Fly (EFF) Modernization - Organic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	112 / 1.120	110 / 1.100	Continuing	Continuing	
1.1.4) Crypto Devices (PY) (Installed) - NonOrganic	303 / 313.972	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	303 / 313.972	
1.1.5) COMSEC Serial Crypto Replacement (Phase II) - NonOrganic	- / -	17 / 0.171	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.171	
1.1.6) VACM - NonOrganic ⁽²³⁾	- / -	- / -	5 / 8.500	8 / 8.400	- / -	8 / 8.400	11 / 5.830	24 / 4.800	44 / 7.832	110 / 12.980	Continuing	Continuing	
1.1.7) EFF Modernization - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.200	40 / 0.400	- / -	- / -	- / -	60 / 0.600	
Subtotal: Recurring	- / 334.288	- / 5.671	- / 19.322	- / 17.603	- / -	- / 17.603	- / 6.867	- / 10.237	- / 13.402	- / 26.914	Continuing	Continuing	
Subtotal: Navy Cryptography (Crypto) - Ashore (DA071)	1,432 / 334.288	517 / 5.671	1,221 / 19.322	1,042 / 17.603	- / -	1,042 / 17.603	125 / 6.867	630 / 10.237	656 / 13.402	1,662 / 26.914	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 334.288	- / 5.671	- / 19.322	- / 17.603	- / -	- / 17.603	- / 6.867	- / 10.237	- / 13.402	- / 26.914	Continuing	Continuing	
Support (All Modification Items)													
2.1) Production Support	- / 4.932	- / 0.201	- / 0.751	- / 0.622	- / -	- / 0.622	- / 0.256	- / 0.408	- / 0.503	- / 0.990	- / -	- / 8.663	
2.2) Pre-Design Install Planning	- / 5.802	- / 0.280	- / -	- / -	- / -	- / -	- / 0.810	- / 1.651	- / -	- / -	- / -	- / 8.543	
Subtotal: Support	- / 10.734	- / 0.481	- / 0.751	- / 0.622	- / -	- / 0.622	- / 1.066	- / 2.059	- / 0.503	- / 0.990	- / -	- / 17.206	
Installation													
Modification Item 1 of 1: Navy Cryptography (Crypto) - Ashore (DA071)	- / 270.897	- / -	- / 0.570	- / 0.143	- / -	- / 0.143	- / 0.522	- / 2.644	- / 6.427	- / 2.329	- / -	- / 283.532	
Subtotal: Installation	- / 270.897	- / -	- / 0.570	- / 0.143	- / -	- / 0.143	- / 0.522	- / 2.644	- / 6.427	- / 2.329	- / -	- / 283.532	
Total													
Total Cost (Procurement + Support + Installation)	615.919	6.152	20.643	18.368	-	18.368	8.455	14.940	20.332	30.233	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)				Modification Number / Title: 4 / Navy Cryptography (Crypto) - Ashore (DA071)				
Modification Item 1 of 1: Navy Cryptography (Crypto) - Ashore (DA071)												
Manufacturer Information												
Manufacturer Name: VACM - USAF ⁽²⁴⁾						Manufacturer Location: Fort Wayne, Indiana						
Administrative Leadtime <i>(in Months)</i> : 3						Production Leadtime <i>(in Months)</i> : 7						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	May 2014	Jun 2015	Jan 2016									
Delivery Dates	Dec 2014	Jan 2016	Aug 2016									
Manufacturer Name: COMSEC Phase II - Raytheon ⁽²⁵⁾						Manufacturer Location: Waltham, MA						
Administrative Leadtime <i>(in Months)</i> : 4						Production Leadtime <i>(in Months)</i> : 6						
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Feb 2014											
Delivery Dates	Aug 2014											
Installation Information												
Method of Implementation: Installed:: Installation Name: Communications Security (COMSEC / CRYPTO) - Shore												
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>
Prior Years	303 / 270.897	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	303 / 270.897
FY 2014	- / -	- / -	17 / 0.570	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.570
FY 2015	- / -	- / -	- / -	5 / 0.143	- / -	5 / 0.143	- / -	- / -	- / -	- / -	- / -	5 / 0.143
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.522	- / -	- / -	- / -	- / -	8 / 0.522
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 2.644	- / -	- / -	- / -	31 / 2.644
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	64 / 6.427	- / -	- / -	64 / 6.427
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	44 / 2.329	- / -	44 / 2.329
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / -	110 / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	303 / 270.897	- / -	17 / 0.570	5 / 0.143	- / -	5 / 0.143	8 / 0.522	31 / 2.644	64 / 6.427	44 / 2.329	110 / -	582 / 283.532

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15	P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)	Modification Number / Title: 4 / Navy Cryptography (Crypto) - Ashore (DA071)

Modification Item 1 of 1: Navy Cryptography (Crypto) - Ashore (DA071)

Installation Information

Method of Implementation: Installed:: Installation Name: Communications Security (COMSEC / CRYPTO) - Shore

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	303	-	-	-	-	-	6	-	11	-	-	5	-	-	-	8	-	11	-	20	-	24	-	40	-	44	-	-	-	110	582
Out	303	-	-	-	-	-	6	-	11	-	-	5	-	-	-	8	-	11	-	20	-	24	-	40	-	44	-	-	-	110	582

Method of Implementation (Organic): Organic - Crypto (PY)	Installation Quantity: 1129

Method of Implementation (Organic): Organic - VINSON/Advanced Narrowband Digital Voice Terminal CM (VACM)	Installation Quantity: 5352

Method of Implementation (Organic): Organic - Enhanced Fire Fly (EFF) Modernization	Installation Quantity: 222

Footnotes:

⁽²²⁾ Original VINSON/Advanced Narrowband Digital Voice Terminal Crypto Modernization (VACM) unit costs based on Low Rate Initial Production (LRIP) contract estimates. Updated unit costs based on Milestone C (MS C) contract award, achieved May 2014. VACM procurement only (Organic) quantities represent devices only. VACM quantity fluctuations are due to revised Naval Air Systems Command (NAVAIR) and United States Marine Corps (USMC) requirements.

⁽²³⁾ VACM (NonOrganic) quantities represent install suites (system of systems) based on configuration quantity requirements and will vary per platform or site being installed.

⁽²⁴⁾ Raytheon is the VACM manufacturer through USAF.

⁽²⁵⁾ Raytheon is the COMSEC Phase II manufacturer through NSA.

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15	P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)	Modification Number / Title: 5 / Key Management (KM) - Afloat (DA005)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	40.470	16.575	10.478	10.211	-	10.211	9.205	5.571	6.225	6.512	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	40.470	16.575	10.478	10.211	-	10.211	9.205	5.571	6.225	6.512	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	40.470	16.575	10.478	10.211	-	10.211	9.205	5.571	6.225	6.512	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 Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Key Management (KM) is a collection of Key Management Infrastructure (KMI) Tier 2 security equipment and Tier 3 equipment Simple Key Loader (SKL).

KMI is the next generation Tier 2 product to replace the legacy Local Management Device/Key Processor (LMD/KP) Electronic Key Management System (EKMS). KMI includes the Management Client (MGC), Advanced Key Processor (AKP) and High Assurance Internet Protocol Equipment (HAPE) devices. KMI provides a net-centric, web based architecture for the ordering, management and distribution of all cryptographic key material to support Navy users.

SKL is the next generation Tier 3 Data Transfer Device (DTC) that stores, manages, transfers and loads cryptographic key material and COMSEC data through automatic loading of End Cryptographic Units (ECU).

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)				Modification Number / Title: 5 / Key Management (KM) - Afloat (DA005)					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0303140N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Key Management (KM) - Afloat (DA005)													
B Kits													
Recurring													
1.1.1) Key Management (KM) (PY) - Organic		475 / 2.617	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	475 / 2.617	
1.1.2) Key Management Infrastructure (KMI) Suite (MGC/AKP/HAPE) - Organic		117 / 2.191	50 / 1.320	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	167 / 3.511	
1.1.3) Simple Key Loader (SKL) - Organic ⁽²⁶⁾		4,278 / 28.119	3,390 / 11.736	474 / 1.648	96 / 0.335	- / -	96 / 0.335	1,216 / 4.280	1,522 / 5.377	1,702 / 6.013	1,776 / 6.299	Continuing	Continuing
1.1.4) KM (PY) - NonOrganic		295 / 0.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	295 / 0.295	
1.1.5) KMI Spiral 1 & 2 - NonOrganic		3 / 0.079	19 / 0.502	87 / 2.332	87 / 2.332	- / -	87 / 2.332	21 / 0.566	- / -	- / -	- / -	217 / 5.811	
Subtotal: Recurring		- / 33.301	- / 13.558	- / 3.980	- / 2.667	- / -	- / 2.667	- / 4.846	- / 5.377	- / 6.013	- / 6.299	Continuing	Continuing
Subtotal: Key Management (KM) - Afloat (DA005)		5,168 / 33.301	3,459 / 13.558	561 / 3.980	183 / 2.667	- / -	183 / 2.667	1,237 / 4.846	1,522 / 5.377	1,702 / 6.013	1,776 / 6.299	Continuing	Continuing
Subtotal: Procurement, All Modification Items		- / 33.301	- / 13.558	- / 3.980	- / 2.667	- / -	- / 2.667	- / 4.846	- / 5.377	- / 6.013	- / 6.299	Continuing	Continuing
Support (All Modification Items)													
2.1) Production Support		- / 2.048	- / 0.504	- / 0.148	- / 0.094	- / -	- / 0.094	- / 0.172	- / 0.194	- / 0.212	- / 0.213	Continuing	Continuing
2.2) DSA		- / 2.612	- / 2.513	- / 4.000	- / 2.900	- / -	- / 2.900	- / 0.837	- / -	- / -	- / -	- / -	- / 12.862
Subtotal: Support		- / 4.660	- / 3.017	- / 4.148	- / 2.994	- / -	- / 2.994	- / 1.009	- / 0.194	- / 0.212	- / 0.213	Continuing	Continuing
Installation													
Modification Item 1 of 1: Key Management (KM) - Afloat (DA005)		- / 2.509	- / -	- / 2.350	- / 4.550	- / -	- / 4.550	- / 3.350	- / -	- / -	- / -	- / -	- / 12.759
Subtotal: Installation		- / 2.509	- / -	- / 2.350	- / 4.550	- / -	- / 4.550	- / 3.350	- / -	- / -	- / -	- / -	- / 12.759
Total													
Total Cost (Procurement + Support + Installation)		40.470	16.575	10.478	10.211	-	10.211	9.205	5.571	6.225	6.512	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)				Modification Number / Title: 5 / Key Management (KM) - Afloat (DA005)				
Modification Item 1 of 1: Key Management (KM) - Afloat (DA005)												
Manufacturer Information												
Manufacturer Name: Simple Key Loader (SKL) - Army Managed							Manufacturer Location: Fort Huachuca, AZ					
Administrative Leadtime (in Months): 4							Production Leadtime (in Months): 2					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Feb 2014	Feb 2015	Feb 2016									
Delivery Dates	Apr 2014	Apr 2015	Apr 2016									
Manufacturer Name: KMI Spiral 2 - NSA Managed							Manufacturer Location: Fort Meade, MD					
Administrative Leadtime (in Months): 5							Production Leadtime (in Months): 4					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Mar 2014	Mar 2015	Mar 2016									
Delivery Dates	Jul 2014	Jul 2015	Jul 2016									
Manufacturer Name: KMI Suite - NSA Managed							Manufacturer Location: Fort Meade MD					
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 0					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Mar 2014											
Delivery Dates	Jul 2014											
Installation Information												
Method of Implementation: Installed:: Installation Name: Key Management Infrastructure (KMI) - Afloat												
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	298 / 2.509	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	298 / 2.509
FY 2014	- / -	- / -	19 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	19 / 0.900
FY 2015	- / -	- / -	30 / 1.450	57 / 2.750	- / -	57 / 2.750	- / -	- / -	- / -	- / -	- / -	87 / 4.200
FY 2016	- / -	- / -	- / -	40 / 1.800	- / -	40 / 1.800	47 / 2.350	- / -	- / -	- / -	- / -	87 / 4.150
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	21 / 1.000	- / -	- / -	- / -	- / -	21 / 1.000
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	298 / 2.509	- / -	49 / 2.350	97 / 4.550	- / -	97 / 4.550	68 / 3.350	- / -	- / -	- / -	- / -	512 / 12.759

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Exhibit P-3a, Individual Modification: PB 2016 Navy																								Date: February 2015											
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15												P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)												Modification Number / Title: 5 / Key Management (KM) - Afloat (DA005)											
Modification Item 1 of 1: Key Management (KM) - Afloat (DA005)																																			
Installation Information																																			
Method of Implementation: Installed:: Installation Name: Key Management Infrastructure (KMI) - Afloat																																			
Installation Schedule																																			
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020									
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot				
In	298	-	-	-	-	-	5	9	17	18	33	20	29	15	22	21	15	10	-	-	-	-	-	-	-	-	-	-	-	-	-	512			
Out	298	-	-	-	-	-	3	11	16	19	33	17	27	20	21	19	14	12	2	-	-	-	-	-	-	-	-	-	-	-	-	512			
Method of Implementation (Organic): Not Installed - Key Management (KM) (PY)																														Installation Quantity: 475					
Method of Implementation (Organic): Not Installed - Key Management Infrastructure (KMI) Suite (MGC/AKP/HAIPE)																														Installation Quantity: 167					
Method of Implementation (Organic): Not Installed - Simple Key Loader (SKL)																														Installation Quantity: 14454					
Footnotes: ⁽²⁶⁾ Simple Key Loader (SKL) quantities adjusted to maintain inventory objective and fielding schedules.																																			

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Exhibit P-3a, Individual Modification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15	P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)	Modification Number / Title: 6 / Key Management (KM) - Ashore (DA005)

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	61.142	18.587	19.839	13.982	-	13.982	5.787	5.220	5.011	4.953	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	61.142	18.587	19.839	13.982	-	13.982	5.787	5.220	5.011	4.953	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	61.142	18.587	19.839	13.982	-	13.982	5.787	5.220	5.011	4.953	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Key Management is a collection of Tier 2 security equipment, Key Management Infrastructure (KMI) and Tier 3 equipment Simple Key Loader (SKL).

KMI is the next generation Tier 2 product to replace the legacy Local Management Device/Key Processor (LMD/KP) Electronic Key Management System (EKMS). KMI includes the Management Client (MGC), Advanced Key Processor (AKP) and High Assurance Internet Protocol Equipment (HAIZE) devices. KMI provides a net-centric, web based architecture for the ordering, management and distribution of all cryptographic key material to support Navy users.

SKL stores, manages, transfers and loads cryptographic key material and COMSEC data through automatic loading of End Cryptographic Units (ECU). SKL is the next generation Data Transfer Device (DTD), which incorporates a Personal Computer Memory Card International Association card (crypto engine), Commercial-off-the-Shelf (COTS) computer and Government-off-the-Shelf (GOTS) software.

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Exhibit P-3a, Individual Modification: PB 2016 Navy								Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)				Modification Number / Title: 6 / Key Management (KM) - Ashore (DA005)					
Models of Systems Affected:				Modification Type:				Related RDT&E PEs: 0303140N					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: Key Management (KM) - Ashore (DA005)													
B Kits													
Recurring													
1.1.1) Key Management (KM) (PY) - Organic	7,816 / 26.756	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7,816 / 26.756	
1.1.2) Simple Key Loader (SKL) - Organic ⁽²⁷⁾	6,280 / 16.935	2,774 / 9.604	766 / 2.663	104 / 0.363	- / -	104 / 0.363	1,477 / 5.199	1,427 / 5.042	1,375 / 4.841	1,349 / 4.785	Continuing	Continuing	
1.1.3) Key Management Infrastructure (KMI) Suite (MGC/AKP/HAIPE) - Organic	117 / 3.003	80 / 2.112	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	197 / 5.115	
1.1.4) KM (PY) - NonOrganic	554 / 1.116	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	554 / 1.116	
1.1.5) KMI Spiral 1&2 - NonOrganic	13 / 0.340	108 / 2.851	255 / 6.783	105 / 2.813	- / -	105 / 2.813	- / -	- / -	- / -	- / -	- / -	481 / 12.787	
1.1.6) Engineering Change Orders - Organic	- / 2.497	- / 0.768	- / 0.729	- / 0.601	- / -	- / 0.601	- / -	- / -	- / -	- / -	- / -	- / 4.595	
Subtotal: Recurring	- / 50.647	- / 15.335	- / 10.175	- / 3.777	- / -	- / 3.777	- / 5.199	- / 5.042	- / 4.841	- / 4.785	Continuing	Continuing	
Subtotal: Key Management (KM) - Ashore (DA005)	14,780 / 50.647	2,962 / 15.335	1,021 / 10.175	209 / 3.777	- / -	209 / 3.777	1,477 / 5.199	1,427 / 5.042	1,375 / 4.841	1,349 / 4.785	Continuing	Continuing	
Subtotal: Procurement, All Modification Items	- / 50.647	- / 15.335	- / 10.175	- / 3.777	- / -	- / 3.777	- / 5.199	- / 5.042	- / 4.841	- / 4.785	Continuing	Continuing	
Support (All Modification Items)													
2.1) Production Support	- / 2.682	- / 0.582	- / 0.450	- / 0.131	- / -	- / 0.131	- / 0.188	- / 0.178	- / 0.170	- / 0.168	Continuing	Continuing	
2.2) Pre-Design Install Planning	- / 1.058	- / 2.020	- / 4.664	- / 0.524	- / -	- / 0.524	- / -	- / -	- / -	- / -	- / -	- / 8.266	
Subtotal: Support	- / 3.740	- / 2.602	- / 5.114	- / 0.655	- / -	- / 0.655	- / 0.188	- / 0.178	- / 0.170	- / 0.168	Continuing	Continuing	
Installation													
Modification Item 1 of 1: Key Management (KM) - Ashore (DA005)	- / 6.755	- / 0.650	- / 4.550	- / 9.550	- / -	- / 9.550	- / 0.400	- / -	- / -	- / -	- / -	- / 21.905	
Subtotal: Installation	- / 6.755	- / 0.650	- / 4.550	- / 9.550	- / -	- / 9.550	- / 0.400	- / -	- / -	- / -	- / -	- / 21.905	
Total													
Total Cost (Procurement + Support + Installation)	61.142	18.587	19.839	13.982	-	13.982	5.787	5.220	5.011	4.953	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Navy							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15				P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)				Modification Number / Title: 6 / Key Management (KM) - Ashore (DA005)				
Modification Item 1 of 1: Key Management (KM) - Ashore (DA005)												
Manufacturer Information												
Manufacturer Name: Simple Key Loader (SKL) - Army Managed							Manufacturer Location: Fort Huachuca, AZ					
Administrative Leadtime (in Months): 4							Production Leadtime (in Months): 2					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Feb 2014	Feb 2015	Feb 2016									
Delivery Dates	Apr 2014	Apr 2015	Apr 2016									
Manufacturer Name: KMI Spiral 1 & 2 - NSA Managed							Manufacturer Location: Fort Meade, MD					
Administrative Leadtime (in Months): 5							Production Leadtime (in Months): 4					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Mar 2014	Mar 2015	Mar 2016									
Delivery Dates	Jul 2014	Jul 2015	Jul 2016									
Manufacturer Name: KMI Suite - NSA Managed							Manufacturer Location: Fort Meade, MD					
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 0					
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020					
Contract Dates	Mar 2014											
Delivery Dates	Jul 2014											
Installation Information												
Method of Implementation: Installed:: Installation Name: Key Management Infrastructure (KMI) - Shore												
Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	554 / 6.755	13 / 0.650	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	567 / 7.405
FY 2014	- / -	- / -	108 / 2.950	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	108 / 2.950
FY 2015	- / -	- / -	43 / 1.600	212 / 8.200	- / -	212 / 8.200	- / -	- / -	- / -	- / -	- / -	255 / 9.800
FY 2016	- / -	- / -	- / -	27 / 1.350	- / -	27 / 1.350	78 / 0.400	- / -	- / -	- / -	- / -	105 / 1.750
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	554 / 6.755	13 / 0.650	151 / 4.550	239 / 9.550	- / -	239 / 9.550	78 / 0.400	- / -	- / -	- / -	- / -	1,035 / 21.905

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Exhibit P-3a, Individual Modification: PB 2016 Navy																Date: February 2015									
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15								P-1 Line Item Number / Title: 3415 / Info Systems Security Program (ISSP)								Modification Number / Title: 6 / Key Management (KM) - Ashore (DA005)									

Modification Item 1 of 1: Key Management (KM) - Ashore (DA005)

Installation Information

Method of Implementation: Installed:: Installation Name: Key Management Infrastructure (KMI) - Shore

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	554	-	8	5	-	1	48	59	43	71	84	57	27	16	25	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,035
Out	554	-	7	6	-	1	48	59	43	71	84	57	27	16	10	31	21	-	-	-	-	-	-	-	-	-	-	-	-	-	1,035

Method of Implementation (Organic): Not Installed - Key Management (KM) (PY)	Installation Quantity: 7816

Method of Implementation (Organic): Not Installed - Simple Key Loader (SKL)	Installation Quantity: 15552

Method of Implementation (Organic): Not Installed - Key Management Infrastructure (KMI) Suite (MGC/AKP/HAPE)	Installation Quantity: 197

Footnotes:

⁽²⁷⁾ Simple Key Loader (SKL) quantities adjusted to maintain inventory objective.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 15: Cryptographic Equipment							P-1 Line Item Number / Title: 3417 / MIO Intel Exploitation Team					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	1.000	0.979	0.970	-	0.970	0.969	0.969	0.988	1.008	-	6.883
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	1.000	0.979	0.970	-	0.970	0.969	0.969	0.988	1.008	-	6.883
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	1.000	0.979	0.970	-	0.970	0.969	0.969	0.988	1.008	-	6.883
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: [P40A / 343SA - MIO Intel Exploitation Team (U.S. Fleet Forces Command)]: Tactical Electronic Warfare Equipment: Procure Tactical Electronic Warfare (EW) equipment to be used in support of Indications and Warning and Force Protection. The capability includes an array of Tactical EW systems capable of both digital and analogue collection in the Radio Frequency (RF) environment. Specific collection capabilities include Digital and Analogue data collection; Specific Emitter ID, which discerns unique attributes of specific radar; Satellite Communication capability; Wireless Networks to conduct surveys, which is a telecom network mapping, and Document and Media Exploitation allowing capture of media from electronic devices.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 15: Cryptographic Equipment				P-1 Line Item Number / Title: 3417 / MIO Intel Exploitation Team				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
MIO Intel Exploitation Team	P-40a, P-5a		- / 0.000	- / 1.000	- / 0.979	- / 0.970	- / -	- / 0.970
Total Gross/Weapon System Cost			- / 0.000	- / 1.000	- / 0.979	- / 0.970	- / -	- / 0.970
*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 add due to rounding.								

Justification:

Funding required for the procurement of Wireless Networks Telcom Equipment, Specific Emitter Identification Devices, Digital/Analogue Collection Devices, Wireless Receiving Systems and LANSHARK 5 in support of indications and warning and Force Protection.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15									P-1 Line Item Number / Title: 3417 / MIO Intel Exploitation Team						Aggregated Items Title: MIO Intel Exploitation Team				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
1) 343SA - MIO Intel Exploitation Team (U.S. Fleet Forces Command)																				
1.1) 343SA - Satellite Communications Equipment ^(†)	A		-	-	-	0.155	3	0.465	-	-	-	-	-	-	-	-	-	-	-	-
1.2) 343SA - Wireless Networks Mapping Equipment / Surveys ^(†)	A		-	-	-	0.178	3	0.534	-	-	-	-	-	-	-	-	-	-	-	-
1.3) 343SA - Wireless Networks Telcom Equipment ^(†)	A		-	-	-	-	-	-	0.151	3	0.454	-	-	-	-	-	-	-	-	-
1.4) 343SA - Specific Emitter Identification Devices ^(†)	A		-	-	-	-	-	-	0.175	3	0.525	-	-	-	-	-	-	-	-	-
1.5) 343SA - Digital / Analogue Collection Devices	A		-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-
1.6) DRT 1301C+/ TRS V7 Wireless Receiving System ^(†)	A		-	-	-	-	-	-	-	-	-	0.124	7	0.868	-	-	-	0.124	7	0.868
1.7) LANSHARK 5 ^(†)	A		-	-	-	-	-	-	-	-	-	0.051	2	0.102	-	-	-	0.051	2	0.102
Subtotal: 1) 343SA - MIO Intel Exploitation Team (U.S. Fleet Forces Command)			-	-	0.000	-	-	1.000	-	-	0.979	-	-	0.970	-	-	-	-	-	0.970
Total			-	-	0.000	-	-	1.000	-	-	0.979	-	-	0.970	-	-	-	-	-	0.970

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy	Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 15	P-1 Line Item Number / Title: 3417 / MIO Intel Exploitation Team	Aggregated Items: MIO Intel Exploitation Team

Item Number / Title [DODIC]	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) 343SA - MIO Intel Exploitation Team (U.S. Fleet Forces Command)												
1.1) 343SA - Satellite Communications Equipment		2014	Commercial Off-the-Shelf Technology / Various	C / FFP	Tactical Support Group-Intermediary, NS Norfolk	Jan 2014	May 2014	3	0.155	N		
1.2) 343SA - Wireless Networks Mapping Equipment / Surveys		2014	Commercial Off-the-Shelf Technology / Various	C / FFP	Tactical Support Group-Intermediary, NS Norfolk	Jan 2014	May 2014	3	0.178	N		
1.3) 343SA - Wireless Networks Telcom Equipment		2015	Commercial Off-the-Shelf Technology / Various	C / IDIQ	NAVSEA/CDSA	Jan 2015	Mar 2015	3	0.151	N		
1.4) 343SA - Specific Emitter Identification Devices		2015 (1)	Government off the shelf / Various	MIPR	Various	Jan 2015	Mar 2015	3	0.175	N		
1.6) DRT 1301C+/TRS V7 Wireless Receiving System		2016	Digital Receiver Technology / New MFG - Loc	C / IDIQ	NAVSEA/CDSA	Oct 2015	Oct 2015	7	0.124	N		
1.7) LANSHARK 5		2016	SR Technologies Inc. / New MFG - Loc	C / IDIQ	NAVSEA/CDSA	Oct 2015	Oct 2015	2	0.051	N		

Footnotes:

(1) Procurement provider will be determined at later date.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 16: Cryptologic Equipment							P-1 Line Item Number / Title: 3501 / Cryptologic Communications Equip					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	36.801	12.251	11.502	11.433	-	11.433	10.664	10.821	11.004	11.255	-	115.731
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	36.801	12.251	11.502	11.433	-	11.433	10.664	10.821	11.004	11.255	-	115.731
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	36.801	12.251	11.502	11.433	-	11.433	10.664	10.821	11.004	11.255	-	115.731
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
[P5 / 1V045 Access Systems & Subsystems]: Cryptologic Carry-On Equipment: The Cryptologic Carry-On Program (CCOP) procures state-of-the-art, commercial off-the-shelf signal acquisition equipment (hardware and software) in response to combatant commander requirements for a quick-reaction surface, subsurface, and airborne cryptologic carry-on capability. The equipment is procured according to the overall requirements detailed in the Shipboard Information Warfare/Cryptologic System Operational Requirements Document and specific execution year fleet requirements as defined by the Signals Of Interest (SOI) Integrated Product Team (IPT) and in concert with Shipboard Signals Exploitation Space (SSES) programs to ensure synergy and seamless transition to permanently installed SSES systems. The IPT meets several times a year and determines which SOIs/Targets on the United States Fleet Forces (USFF) SOI list need to be addressed. Due to a continually changing threat environment, detailed requirements are dynamic and equipment procured varies each year by quantity and type. Equipment suites can be configured for many targets and tasking. Target specific subsystems can either operate as stand-alone within cryptologic spaces or as an add-on to existing equipment. Hardware procurement includes: receivers, recorders, tactical computers and related peripherals, antennas, electronic-warfare support measures systems, precision geolocation equipment, advanced signal and search equipment including spectrum analyzers and associated portable special intelligence communications equipment. CCOP equipment is installed as an augment to cryptologic capabilities on subsurface, surface, and air platforms. There are approximately 124 cryptologic capable surface ships and shore sites in the current Navy inventory. Each of these are potential users of this carry-on equipment, as are subsurface and air platforms. The temporary installation of equipment is coordinated through fleet electronic support personnel; inventory allocation is managed by USFF. A primary system in inventory is the Carry On Radio Spectrum Analysis & Intelligence Reporting (CORSAIR) system. Funds continue to procure CORSAIR core architecture system upgrades to provide additional affordable functionality to the combatant commands. Additional signal acquisition equipment to address specific combatant command requirements include such systems as Digital Receiver Technology (DRT), Hostile forces Integrated Targeting Service (HITS), Maritime Toxic Pen (MTP), TURBULENTWAVE/TURBULENTWIND/TURBULENTSAIL, BLUESTREAM servers, RED FALCON/VULCAN, STINGRAY, MUDCAT, Toxic Fog, Radio Frequency Distribution Unit (RFDU), TEAPARTY/TEALEAF, and Generic Area Limitations Environment (GALE)-Lite. This line supports the procurement of STALLION hardware for CCOP team training.												
[P5 / GDX6D - Global Signal Analysis Equipment]: Global Signal Analysis Laboratory (GSAL): The Navy GSAL program, under project name CLASSIC SENSEI, provides for the timely analysis of data derived from maritime mobile Information Warfare (IW) operations. GSAL support is conducted by Signals Analysis Laboratories (SAL) co-located with Fleet Information Operations Centers (FIOC) at theater-level analysis and processing centers and by QuickLook/Nodes forward-based at fleet concentration areas. The GSAL program office equips the SALs with advanced signals analysis capabilities in order to accomplish the high order analysis that is required to effectively address SAL processing and exploitation requirements in support of both maritime tactical and national strategic IW objectives. Additionally, SALs are equipped with specialized capabilities to support FIOC maritime Signal Descriptor File (SDF) requirements. Funding is required to maintain and sustain SAL operations while allowing for upgrades required to integrate new technology to accommodate the highly technical analysis requirements attendant with a highly diverse and constantly changing electromagnetic environment. Additionally, Navy SALs are integral components of the global collaborative enterprise architecture via the GSAL LABLINK data handling subsystem. LABLINK provides for advanced data manipulation, achieving, and forwarding/exchange while providing connectivity and global reachback in support of analysis with collaborating military, national, and international partners via signal screening and processing tools resident in LABLINK.												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 16: Cryptologic Equipment		P-1 Line Item Number / Title: 3501 / Cryptologic Communications Equip
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
[P5 / GDX6D - System Integration and Installation of Hardware]: Fleet Information Operations Centers (FIOC): There are FIOCs co-located with National Security Agency (NSA) Cryptologic Centers supporting the geographical Satellite Communication Network (SATCOM). Each are charged with providing regionally focused Information Operation (IO) and Signal Intelligence (SIGINT) support to Fleet Commanders. FIOCs leverage NSA capabilities, analysis, and manpower in support of Fleet requirements. Funds are required for purchasing and maintaining life cycle support for command and control systems connected to SCI networks at the FIOCs. Funds are also provided to develop and maintain a common baseline of analytical intelligence software tools supporting FIOC capability areas as defined in the FIOC operational strategy (OPSTRAT).		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 16: Cryptologic Equipment				P-1 Line Item Number / Title: 3501 / Cryptologic Communications Equip				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
1 / Cryptologic Communications Equip	P-5, P-5a, P-21		- / 36.801	- / 12.251	- / 11.502	- / 11.433	- / -	- / 11.433
Total Gross/Weapon System Cost			- / 36.801	- / 12.251	- / 11.502	- / 11.433	- / -	- / 11.433
*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 add due to rounding.								

Justification:

FY16 funds will continue to satisfy signals exploitation capability gaps as determined by the CCOP Signals of Interest (SOI) Integrated Product Team (IPT). At this time the recommendations for procurements that are best suited to address identified gaps may include: Digital Receiver Technology (DRT), Hostile forces Integrated Targeting Service (HITS), Maritime Toxic Pen (MTP), TURBULENTWAVE/TURBULENTWIND/TURBULENTSAIL, BLUESTREAM servers, RED FALCON/VULCAN, STINGRAY, MUDCAT, Toxic Fog, Radio Frequency Distribution Unit (RFDU), TEAPARTY/TEALEAF, and Generic Area Limitations Environment (GALE)-Lite. This line supports the procurement of STALLION hardware for CCOP team training.

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Exhibit P-5, Cost Analysis: PB 2016 Navy												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 16						P-1 Line Item Number / Title: 3501 / Cryptologic Communications Equip						Item Number / Title [DODIC]: 1 / Cryptologic Communications Equip						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				36.801		12.251		11.502		11.433		-		11.433				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				36.801		12.251		11.502		11.433		-		11.433				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				36.801		12.251		11.502		11.433		-		11.433				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware - 1V045 Access Systems & Subsystems Cost																		
Recurring Cost																		
1.1.1) CCOP Systems & Subsystems ^(†) (1)	254.314	121	30.772	237.140	43	10.197	235.500	41	9.656	235.561	40	9.422	-	-	-	235.561	40	9.422
Subtotal: Recurring Cost	-	-	30.772	-	-	10.197	-	-	9.656	-	-	9.422	-	-	-	-	-	9.422
Subtotal: Hardware - 1V045 Access Systems & Subsystems Cost	-	-	30.772	-	-	10.197	-	-	9.656	-	-	9.422	-	-	-	-	-	9.422
Hardware - GDX6D - Global Signal Analysis Equipment Cost																		
Recurring Cost																		
2.1.1) Global Signal Analysis Laboratory (GSAL) ^(†)	-	-	3.103	1,090.000	1	1.090	998.000	1	0.998	726.000	1	0.726	-	-	-	726.000	1	0.726
Subtotal: Recurring Cost	-	-	3.103	-	-	1.090	-	-	0.998	-	-	0.726	-	-	-	-	-	0.726
Subtotal: Hardware - GDX6D - Global Signal Analysis Equipment Cost	-	-	3.103	-	-	1.090	-	-	0.998	-	-	0.726	-	-	-	-	-	0.726
Hardware - GDX6D - System Integration and Installation of Hardware Cost																		
Recurring Cost																		
3.1.1) System Integration & Installation of Hardware (FIOC) ^(†)	451.667	3	1.355	445.000	1	0.445	428.000	1	0.428	728.000	1	0.728	-	-	-	728.000	1	0.728
Subtotal: Recurring Cost	-	-	1.355	-	-	0.445	-	-	0.428	-	-	0.728	-	-	-	-	-	0.728

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Exhibit P-5, Cost Analysis: PB 2016 Navy													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 16						P-1 Line Item Number / Title: 3501 / Cryptologic Communications Equip							Item Number / Title [DODIC]: 1 / Cryptologic Communications 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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Hardware - GDX6D - System Integration and Installation of Hardware Cost	-	-	1.355	-	-	0.445	-	-	0.428	-	-	0.728	-	-	-	-	-	0.728
Support - 1V555 Production Support Cost																		
4.1) Production Support	-	-	1.571	-	-	0.519	-	-	0.420	-	-	0.557	-	-	-	-	-	0.557
Subtotal: Support - 1V555 Production Support Cost	-	-	1.571	-	-	0.519	-	-	0.420	-	-	0.557	-	-	-	-	-	0.557
Gross/Weapon System Cost	-	-	36.801	-	-	12.251	-	-	11.502	-	-	11.433	-	-	-	-	-	11.433

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

Footnotes:

(1) Quantity and unit cost of CCOP systems and subsystems vary because procurements are in response to current Combatant Command fleet requirements as well as the Signals of Interest (SOI) and target threat list which is updated twice a year. CCOP system and subsystem unit costs range from \$.050M to \$.900M, with the exception of Maritime Toxic Pen (MTP) which is priced at \$2.150M per system. The unit cost listed above represents the average price per system.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 16			P-1 Line Item Number / Title: 3501 / Cryptologic Communications Equip						Item Number / Title [DODIC]: 1 / Cryptologic Communications 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 (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) CCOP Systems & Subsystems ^(†)		2014 (2)	VARIOUS ⁽³⁾ / VARIOUS	Various	SSC PAC/SSC LANT	Feb 2014	Jul 2014	43	237.140	N	Apr 2014	Oct 2013
1.1.1) CCOP Systems & Subsystems ^(†)		2015	VARIOUS ⁽³⁾ / VARIOUS	Various	SSC PAC/SSC LANT	Feb 2015	Jul 2015	41	235.500	N	Apr 2015	Oct 2014
1.1.1) CCOP Systems & Subsystems ^(†)		2016	VARIOUS ⁽³⁾ / VARIOUS	Various	SSC PAC/SSC LANT	Feb 2016	Jul 2016	40	235.561	N	Apr 2016	Oct 2015
2.1.1) Global Signal Analysis Laboratory (GSAL)		2014	Government / UNKNOWN	MIPR	SPAWAR San Diego	Apr 2014	Jul 2014	1	1,090.000	N	Dec 2015	
2.1.1) Global Signal Analysis Laboratory (GSAL)		2015	Government / UNKNOWN	Various	SPAWAR San Diego	Apr 2015	Jul 2015	1	998.000	N	Nov 2016	
2.1.1) Global Signal Analysis Laboratory (GSAL)		2016	Government / UNKNOWN	C / TBD	** NO PCO **	Oct 2015	Oct 2015	1	726.000	N	Nov 2016	
3.1.1) System Integration & Installation of Hardware (FIOC)		2014	SPAWAR / San Diego	Various	SPAWAR San Diego	Apr 2014	Jul 2014	1	445.000	N		
3.1.1) System Integration & Installation of Hardware (FIOC)		2015	SPAWAR / San Diego	Various	SPAWAR San Diego	Apr 2015	Jul 2015	1	428.000	N		

^(†) indicates the presence of a P-21

Footnotes:

⁽²⁾ FY14 Vendors: Digital Receiver Technologies, BIT systems, Out of the Fog, KAB

⁽³⁾ CCOP equipment is procured according to the overall requirements detailed in the Shipboard Information Warfare/Cryptologic System Operational Requirements Document and specific execution year fleet requirements as defined by the Signals Of Interest (SOI) Integrated Product Team (IPT). Due to a continually changing threat environment, detailed requirements are dynamic, contract award timelines and equipment procured varies each year by quantity and type.

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Exhibit P-21, Production Schedule: PB 2016 Navy																							Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 16											P-1 Line Item Number / Title: 3501 / Cryptologic Communications Equip											Item Number / Title [DODIC]: 1 / Cryptologic Communications Equip									
Cost Elements (Units in Each)							Fiscal Year 2014											Fiscal Year 2015													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014											Calendar Year 2015													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
1.1.1) CCOP Systems & Subsystems ⁽¹⁾																															
Prior Years Deliveries: 121																															
	1	2014	NAVY	43	-	43					A -	-	-	-	-	5	5	5	5	5	6	6	6								-
	1	2015	NAVY	41	-	41																A -	-	-	-	-	5	5	5	26	
	1	2016	NAVY	40	-	40																							40		
							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

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Exhibit P-21, Production Schedule: PB 2016 Navy																				Date: February 2015														
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 16										P-1 Line Item Number / Title: 3501 / Cryptologic Communications Equip										Item Number / Title [DODIC]: 1 / Cryptologic Communications Equip														
Cost Elements (Units in Each)							Fiscal Year 2016													Fiscal Year 2017														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 5	BAL DUE AS OF 1 OCT				Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			
1.1.1) CCOP Systems & Subsystems ⁽¹⁾																																		
Prior Years Deliveries: 121																																		
	1	2014	NAVY		43	43	-																											-
	1	2015	NAVY		41	15	26	5	5	5	6	5																						-
	1	2016	NAVY		40	-	40					A -	-	-	-	-	5	5	5	5	5	5	5	5	5									-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Navy									Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 16					P-1 Line Item Number / Title: 3501 / Cryptologic Communications Equip				Item Number / Title [DODIC]: 1 / Cryptologic Communications Equip			
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	VARIOUS ⁽³⁾ - VARIOUS	1	40	50	-	4	5	9	-	1	5	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).

Footnotes:

⁽³⁾ CCOP equipment is procured according to the overall requirements detailed in the Shipboard Information Warfare/Cryptologic System Operational Requirements Document and specific execution year fleet requirements as defined by the Signals Of Interest (SOI) Integrated Product Team (IPT). Due to a continually changing threat environment, detailed requirements are dynamic, contract award timelines and equipment procured varies each year by quantity and type.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 17: Other Electronic Support							P-1 Line Item Number / Title: 3620 / Coast Guard Equipment					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	96.597	2.893	2.967	2.529	-	2.529	3.702	7.180	6.963	7.109	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	96.597	2.893	2.967	2.529	-	2.529	3.702	7.180	6.963	7.109	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	96.597	2.893	2.967	2.529	-	2.529	3.702	7.180	6.963	7.109	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	0.092	0.095	-	-	-	-	-	-	-	-	0.187
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
The FY 2016 funding request was reduced by \$0.936 million to account for the availability of prior year execution balances.												
The Coast Guard Equipment line funds the Coast Guard Combat System Suite for United States Coast Guard (USCG) cutters under the Coast Guard Surface Asset Acquisition Program. Under inter-service agreement (delineated in OPNAVINST 4000.79B), DON plans, programs, and budgets for specific Navy military equipment, systems and logistic support requirements for Coast Guard units to ensure the Coast Guard is prepared to execute naval warfare tasks in consonance with US Navy units. Ship construction and installation costs are funded under the Department of Homeland Security appropriation.												
The Combat Systems and Weapons Suite will be aligned with future naval ship building programs to support commonality among the two Service's systems and meet National Fleet objectives.												
The Combat System Suite must compliment and integrate with Navy Combat Systems. The suite is an appropriate balance of equipment to ensure the Coast Guard is prepared to accomplish the assigned Naval Warfare tasks in concert with US Navy units. The Surface Asset Acquisition Program Combat Suites include the following:												
CG001 - SPQ-9B RADAR The AN/SPQ-9B radar is procured for the Maritime Security Cutter, Large (WMSL) Class, aka the National Security Cutter (NSC) Class, to track surface targets and low fliers in support of potential gun engagements.												
CG002 - IFF AIMS The AN/UPX-29A Identification Friend or Foe (IFF) System is procured for the WMSL Class. The AN/APX-123 Transponder is procured for the Fast Response Cutter aka Patrol Coastal Cutter (WPC).												
CG003 - MK 53 DECOY LAUNCHING SYSTEM The MK 53 Mod 6 Decoy Launching System (DLS) is procured for WMSL to provide soft-kill capability.												
CG004 - SLQ-32 The AN/SLQ-32 Electronic Warfare (EW) System and the Battleforce Electronic Warfare Trainer (BEWT) are procured for the WMSL to perform Electronic Support Measures to support soft-kill measures.												
CG005 - MK 46/MK 20 OPTICAL SIGHT												

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 17: Other Electronic Support		P-1 Line Item Number / Title: 3620 / Coast Guard Equipment
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
The MK 46 Mod 1 Optical Sighting System (OSS) is being procured for WMSL 750-753. The MK 20 Mod 0 Electro-Optical Sighting System (EOSS) is being procured for WMSL 754-757. These sighting systems are a component of the MK48 Gun Weapon System and provide fire control optical daytime and thermal imaging (infrared) sensor, and laser range finding to support engagements of hostile surface and air targets. CG006 - COMBAT SYSTEM INTEGRATION Ensure successful integration and system interoperability of Navy type equipment that affects the Combat System of US Coast Guard cutters.		

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Exhibit P-40, Budget Line Item Justification: PB 2016 Navy							Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 17: Other Electronic Support					P-1 Line Item Number / Title: 3620 / Coast Guard Equipment			
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
Coast Guard Equipment	P-40a, P-5a		- / 96.597	- / 2.893	- / 2.967	- / 2.529	- / -	- / 2.529
Total Gross/Weapon System Cost			- / 96.597	- / 2.893	- / 2.967	- / 2.529	- / -	- / 2.529
*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 add due to rounding.								
Justification: Funds procure Navy Type/Navy Owned (NT/NO) combat systems, support equipment, Integrated Logistics Support (ILS), certification, test and production support for USCG National Security Cutters (WMSLs) and Fast Response Cutters (FRCs) being constructed under the Coast Guard Surface Asset Acquisition Program. These efforts are ongoing. FY2016 funds provide IFF ILS and certification for FRCs 1116-1119; IFF ILS and certification for WMSLs 755-757; MK53 DLS production engineering for WMSLs 754-757; and combat system integration for WMSLs 755-757 and FRCs 1116-1119.								

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 17						P-1 Line Item Number / Title: 3620 / Coast Guard Equipment									Aggregated Items Title: Coast Guard Equipment ⁽¹⁾					
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																				
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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) CG001 - SPQ-9B RADAR																				
1.1) ILS/TEST SUPPORT ⁽²⁾	A		-	-	5.613	-	-	-	-	-	0.272	-	-	-	-	-	-	-	-	-
Subtotal: 1) CG001 - SPQ-9B RADAR			-	-	5.613	-	-	-	-	-	0.272	-	-	-	-	-	-	-	-	-
2) IFF AIMS																				
2.1) IFF AIMS CERTIFICATION WPC	A		-	-	0.240	-	-	0.080	-	-	0.120	-	-	0.122	-	-	-	-	-	0.122
2.2) IFF AIMS WMSL	A		4,435K	2	8.870	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.3) IFF AIMS ILS SUPPORT WPC	A		-	-	0.775	-	-	0.201	-	-	0.065	-	-	0.210	-	-	-	-	-	0.210
2.4) IFF AIMS EQUIPMENT WPC ^(†)	A		110,300.00	20	2.206	123,000.00	4	0.492	125,000.00	2	0.250	128,000.00	3	0.384	-	-	-	128,000.00	3	0.384
2.7) IFF AIMS UPX-29 LLT WMSL	A		259,000.00	3	0.777	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.8) MODIFICATION KITS	A		81,250.00	4	0.325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.9) SUPPORT EQUIPMENT WMSL ^(†)	A		80,000.00	6	0.480	-	-	-	103,000.00	1	0.103	-	-	-	-	-	-	-	-	-
2.10) PRODUCTION SUPPORT WMSL	A		-	-	0.491	-	-	0.043	-	-	0.077	-	-	0.078	-	-	-	-	-	0.078
2.11) ILS/TEST SUPPORT WMSL	A		-	-	0.521	-	-	0.230	-	-	0.044	-	-	0.045	-	-	-	-	-	0.045
2.12) CERTIFICATION WMSL	A		-	-	0.240	-	-	0.071	-	-	0.073	-	-	0.076	-	-	-	-	-	0.076
Subtotal: 2) IFF AIMS			-	-	14.925	-	-	1.117	-	-	0.732	-	-	0.915	-	-	-	-	-	0.915
3) CG003 DECOYS MK 53																				
3.2) ILS/TEST SUPPORT	A		-	-	3.393	-	-	0.143	-	-	0.169	-	-	0.160	-	-	-	-	-	0.160
Subtotal: 3) CG003 DECOYS MK 53			-	-	3.393	-	-	0.143	-	-	0.169	-	-	0.160	-	-	-	-	-	0.160
4) CG004 SLQ-32																				
4.1) BEWT WMSL ⁽³⁾	A		847,000.00	1	0.847	-	-	0.086	-	-	0.041	-	-	0.131	-	-	-	-	-	0.131
4.2) SLQ-32	A		14,090K	2	28.180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.4) SLQ-32 REFURBISHMENT ^(†)	A		2,310K	3	6.931	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5) SUPPORT EQUIPMENT	A		159,000.00	1	0.159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 17								P-1 Line Item Number / Title: 3620 / Coast Guard Equipment							Aggregated Items Title: Coast Guard Equipment ⁽¹⁾				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
4.6) PRODUCTION SUPPORT ⁽⁴⁾	A		-	-	1.942	-	-	0.025	-	-	0.098	-	-	0.309	-	-	-	-	-	0.309
4.7) ILS/TEST SUPPORT	A		-	-	1.888	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.8) CERTIFICATION	A		-	-	0.338	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) CG004 SLQ-32			-	-	40.285	-	-	0.111	-	-	0.139	-	-	0.440	-	-	-	-	-	0.440
5) CG005 MK 46/MK 20 OPTICAL SIGHT																				
5.1) MODIFICATION KITS WMSL	A		-	-	0.297	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.3) MK 46/MK 20 WMSL	A		14,525K	1	14.525	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.4) DATA WMSL	A		-	-	0.286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.5) SOFTWARE WMSL	A		-	-	1.870	-	-	0.300	-	-	0.250	-	-	-	-	-	-	-	-	-
5.6) PROGRAM SUPPORT WMSL	A		-	-	1.363	-	-	0.226	-	-	0.043	-	-	-	-	-	-	-	-	-
5.7) ORDALT WMSL	A		-	-	0.770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.8) ILS/TEST SPT WMSL	A		-	-	1.723	-	-	0.300	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 5) CG005 MK 46/MK 20 OPTICAL SIGHT			-	-	20.834	-	-	0.826	-	-	0.293	-	-	-	-	-	-	-	-	-
6) CG006 COMBAT SYSTEM INTEGRATION																				
6.1) CSI	A		-	-	11.547	-	-	0.696	-	-	1.362	-	-	1.014	-	-	-	-	-	1.014
Subtotal: 6) CG006 COMBAT SYSTEM INTEGRATION			-	-	11.547	-	-	0.696	-	-	1.362	-	-	1.014	-	-	-	-	-	1.014
Total			-	-	96.597	-	-	2.893	-	-	2.967	-	-	2.529	-	-	-	-	-	2.529

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Navy		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 17	P-1 Line Item Number / Title: 3620 / Coast Guard Equipment	Aggregated Items Title: Coast Guard Equipment ⁽¹⁾

^(†) indicates the presence of a P-5a

Footnotes:

- ⁽¹⁾ The FY 2016 funding request was reduced by \$0.936 million to account for the availability of prior year execution balances.
- ⁽²⁾ FY2015 SPQ-9B ILS/Test Support funds provide delivery/installation/check-out support for the WMSL 755 AN/SPQ-9B radar.
- ⁽³⁾ FY2016 BEWT funds support engineering efforts associated with WMSL 756 system installation, inspection, and acceptance.
- ⁽⁴⁾ The increase in SLQ-32 Production Support from FY2015 to FY2016 is attributed to the number of Maritime Security Cutter, Large (WMSL) Class vessels being supported. FY2015 funds support efforts associated with material control and shipment of the WMSL 755 AN/SLQ-32 system. FY2016 funds support engineering efforts associated with the WMSL 756 and WMSL 757 AN/SLQ-32 system installation, inspection, and acceptance.

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Exhibit P-5a, Procurement History and Planning: PB 2016 Navy								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 17				P-1 Line Item Number / Title: 3620 / Coast Guard Equipment				Aggregated Items: Coast Guard 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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2) IFF AIMS												
2.4) IFF AIMS EQUIPMENT WPC		2014	NAVAIR NAWC/AD / ST. INIGOES, MD	WR	NAVAIR	Mar 2014	Sep 2015	4	123,000.00	Y		Nov 2007
2.4) IFF AIMS EQUIPMENT WPC		2015	NAVAIR NAWC/AD / ST. INIGOES, MD	WR	NAVAIR	Jan 2015	Jul 2016	2	125,000.00	Y		Nov 2007
2.4) IFF AIMS EQUIPMENT WPC		2016	NAVAIR NAWC/AD / ST. INIGOES, MD	WR	NAVAIR	Jan 2016	Jul 2017	3	128,000.00	Y		Nov 2007
2.9) SUPPORT EQUIPMENT WMSL		2015	NAVAIR NAWC/AD / ST. INIGOES, MD	WR	NAVAIR	Mar 2015	Sep 2016	1	103,000.00	Y		Nov 2007
4) CG004 SLQ-32												
4.4) SLQ-32 REFURBISHMENT		2013	VARIOUS / VARIOUS	Various	NAVSEA	Jan 2014	Jul 2015	1	981,000.00	Y		Sep 2007

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