Department of Defense
Fiscal Year (FY) 2025 Budget Estimates

March 2024

Navy

Justification Book Volume 4 of 5

Other Procurement, Navy

Budget Activity 04

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Table of Volumes

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Volume 4 Table of Contents

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OPN 1	The estimated cost of this report for the Department of the Navy (DON) is $56,403. The estimated total cost for supporting the DON budget justification material is approximately $3,070,790 during the 2024 fiscal year. This includes $199,436 in supplies and $2,871,355 in labor.
OPN 2	The estimated cost of this report for the Department of the Navy (DON) is $97,552. The estimated total cost for supporting the DON budget justification material is approximately $3,070,790 during the 2024 fiscal year. This includes $199,436 in supplies and $2,871,355 in labor.
OPN 3	The estimated cost of this report for the Department of the Navy (DON) is $22,381. The estimated total cost for supporting the DON budget justification material is approximately $3,070,790 during the 2024 fiscal year. This includes $199,436 in supplies and $2,871,355 in labor.
OPN 4	The estimated cost of this report for the Department of the Navy (DON) is $37,302. The estimated total cost for supporting the DON budget justification material is approximately $3,070,790 during the 2024 fiscal year. This includes $199,436 in supplies and $2,871,355 in labor.
OPN 5-8	The estimated cost of this report for the Department of the Navy (DON) is $28,369. The estimated total cost for supporting the DON budget justification material is approximately $3,070,790 during the 2024 fiscal year. This includes $199,436 in supplies and $2,871,355 in labor.

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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, $15,877,253,000, to remain available for obligation until September 30, 2027, of which $1,046,000 shall be available for the Navy Reserve and the Marine Corps Reserve: Provided, That such funds are also available for the maintenance, repair, and modernization of ships.

Fiscal Year (FY) 2025 Overseas Operations Costs funding accounted for in the Base budget total [$28,616,000].

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Department of Defense
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
DoD Component Summary
(Dollars in Thousands)

Appropriation Summary	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments*	FY 2025 Request
Other Procurement, Navy	12,157,055	12,138,590	15,877,253
Total Department of the Navy	**12,157,055**	**12,138,590**	**15,877,253**
Grand Total Department of Defense	**12,157,055**	**12,138,590**	**15,877,253**

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
Navy Summary
(Dollars in Thousands)

Appropriation Summary	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments*	FY 2025 Request
Other Procurement, Navy	12,157,055	12,138,590	15,877,253
Total Department of the Navy	**12,157,055**	**12,138,590**	**15,877,253**

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N BA Summary
(Dollars in Thousands)

Appropriation: **Other Procurement, Navy**	FY 2023 Actuals	FY 2024 PB Request with CR Adjustments*	FY 2025 Request
Budget Activity			
01. Ships support equipment	4,710,060	5,776,998	6,481,622
02. Communications and electronics equipment	3,336,672	3,967,071	4,008,829
03. Aviation support equipment	955,502	924,487	874,656
04. Ordnance support equipment	1,201,994	1,256,530	1,384,757
05. Civil engineering support equipment	168,297	183,019	281,576
06. Supply support equipment	658,100	699,764	1,016,915
07. Personnel and command support equipment	542,391	611,488	545,477
08. Spares and repair parts	584,039	1,115,900	1,283,421
20. Undistributed		-2,396,667	
Total Other Procurement, Navy	**12,157,055**	**12,138,590**	**15,877,253**

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy			FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
	Budget Activity 01: Ships support equipment								
	Ship Propulsion Equipment								
1	Surface Power Equipment	A	U		46,478		14,003		20,840
	Generators								
2	Surface Combatant HM&E	A	U		74,585		105,441		82,937
	Navigation Equipment								
3	Other Navigation Equipment	A	U		87,800		110,286		102,288
	Other Shipboard Equipment								
4	Sub Periscope, Imaging and Supt Equip Prog	A	U		261,011		262,951		294,625
5	DDG Mod	A	U		741,354		628,532		861,066

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
6	Firefighting Equipment	A	U		18,552		34,782		38,521
7	Command and Control Switchboard	A	U		2,406		2,458		2,402
8	LHA/LHD Midlife	A	U		38,200		104,369		81,602
9	LCC 19/20 Extended Service Life Program	A	U		20,028		10,529		7,352
10	Pollution Control Equipment	B	U		11,607		23,272		23,440
11	Submarine Support Equipment	A	U		116,575		112,526		293,766
12	Virginia Class Support Equipment	A	U		32,300		32,076		43,565
13	LCS Class Support Equipment		U		22,238		18,832		7,318
14	Submarine Batteries		U		24,137		28,221		30,470
15	LPD Class Support Equipment		U		53,350		91,890		38,115
16	DDG 1000 Class Support Equipment	A	U		314,333		232,124		407,468

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Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
17	Strategic Platform Support Equip	A	U		13,504		25,058		53,931
18	DSSP Equipment	A	U		3,660		4,623		4,586
19	CG Modernization	A	U		59,054				
20	LCAC	A	U		17,452		10,794		11,013
21	Underwater EOD Equipment		U		35,372		19,549		16,650
22	Items Less Than $5 Million	A	U		60,812		86,001		66,351
23	Chemical Warfare Detectors	A	U		3,202		3,288		3,254
	Reactor Plant Equipment								
24	Ship Maintenance, Repair and Modernization	A	U		1,642,532		2,746,313		2,392,190
25	Reactor Power Units	A	U		4,690		2,016		

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Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
26	Reactor Components	A	U		408,989		390,148		445,974
	Ocean Engineering								
27	Diving and Salvage Equipment	A	U		11,773		18,086		17,499
	Small Boats								
28	Standard Boats	A	U		88,562		74,963		400,892
	Production Facilities Equipment								
29	Operating Forces Ipe	A	U		173,643		187,495		237,036
	Other Ship Support								
30	LCS Common Mission Modules Equipment		U		54,883		49,060		56,105
31	LCS MCM Mission Modules		U		92,495		93,961		118,247
32	LCS ASW Mission Modules		U		3,594				

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
33	LCS SUW Mission Modules		U		5,100		12,102		11,101
34	LCS In-Service Modernization	A	U		101,526		171,704		205,571
35	Small & Medium UUV	A	U		49,763		61,951		48,780
	Logistic Support								
36	LSD Midlife & Modernization		U		14,500		7,594		56,667
	Total Ships support equipment				**4,710,060**		**5,776,998**		**6,481,622**
	Budget Activity 02: Communications and electronics equipment								
	Ship Sonars								
37	SPQ-9B Radar	A	U		12,063		7,267		7,402
38	AN/SQQ-89 Surf ASW Combat System	A	U		140,157		138,065		134,637
39	SSN Acoustic Equipment	A	U		446,648		463,577		502,115

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Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
40	Undersea Warfare Support Equipment	A	U		17,424		23,452		16,731
	ASW Electronic Equipment								
41	Submarine Acoustic Warfare System	A	U		31,708		46,726		55,484
42	SSTD	A	U		14,325		14,560		9,647
43	Fixed Surveillance System	A	U		266,228		420,069		405,854
44	SURTASS	A	U		25,030		33,910		45,975
	Electronic Warfare Equipment								
45	AN/SLQ-32	A	U		291,832		329,513		184,349
	Reconnaissance Equipment								
46	Shipboard IW Exploit	A	U		289,972		379,230		362,099

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Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
47	Automated Identification System (AIS)		U		2,487		4,082		4,680
	Other Ship Electronic Equipment								
48	Cooperative Engagement Capability	B	U		33,198		37,677		26,644
49	Naval Tactical Command Support System (NTCSS)	A	U		19,038		15,374		13,614
50	ATDLS	A	U		70,873		50,148		68,458
51	Navy Command and Control System (NCCS)		U		4,120		3,918		3,645
52	Minesweeping System Replacement	A	U		16,310		16,814		16,812
53	Navstar GPS Receivers (SPACE)	A	U		30,439		37,319		41,458
54	American Forces Radio and TV Service	A	U		2,724		2,750		3,803
55	Strategic Platform Support Equip	A	U		6,266		6,437		
	Aviation Electronic Equipment								

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Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
56	Ashore ATC Equipment	A	U		89,396		89,237		90,586
57	Afloat ATC Equipment	A	U		79,591		90,487		75,508
58	ID Systems	A	U		59,226		59,234		59,602
59	Joint Precision Approach And Landing System (		U		8,186		3,343		7,287
60	Naval Mission Planning Systems	A	U		25,092		39,180		46,106
	Other Shore Electronic Equipment								
61	Maritime Integrated Broadcast System		U		3,520		6,994		7,809
62	Tactical/Mobile C4I Systems	A	U		27,434		52,026		65,113
63	DCGS-N	A	U		15,606		16,579		16,946
64	CANES		U		404,665		467,587		440,207

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
65	RADIAC	A	U		7,647		16,475		38,688
66	CANES-Intell		U		48,665		48,207		50,654
67	GPETE	A	U		23,479		25,761		32,005
68	MASF		U		11,792		16,475		24,361
69	Integ Combat System Test Facility	A	U		6,053		6,345		6,709
70	EMI Control Instrumentation	A	U		4,219		4,282		4,081
71	Items Less Than $5 Million	A	U		83,745				
72	In-Service Radars and Sensors	A	U				255,256		228,910
	Shipboard Communications								
73	Battle Force Tactical Network	A	U				74,180		104,119
74	Shipboard Tactical Communications	A	U		36,941		29,776		24,602

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Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
75	Ship Communications Automation	A	U		101,691		96,916		103,546
76	Communications Items Under $5M	A	U		54,140		14,107		9,209
	Submarine Communications								
77	Submarine Broadcast Support	A	U		89,767		73,791		136,846
78	Submarine Communication Equipment	A	U		74,569		83,178		68,334
	Satellite Communications								
79	Satellite Communications Systems	A	U		39,827		72,871		59,745
80	Navy Multiband Terminal (NMT)		U		24,586		37,921		163,071
	Shore Communications								
81	Joint Communications Support Element (JCSE)	A	U		2,651		5,065		4,551

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
	Cryptographic Equipment								
82	Info Systems Security Program (ISSP)	A	U		156,034		154,890		162,008
83	MIO Intel Exploitation Team	A	U		1,055		1,079		1,100
	Cryptologic Equipment								
84	Cryptologic Communications Equip	A	U		28,832		17,483		15,506
	Other Electronic Support								
85	1695-1710 MHz Portal (Navy)	A	U		2,000				
86	NAVY METOC-4	A	U		77				
87	DON TRR-1 (Afloat)	A	U		1,180				
88	DON Robotics	A	U		6,784				
89	DON UAS Video 5 (Afloat)	A	U		500				

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Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
90	USN Ashore/Shipboard CONOPS Verification and	A	U		7,974				
91	USN (SESEF) Test Ranges	A	U		500				
92	USN Training Ranges - Codify CONOPS/TTPs	A	U		1,000				
93	USN Training Ranges - Spectrum Sensing	A	U		500				
94	USN EME Sensing and Monitoring	A	U		120				
95	Coast Guard Equipment	A	U		63,347		77,458		58,213
	Drug Interdiction Support								
96	Other Drug Interdiction Support	A	U		23,439				
	Total Communications and electronics equipment				**3,336,672**		**3,967,071**		**4,008,829**
	Budget Activity 03: Aviation support equipment								
	Sonobuoys								

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
97	Sonobuoys - All Types	A	U		303,520		311,177		323,441
	Aircraft Support Equipment								
98	Minotaur	A	U		5,247		5,396		5,431
99	Weapons Range Support Equipment	A	U		106,100		147,556		138,062
100	Aircraft Support Equipment	A	U		270,037		162,273		121,108
101	Advanced Arresting Gear (AAG)	A	U		15,412		11,930		2,244
102	Electromagnetic Aircraft Launch System (EMALS	A	U		18,594		17,836		14,702
103	Meteorological Equipment	A	U		15,175		19,703		17,982
104	Airborne MCM	A	U		4,689		12,202		10,643
105	Lamps Equipment		U		1,610				

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Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
106	Aviation Support Equipment	A	U		80,392		82,115		110,993
107	UMCS-Unman Carrier Aviation(UCA)Mission Cntrl	A	U		134,726		152,687		130,050
108	Architect & Cap for Autonomy in Nav Enter (AR	A	U				1,612		
Total Aviation support equipment					**955,502**		**924,487**		**874,656**
Budget Activity 04: Ordnance support equipment									
Ship Gun System Equipment									
109	Ship Gun Systems Equipment	A	U		5,902		6,404		6,416
Ship Missile Systems Equipment									
110	Harpoon Support Equipment	A	U		217		227		226
111	Ship Missile Support Equipment	A	U		270,117		294,511		381,473
112	Tomahawk Support Equipment	A	U		92,270		92,432		98,921

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy			FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
	FBM Support Equipment								
113	Strategic Missile Systems Equip	A	U		279,430		325,318		325,236
	ASW Support Equipment								
114	SSN Combat Control Systems	A	U		128,874		133,063		157,609
115	ASW Support Equipment	A	U		35,720		27,469		25,362
	Other Ordnance Support Equipment								
116	Explosive Ordnance Disposal Equip	B	U		14,336		27,864		26,725
117	Directed Energy Systems	A	U						3,817
118	Items Less Than $5 Million	A	U		4,751		6,171		3,193
	Other Expendable Ordnance								
119	Anti-Ship Missile Decoy System	A	U		86,091		56,630		95,557

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
120	Submarine Training Device Mods	A	U		80,591		76,954		80,248
121	Surface Training Equipment	A	U		203,695		209,487		179,974
Total Ordnance support equipment					**1,201,994**		**1,256,530**		**1,384,757**
Budget Activity 05: Civil engineering support equipment									
Civil Engineering Support Equipment									
122	Passenger Carrying Vehicles	A	U		4,441		3,827		3,751
123	General Purpose Trucks	A	U		3,050		4,570		5,795
124	Construction & Maintenance Equip	A	U		53,072		56,829		80,260
125	Fire Fighting Equipment	A	U		17,295		16,583		26,199
126	Tactical Vehicles	B	U		26,276		24,236		50,878
127	Amphibious Equipment	A	U				4,504		6,454

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
128	Pollution Control Equipment	A	U		6,840		3,898		3,924
129	Items less than $5 Million	A	U		56,060		67,286		103,014
130	Physical Security Vehicles	A	U		1,263		1,286		1,301
Total Civil engineering support equipment					**168,297**		**183,019**		**281,576**
Budget Activity 06: Supply support equipment									
Supply Support Equipment									
131	Supply Equipment	A	U		38,806		33,258		56,585
132	First Destination Transportation	A	U		6,255		6,977		5,863
133	Special Purpose Supply Systems	A	U		613,039		659,529		954,467
Total Supply support equipment					**658,100**		**699,764**		**1,016,915**
Budget Activity 07: Personnel and command support equipment									

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
	Training Devices								
134	Training Support Equipment	A	U		1,285		2,083		5,341
135	Training and Education Equipment	A	U		44,618		106,542		75,626
	Command Support Equipment								
136	Command Support Equipment	A	U		43,637		44,448		29,698
137	Medical Support Equipment	A	U		26,525		12,529		10,122
139	Naval MIP Support Equipment	A	U		6,077		5,408		6,590
140	Operating Forces Support Equipment	A	U		13,784		12,105		17,056
141	C4ISR Equipment	A	U		6,497		7,670		33,606
142	Environmental Support Equipment	A	U		36,592		52,597		47,499
143	Physical Security Equipment	A	U		107,372		108,901		129,484

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy				FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code	Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
144	Enterprise Information Technology	A	U		29,407		42,154		42,026
	Productivity Programs								
147	Judgment Fund Reimbursement	A	U		4,198				
	Other								
148	Cancelled Account Adjustments	A	U		130				
149	Next Generation Enterprise Service	A	U		167,071		177,585		130,100
150	Cyberspace Activities	A	U		5,018		23,176		2,195
151	Cyber Mission Forces	A	U		17,115				
	Classified Programs								
999	Classified Programs		U		33,065		16,290		16,134
Total Personnel and command support equipment					**542,391**		**611,488**		**545,477**

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy			FY 2023 Actuals		FY 2024 PB Request with CR Adjustments		FY 2025 Request	
Line No	Item Nomenclature	Ident Code / Sec	Quantity	Cost	Quantity	Cost*	Quantity	Cost
Budget Activity 08: Spares and repair parts								
Spares and Repair Parts								
152	Spares and Repair Parts	A U		584,039		645,900		705,144
153	VIRGINIA Class (VACL) Spares and Repair parts	A U				470,000		578,277
Total Spares and repair parts				**584,039**		**1,115,900**		**1,283,421**
Budget Activity 20: Undistributed								
Undistributed								
154	Adj to Match Continuing Resolution	A U				-2,396,667		
Total Undistributed						**-2,396,667**		
Total Other Procurement, Navy				**12,157,055**		**12,138,590**		**15,877,253**

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Additional Continuing Appropriations and Other Extensions Act, 2024 (Public Law 118-35). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Department of Defense
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
DoD Component Summary
(Dollars in Thousands)

Appropriation Summary	FY 2024 PB Request Overseas Operations Costs (OOC)*	FY 2025 Overseas Operations Costs (OOC)*
Other Procurement, Navy	46,435	28,616
Total Department of the Navy	**46,435**	**28,616**
Grand Total Department of Defense	**46,435**	**28,616**

*FY 2024 and FY 2025 Overseas Operations Costs (OOC) numbers are a subset of the baseline submission.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
Navy Summary
(Dollars in Thousands)

Appropriation Summary	FY 2024 PB Request Overseas Operations Costs (OOC)*	FY 2025 Overseas Operations Costs (OOC)*
Other Procurement, Navy	46,435	28,616
Total Department of the Navy	**46,435**	**28,616**

*FY 2024 and FY 2025 Overseas Operations Costs (OOC) numbers are a subset of the baseline submission.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N BA Summary
(Dollars in Thousands)

Appropriation: **Other Procurement, Navy**	FY 2024 PB Request Overseas Operations Costs (OOC)*	FY 2025 Overseas Operations Costs (OOC)*
Budget Activity		
03. Aviation support equipment	46,435	28,616
Total Other Procurement, Navy	**46,435**	**28,616**

*FY 2024 and FY 2025 Overseas Operations Costs (OOC) numbers are a subset of the baseline submission.

Department of the Navy
FY 2025 President's Budget
Exhibit P-1 FY 2025 President's Budget
Total Obligational Authority
1810N Detail
(Dollars in Thousands)

Appropriation: 1810 Other Procurement, Navy

Line No	Item Nomenclature	Ident Code	Sec	FY 2024 PB Request Overseas Operations Costs (OOC) Quantity	FY 2024 PB Request Overseas Operations Costs (OOC) Cost*	FY 2025 Overseas Operations Costs (OOC) Quantity	FY 2025 Overseas Operations Costs (OOC) Cost*
	Budget Activity 03: Aviation support equipment						
	Sonobuoys						
97	Sonobuoys - All Types	A	U		10,206		28,616
	Aircraft Support Equipment						
100	Aircraft Support Equipment	A	U		36,229		
	Total Aviation support equipment				**46,435**		**28,616**
	Total Other Procurement, Navy				**46,435**		**28,616**

*FY 2024 and FY 2025 Overseas Operations Costs (OOC) numbers are a subset of the baseline submission.

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

Appropriation 1810N: Other Procurement, Navy

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Appropriation 1810N: Other Procurement, Navy

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Appropriation 1810N: Other Procurement, Navy

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

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Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 2: Ship Gun System Equipment	**P-1 Line Item Number / Title:** 5111 / Ship Gun Systems Equipment

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	43.959	5.902	6.404	6.416	0.000	6.416	6.553	6.672	6.814	6.943	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	43.959	5.902	6.404	6.416	0.000	6.416	6.553	6.672	6.814	6.943	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**43.959**	**5.902**	**6.404**	**6.416**	**0.000**	**6.416**	**6.553**	**6.672**	**6.814**	**6.943**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	0.083	0.100	-	0.100	0.146	0.180	0.219	0.258	Continuing	Continuing
Flyaway Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Ship gun system equipment provides funds for the procurement of equipment, material and Ordnance Alterations to improve combat effectiveness and logistic supportability for gun and mission planning systems, and ancillary support equipment.

P40A - 1/ The Naval Fires Control System is an automated mission planning and coordination system for the Naval Surface Fire Support (NSFS) System. It automates shipboard land attack battle management duties to be interoperable and consistent with joint C4ISR systems. The system significantly improves the Navy's ability to support forces ashore. These improvements provide enhanced capabilities and reduce total ownership costs by improving reliability and supportability of in-service systems. This system also reduces manning requirements for NSFS missions.

[P40A - 2 / NV039 Night Vision Devices]: [P40A - 2 / NV039 VISUAL AUGMENTATION SYSTEMS (VAS)]: The United States Navy Service Common Visual Augmentation Systems (VAS) Program of Record manages, procures, and maintains night vision devices, thermal detection devices, day/night weapons optics, and lasers in support of Navy combat capabilities with regard to the detection, recognition, classification, tracking, and destruction of hostile air and surface forces. The USN VAS Program also manages research into the future of visual augmentation systems and engages with Navy and DoD VAS stakeholders to ensure the Navy maintains competitive advantage over near-peer adversaries.

Other Procurement, Navy funding provides the United States Navy Service Common Visual Augmentation Systems (VAS) Program of Record with funding to procure new and replacement night vision equipment, thermal detection equipment, day/night optics and associated test equipment for ships, submarines, carriers, expeditionary forces and shore installations so that commanders can maintain situational awareness in degraded visual environments while maintaining the greatest possible distance from threats.

[P40A - 2 / NV051 Optical Sight Systems Production Improvement]: Procures various Product Improvements for MK46 OSS/MK20 Electro-Optical Sight System (EOSS) on DDG 51 and CG 47 Class ships. The OSS is an integral element of the MK 34 Gun Weapon System. These improvements provide enhanced force protection capabilities, improve availability to address increase in Fleet underway operations, and reduce total ownership costs by improved reliability and supportability of in-service equipment systems. System and component improvements include: Mod 0 Technical Refresh, upgrade of Daylight Imaging Sensor Field of View, system power supplies, Mod 0 console / monitor upgrade, system obsolescence replacement and component level product improvements.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 2: Ship Gun System Equipment	**P-1 Line Item Number / Title:** 5111 / Ship Gun Systems Equipment

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	Naval Fires Control Sys				- / 3.822	- / 0.413	- / 0.426	- / 0.421	- / -	- / 0.421
P-40a	Gun Fire Control Equipment	P-5a			- / 40.137	- / 5.489	- / 5.978	- / 5.995	- / -	- / 5.995
P-40	**Total Gross/Weapon System Cost**				**- / 43.959**	**- / 5.902**	**- / 6.404**	**- / 6.416**	**- / 0.000**	**- / 6.416**

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 2	**P-1 Line Item Number / Title:** 5111 / Ship Gun Systems Equipment	**Aggregated Items Title:** Naval Fires Control Sys

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) INSTALLATION																				
1.1) FC010 Product Improvement/ ORDALT	A		-	-	1.877	-	-	0.190	-	-	0.197	-	-	0.194	-	-	-	-	-	0.194
1.2) FC011 Installation of ORDALT	A		-	-	0.853	-	-	0.104	-	-	0.107	-	-	0.106	-	-	-	-	-	0.106
1.3) FC830 Production Engineering Support (NFCS)	A		-	-	1.092	-	-	0.119	-	-	0.122	-	-	0.121	-	-	-	-	-	0.121
Subtotal: 1) INSTALLATION			**-**	**-**	***3.822***	**-**	**-**	***0.413***	**-**	**-**	***0.426***	**-**	**-**	***0.421***	**-**	**-**	**-**	**-**	**-**	***0.421***
Total			**-**	**-**	**3.822**	**-**	**-**	**0.413**	**-**	**-**	**0.426**	**-**	**-**	**0.421**	**-**	**-**	**-**	**-**	**-**	**0.421**

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

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 2	**P-1 Line Item Number / Title:** 5111 / Ship Gun Systems Equipment	**Aggregated Items Title:** Gun Fire Control Equipment (1)

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) Equipment																				
1.1) NV039 Night Vision Devices	A		-	-	13.776	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) NV051 Optical Sight Systems Production Improvement	A		-	-	21.496	-	-	2.894	-	-	2.968	-	-	2.954	-	-	-	-	-	2.954
Subtotal: 1) Equipment			**-**	**-**	***35.272***	**-**	**-**	***2.894***	**-**	**-**	***2.968***	**-**	**-**	***2.954***	**-**	**-**	**-**	**-**	**-**	***2.954***
2) NV039 Visual Augmentation System																				
2.1) Night Vision Devices	A		-	-	0.143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2) Night Vision, Individual (AN/ PVS-31B) (2)(†)	A		9,168.42	475	4.355	8,650.00	275	2.379	8,650.00	329	2.846	10,300.00	279	2.874	-	-	-	10,300.00	279	2.874
2.3) NVD Helmet Mount (3)(†)	A		449.29	779	0.350	450.00	280	0.126	450.00	284	0.128	470.00	283	0.133	-	-	-	470.00	283	0.133
2.4) NVD Helmet Shroud (4)(†)	A		-	-	-	100.00	827	0.083	100.00	288	0.029	120.00	285	0.034	-	-	-	120.00	285	0.034
2.5) SU-289/VCOG/ SCO	A		4,250.00	4	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.6) TAC	A		-	-	-	-	-	0.007	-	-	0.007	-	-	-	-	-	-	-	-	-
Subtotal: 2) NV039 Visual Augmentation System			**-**	**-**	***4.865***	**-**	**-**	***2.595***	**-**	**-**	***3.010***	**-**	**-**	***3.041***	**-**	**-**	**-**	**-**	**-**	***3.041***
Total			**-**	**-**	**40.137**	**-**	**-**	**5.489**	**-**	**-**	**5.978**	**-**	**-**	**5.995**	**-**	**-**	**-**	**-**	**-**	**5.995**

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

(†) indicates the presence of a P-5a

Footnotes:

(1) This program provides for the procurement of equipment, materials and Ordnance Alterations to improve combat effectiveness and maintain logistic supportability of Gun Fire Control Equipment, Optical Sight Systems (OSS) and Night Vision devices.

(2) FY25 increase due to increase in unit cost.

(3) FY25 increase in cost due to increase in unit cost.

(4) FY25 increase in cost due to increase in unit cost.

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 2	P-1 Line Item Number / Title: 5111 / Ship Gun Systems Equipment	Aggregated Items: Gun Fire Control Equipment (1)

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
2) NV039 Visual Augmentation System												
2.2) Night Vision, Individual (AN/PVS-31B) (2)		2023	L3 Harris Technologies / Londonderry, NH	MIPR	DLA, Philadelphia, PA	Oct 2022	Oct 2022	275	8,650.00	Y		
2.2) Night Vision, Individual (AN/PVS-31B) (2)		2024	L3 Harris Technologies / Londonderry, NH	MIPR	DLA, Philadelphia, PA	Oct 2023	Oct 2023	329	8,650.00	Y		
2.2) Night Vision, Individual (AN/PVS-31B) (2)		2025	L3 Harris Technologies / Londonderry, NH	MIPR	DLA, Philadelphia, PA	Oct 2024	Oct 2024	279	10,300.00	Y		
2.3) NVD Helmet Mount (3)		2023	Wilcox / Newington, NH	C / IDIQ	Crane, IN	Feb 2023	Sep 2023	280	450.00	Y		
2.3) NVD Helmet Mount (3)		2024	Wilcox / Newington, NH	C / IDIQ	Crane, IN	Feb 2024	Sep 2024	284	450.00	N		
2.3) NVD Helmet Mount (3)		2025	Wilcox / Newington, NH	C / IDIQ	Crane, IN	Oct 2024	Oct 2024	283	470.00	N		
2.4) NVD Helmet Shroud (4)		2023	Wilcox / Newington, NH	C / IDIQ	Crane, IN	Sep 2023	Apr 2024	827	100.00	Y		
2.4) NVD Helmet Shroud (4)		2024	Wilcox / Newington, NH	C / IDIQ	Crane, IN	Sep 2024	Apr 2025	288	100.00	N		
2.4) NVD Helmet Shroud (4)		2025	Wilcox / Newington, NH	C / IDIQ	Crane, IN	Oct 2024	Oct 2024	285	120.00	N		

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Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment	**P-1 Line Item Number / Title:** 5227 / HARPOON Support Equipment

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	0.204	0.217	0.227	0.226	0.000	0.226	0.232	0.236	0.242	0.247	-	1.831
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	0.204	0.217	0.227	0.226	0.000	0.226	0.232	0.236	0.242	0.247	-	1.831
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**0.204**	**0.217**	**0.227**	**0.226**	**0.000**	**0.226**	**0.232**	**0.236**	**0.242**	**0.247**	**-**	**1.831**
(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 Director of the Undersea Warfare Division (N97) has ordered the reconstitution and integration of 64 Encapsulated (ENCAP) Harpoon BLK IC missile systems for the 688 class submarine fleet in order to provide over the horizon surface strike capabilities to the fleet. The ENCAP Harpoon missiles provide Navy Los Angeles-class nuclear attack submarines (SSN) a sub-launched, all-weather, long-range Anti-Surface Warfare (ASuW) missile to attack enemy warships at stand-off ranges, to include Surface and Amphibious Action Groups. There are currently retired Encapsulated Harpoons located at the Letterkenny Army Depot that are candidates for reconstitution and delivery to the submarine fleet. In order to accomplish this order, the ENCAP program will refurbish and recertify existing ENCAP H1C All Up Rounds from deep storage to an 'as new' war ready material condition. (ENCAP Harpoons were placed in deep storage in 1996). The controlled storage conditions achieved by the missile capsule have preserved the material condition of the weapon system, allowing for relatively quick recertification and reissue. Due to the ease and speed of missile recertification the ENCAP Harpoon Reconstitution Program will fill a critical, time sensitive ASuW capability gap and meet Speed to the Fleet requirements.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment	**P-1 Line Item Number / Title:** 5227 / HARPOON Support Equipment

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	HARPOON Support - Support Costs				- / 0.204	- / 0.217	- / 0.227	- / 0.226	- / -	- / 0.226
P-40	**Total Gross/Weapon System Cost**				**- / 0.204**	**- / 0.217**	**- / 0.227**	**- / 0.226**	**- / 0.000**	**- / 0.226**

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
FY 2025 funding is provided for shipboard software updates on submarines receiving the Encapsulated (ENCAP) Harpoon missile. The submarine software updates enable submarine launchers to accommodate the ENCAP Harpoon missiles.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5227 / HARPOON Support Equipment	**Aggregated Items Title:** HARPOON Support - Support Costs

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) Harpoon Support Equipment																				
1.1) ILS	A		-	-	0.204	-	-	0.217	-	-	0.227	-	-	0.226	-	-	-	-	-	0.226
Subtotal: 1) Harpoon Support Equipment			**-**	**-**	***0.204***	**-**	**-**	***0.217***	**-**	**-**	***0.227***	**-**	**-**	***0.226***	**-**	**-**	**-**	**-**	**-**	***0.226***
Total			**-**	**-**	**0.204**	**-**	**-**	**0.217**	**-**	**-**	**0.227**	**-**	**-**	**0.226**	**-**	**-**	**-**	**-**	**-**	**0.226**

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

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Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,660.922	270.117	294.511	381.473	0.000	381.473	452.458	363.115	344.709	369.915	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,660.922	270.117	294.511	381.473	0.000	381.473	452.458	363.115	344.709	369.915	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,660.922**	**270.117**	**294.511**	**381.473**	**0.000**	**381.473**	**452.458**	**363.115**	**344.709**	**369.915**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	5.057	9.608	7.595	-	7.595	3.385	0.887	0.940	3.493	Continuing	Continuing
Flyaway Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Ship Missile Support Equipment provides procurement and installation support to address fleet requirements for AEGIS Weapons System, Ships Self Defense System (SSDS), Vertical Launch Systems (VLS), NATO SEASPARROW Surface Missile System (NSSMS), Rolling Airframe Missile (RAM) Guided Missile Launching System (GMLS), Over The Horizon Weapon System (OTH WS), MK57 Vertical Launching System (VLS) Support Equipment, Integrated Combat system (ICS), and Counter Unmanned Aircraft System (C-UAS). Below are program descriptions for each of these programs along with top line funding summaries.

Improved Stalker (I-Stalker) is the Independent Mount (IM) Improvement to the Stalker Long Range Electro-Optic Sensor System (SLREOSS) system in response to a 2016 United States Fleet Forces Command (USFFC) Operational Needs Statement (ONS). I-Stalker is currently fielded on CVN and LHA/LHD ship classes, and is planned for installation on the first 10 FFG Constellation Class Ships. I-Stalker provides the capability for 360-degree situational awareness and enhances the ability of ships to passively detect, classify, identify and determine intent of current/emerging surface and air threats in support of the following warfare missions: Surface/Air Recon, Counter-Unmanned Aircraft Systems (UAS), Counter-Fast Attack Craft / Fast Inshore Attack Craft (FAC/FIAC), Search & Rescue, Force Protection, and Mobility. I-Stalker, combined with the Navy-owned Situational Awareness System (SAwS), delivers an integrated radar and Electro Optic/Infrared (EO/IR) control and display suite. I-Stalker includes two (2) NSSMS MK6 MOD 4 LLLTV 4 LLLTV Independent Mount systems and one (1) SAwS. This combined system is referred to as the AN/SAY-3. I-Stalker requirements are transitioning from individual resource sponsor management to a total program level commensurate with the I-Stalker transition to a Program of Record (POR). For FY22 and prior years, I-Stalker funding is contained in BLI 5231. In FY23, BLI 5231 contains funding from OPNAV N95, and BLI 2980 contains funding from OPNAV N98. In FY24 and out, BLI 2981 contains funding from OPNAV N95 in support of LHA/LHD ship classes and OPNAV N98 in support of the CVN ship class.

[P40A / NATO SEASPARROW]: [P40A / NATO SEASPARROW]: The NATO SEASPARROW Surface Missile System (NSSMS) is a shipboard Self-Defense Missile System. In addition to the standard mission of Anti-Air and Anti-Surface Defense (AAW, ASUW), NSSMS is designed to protect ship and crew from a variety of inbound threats, including Anti-Ship Cruise Missiles (ASCM), Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC), Low Velocity Air Threats (LVAT), and a wide range of asymmetrical threats (e.g. Unmanned Aerial and Surface vehicles, small Rigid Hull Inflatable Boats, etc.).

The legacy NSSMS configuration (MK57 MOD 2, 12/13, 14/15 and 16/17) consists of Fire Control and Launcher Systems comprised of 2-4 Directors, a distributed computing network, Transmitter Group, 3-5 Operating Consoles, and 2 Eight-Cell missile Launching Systems (MK29) which employ the surface launch variant of the Sparrow (MK57 MOD 2/3) and ESSM (MK57 MOD 12/13, 14/15 and 16/17). In the MOD 12 and higher configuration, the MK57 NSSMS becomes part of the SSDS MK 2 Combat System. The fully integrated configurations of NSSMS are the MK57 MOD 12 and above configurations. A new transmitter replacement program is in process to provide near term replacement of the obsolete MK73 Mod 3 Continuous Wave Transmitter Illuminator (CWTI) that can no longer be procured along with a

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

Launcher replacement program required for fielding of ESSM BLK 2 missile capability integrated in an optimized fashion. This effort is intended to replace 1970's era MK 29 Guided Missile Launching System (GMLS) which is no longer producible.

[P40A / Launcher Min-Mod BLK 2 Capability Upgrade]: With the change in the current Min Mod program technical approach additional engineering is required to provide ESSM Block 2 capability in Functional Compatibility to CVN/LHA/LHD ships. Funding from the hardware and install line was realigned in FY22 to support this effort. The line has been changed from Launcher Min-Mod BLK 2 Capability H/W to Launcher Min-Mod BLK 2 Capability Upgrade to better reflect what is being accomplished on this line.

[P40A / MK57 Mod 14-17 Engineering]: Field Activity, design agent and industry will provide Hardware/Software engineering support for the modernization/upgrade of the NSSMS MK57 systems from various field activities including NSWC PHD, NSWC DD, Raytheon IDS

[P40A / MK57 Mod 14-17 Logistics]: Field Activity and design agent will provide Logistics support including Supply, Data Management, Configuration, Training and Quality Management during the modernization/ upgrade and installation of NSSMS MK57 systems on CVN/LHA/LHDs.

[P40A / MK57 Mod 16-17 Depot]: Field Activity and design agent will provide oversight and monitor the Depot operation to ensure compliance with quality assurance, compliance with technical requirements, and to ensure all products are delivered on time and within budget to meet ship schedules during the modernization/upgrade on NSSMS MK57 systems. Provide Depot Workload Planning, Budget Updates & Estimating, Contract, Upgrade/Repair Engineering, OM&S Inventory/Warehouse Management and Depot Logistics Support/NSPO Liaison and equipment modernization/upgrade.

[P40A / MK57 Mod 14-17 Cyber]: Field Activity and design will document and validate system compliance with the appropriate National Institute of Standards and Technology (NIST) Special Publication (SP) 800-53A assessment procedures and the NIST SP 800-53 Security and Privacy Controls for Federal Information Systems and Organizations to obtain a Risk Management Framework (RMF) authorization IAW DoDI 8510.01 for the MK 57 MOD 16-17 Systems. In FY 25/26 industry will support NSPO in the Resilient Hull, Mechanical and Electrical Security (RHIMES) effort to build an experimental software/hardware platform for the demonstration of the You Only Live Once (YOLO)-based controller resilience has been added.

[P40A / MK57 Mod 14-17 Safety]: Field Activity and design will provide a qualified system safety program Principal for Safety (PFS) and PFS safety engineering support for in service NSSMS MK57 system configurations. The PFS shall be responsible for executing the safety program, updating safety plans, and conducting safety analyses to support any certification or deployment requirements.

[P40A - 2 / RAM Launchers]: Rolling Airframe Missile (RAM) is a cooperative program executed under a series of production Memorandums of Understanding between the U.S. and the Federal Republic of Germany. RAM is a high firepower missile used primarily to defeat Anti-Ship Cruise Missiles (ASCMs) and other anti-air warfare threats with no dependence on ship's fire control illuminators for terminal guidance. The RAM missile is fired from the RAM Guided Missile Launching System (GMLS) (MK-49), which holds 21 rounds or from the Close-In Weapon System (CIWS) SeaRAM (MK-15) which holds 11 rounds. Both launching systems are compatible with various platforms ranging from USN aircraft carriers (CVN) to Littoral Combat Ship (LCS) to Guided Missile Destroyers (DDGs). The MK49 GMLS requires full integration within the ship's combat system. The SeaRAM system contains its own radar for detection and tracking enabling it to be employed with minimal ship combat system integration.

FY25 funding supports the hardware procurement and installation of Ordnance Alterations (ORDALT) to address safety, obsolescence, and enable the firing of new missile variants and supports procurement and installation of launchers on in-service DDGs in accordance with recent Naval Capability Board decision to outfit the ARLEIGH BURKE class destroyers with increased terminal defense capabilities.

For ORDALTs the hardware production lead time is 24 months and installations are executed in accordance with Ship Maintenance Availability Schedules. The FY25 procurements include the Firepower ORDALT and the Shock Hardening ORDALT. The Firepower ORDALT is necessary to employ the latest and most capable RAM Block 2B missile. The Firepower ORDALT also supports launcher readiness by addressing obsolescence of multiple components in the legacy configuration. The Shock ORDALT will address safety deficiencies identified during testing that could render the launcher inoperable in the event of a major ship shock event.

For launchers the hardware production lead time is 36 months and installations are executed in accordance with Ship Maintenance Availability Schedules. In FY25 procurements and installation of both launching systems will occur. The MK-49 launcher will be utilized on DDGs with the latest combat system and the SeaRAM launcher will be utilized on DDGs that do not have a combat system that is compatible with the MK-49. The launchers will replace the currently installed Phalanx Close-In Weapon System (CIWS).

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

FY25 RAM procurement quantities: (8) Firepower ORDALTs, (8) Shock Hardening ORDALTs, (5) MK 49 GMLS and (3) SeaRAM systems.

FY25 RAM installations: (8) Firepower ORDALTs, (2) Shock Hardening ORDALTs, (2) MK 49 GMLS and (2) SeaRAM systems.

[P40A - 3 / Ship Self Defense System]: The Ship Self Defense System (SSDS) is the core combat system control element for the Quick Reaction Combat Capability (QRCC) in aircraft carriers and amphibious assault ships, which defends against Anti-Ship Cruise Missiles (ASCM).

Major changes from FY24 to FY25 are below:

In FY23, procurements begin transitioning from TI-16 TR configuration to the new Computing Infrastructure (CI) configuration. This transition impacts cost for hardware, software, software licenses, and installation and advanced planning. The lead ship class is planned to be the LPDs for the incorporation of the new CI configuration. Cost will vary based on the ships' Combat System configuration and the new CI configuration.

In FY24 the program procured 2 shipsets (1 CVN and 1 LHD), 1 Shore Site, and CAC2S Afloat hardware. The Program is installing 1 Shipset system (1 LPD), 1 Shore Site system and conducting Year 2 advanced planning* for 2 future (FY25) Ships installations, conducting Year 1 advanced planning* for 2 future (FY26) Ship installations, conducting final checkout on 1 Ship and conducting advanced planning for 1 future (FY25) Shore Site installation. The Program is planning to conduct 2 CSSQT events (1 LHD, 1 LPD) and conducting Year 1 CSSQT advanced planning* for 2 future (FY26) CSSQT events (1 LHD, 1 LPD).

In FY25 the program is procuring 2 shipsets (1 LPD and 1 LHA), 2 Shore Site, and CAC2S Afloat hardware. The Program is installing 1 Shipset system (1 LPD), 1 Shore Site system and conducting Year 2 advanced planning* for 2 future (FY26) Ships installations, conducting Year 1 advanced planning* for 2 future (FY27) Ship installations, conducting final checkout on 2 Ship and conducting advanced planning for 2 future (FY26) Shore Site installation. The Program is planning to conduct Year 2 CSSQT advanced planning* for 2 future (FY26) CSSQT events (1 LPD and 1 LHD) conduct Year 1 CSSQT advance Planning for 1 future (FY27) CSSQT event (LPD).

*Advanced Planning is done in each of the 2 years prior to an installation
*Advanced Planning is done in each of the 2 years prior to a CSSQT event

SSDS costs have increased as a result of transitioning to the new Computing Infrastructure configuration as well as material cost increases as the result of supply chain issues, engineering change implementation to address hardware component obsolescence and diminishing manufacturing sources.

Ship Installation Cost, includes advanced planning in each of the 2 years prior to an installation, varies per year depending on the quantities of ships, the mix of ship classes, the configuration of the specific hull (i.e., CVN, LHD, LHA, LPD, or LSD) and the geographical location of the CNO availability (e.g., Bremerton, Norfolk, San Diego). Installation cost is significantly higher than advanced planning and can cause large variations between years. Recently, the installation cost has increased due to a) installations in non-traditional locations (e.g., Bremerton) driven by the Coast-wide bid process which causes extensive travel costs, b) Delays in delivery of Ship Installation Drawings, and c) scope changes during the modernization window. Further apparent cost "increases" are due to aligning modernization-related work such as Combat System documentation updates within the modernization budget.

CSSQT cost per year varies depending on the number of CSSQT events conducted and the advanced planning required future CSSQT events. The cost also varies depending on the mix of ship classes (i.e., CVN, LHD, LHA, LPD, or LSD) in any given year and the CS weapons configuration. CSSQT events cost are significantly higher than advanced planning costs.

SSDS Description: SSDS integrates a diverse set of fire control loop sensors and weapons and C4I systems for each ship class (CVN68, CVN78, LHA6, LHD1, LPD17, LSD41 and LSD49 ship classes). SSDS MK 2 provides the capabilities for integrated air and missile defense, multi-warfare situational awareness, combat direction, and joint interoperability via the Cooperative Engagement Capability (CEC) and Tactical Digital Information Link (TADIL)-J (Link 16).

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Line Item MDAP/MAIS Code: N/A		

SSDS MK 2 fielding continues with the new construction carriers (CVN78 class), new construction amphibious ships (LHA 6, LPD 17 classes) and modernizing in-service SSDS MK 2 carriers (CVN 68 Class) and amphibious ships (LPD17, LHD 1 and LHA 6 Classes). Additionally, SSDS MK2 replaces the Advanced Combat Direction System (ACDS) in the LHD 1 class, and SSDS MK1 in the LSD 41, LSD 49 class, as fleet modernization initiatives. SSDS MK2 integrates new combat system warfighting capabilities and improvements on a phased basis via phased software Capability Packages and COTS hardware modernization. SSDS MK 2 increases operational capabilities, improves combat readiness and Strike Group and Expeditionary Strike Group interoperability including, the Fire Control Loop Improvement Project (FCLIP), Far-Term Interoperability Improvement Project (FTIIP), and Task Force Cyber Awakening (TFCA) Boundary Defense Capability. SSDS MK 2 equips back-fit LHDs and CVNs with an upgraded Combat System Display, Automatic Status Board (ASTABS), Remote ASTAB Controllers, peripheral control stations and Advanced Sensor Distribution System (ASDS), as well as the SSDS MK 2 computing equipment.

Hardware computing infrastructure baselines will implement Commercial-Off-The-Shelf (COTS) configurations to sustain system production and support the incorporation of new war-fighting capabilities. Each individual ship is generally planned for a hardware computing infrastructure upgrade on an eight-to-ten-year interval to replace obsolescent COTS hardware, implement new technologies and support the fielding of these capabilities. Technology refresh of individual COTS components that are unprocurable or unsupported is handled on a case-by-case basis.

New hardware computing infrastructure baselines will implement Commercial-Off-The-Shelf (COTS) configurations to sustain system production and support the incorporation of new war-fighting capabilities (FY20-23 TI-16 Tech Refresh/FY23 Infrastructure as a Service (Computing Infrastructure). Each individual ship is generally planned for a hardware computing infrastructure upgrade on an eight-to-ten-year interval to replace obsolescent COTS hardware, implement new technologies and support the fielding of these capabilities. Technology refresh of individual COTS components that are unprocurable or unsupported is handled on a case-by-case basis.

Procurement of SSDS shore site equipment includes shore based SSDS equipment and full combat system suites for the Ship Combat Systems Center (SCSC), Wallops Island, Virginia; and the SSDS System Integration Lab (SIL), Lockheed Martin, Moorestown, New Jersey.

P40A exhibits for SSDS includes the following:
UQ002 - Production engineering support for SSDS hardware. These efforts include monitoring vendor production contracts/production line issues, creating shipset lists, responding to contractor production questions, receiving and shipping of equipment, creating and communication a detailed production schedule, troubleshooting failed production equipment, assisting in Factory Acceptance Testing (FAT), identification of fixes required to correct production flaws, and assist in resolution production related problems during ship installations.

UQ003 - Engineering Change Proposal (ECP) and Ship Change Document (SCD) for SSDS hardware.

UQ004 - Training Documentation Changes for SSDS hardware. Review and update SSDS MK2 Operator Maintenance Courses.

UQ005A/B - COTS engineering/Obsolescence Kits/Field Changes for SSDS hardware and CAC2S hardware.
UQ005A - COTS/Obsolescence engineering support for SSDS hardware at headquarters and field activities. Starting in FY22 Cyber Security hardware component procurement, assembly & installation and support are reflected here.
UQ005B - SSDS System procurement and CAC2S Hardware, to include, hardware procurement, Software licenses, installation documentation, and drawing specification of the defined SSDS COTS Conversion kits, dependent upon the shipboard or shore- site equipment configuration to include CAC2S Afloat components.

UQ5IN - FMP Ship Units, installation planning and installation - The costs for each kit listed in the P-3a Description. SSDS kit funding provided to various contractors and field activities. The SSDS equipment procurement based on competitive contracts. Production lead-time for kits ranges from 12 months (for equipment COTS upgrade kits/field changes) up to 24 months for system COTS conversion kits for ships. Installation planning is conducted in each of the 2 years prior to the start of the installation. Installation funds are required to be on contract and at field activities 90-150 days prior to installation start.

UQ6IN - Non-FMP Shore Site units, installation planning and installation - Systems are required for SSDS/CS shore sites: The SSDS MK 2 System/Software Combat System Engineering Agent (SSDS System Integration Lab (SIL), Lockheed Martin, Moorestown, New Jersey); Surface Combat Systems Center (SCSC), Wallops Island.

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

UQ007 - Combat System Ship Qualification Trial (CSSQT). Combat System Ship Qualification Trials are designated for CVNs and AMPHIBs in accordance with NAVSEAINST 9093.1 (series). CSSQTs will validate installation and operation of Combat System upgrades and will ensure the crew can operate and maintain the new systems.

UQ008 - Combat System Documentation & Waterfront Support provides for generation, update, and validation of CS documentation because of CS configuration changes during ship modernization including Ship Selected Records, Combat System Operational Sequencing System, CS Capabilities and Limitations, Combat System Interface Diagrams, Combat System Alignment Manual and the Overall CS Operability Test. This also includes Combat System Project Engineers that coordinate with other SYSCOM elements for installation coordination and system of system testing with SSDS. CS documentation is produced for all CVN and Amphibious Class Ships undergoing Combat System SSDS MK 2 upgrades within the next 2 years.

[P40A - 4 / AEGIS Support Equipment]: Provides equipment procurement and installation support for AEGIS Shore Facilities and Shipboard Upgrades to AEGIS Cruisers and Destroyers required to maintain the readiness of the AEGIS Weapon System in support of Combatant Commanders requirements.

L7001: Special Tools & Test Equipment, MK-99 and SPY Procurements: Provides funding to procure and maintain special test equipment (Adaptive Diagnostic Electronic Portable Test Set (ADEPT)/Radiation Probes) to support Maintenance and Troubleshooting efforts for the AEGIS Weapon System on CG's, DDG's, and critical shore sites. Provides Mk 99 Missile Fire Control System (MFCS) illuminator and pedestal assembly parts refurbishment, creates a depot pool of refurbished illuminator and pedestal assemblies to support periodic maintenance replacement on AEGIS CG's and DDG's.

L7003: Computers, Displays, and Simulators for Integrated Warfare Systems Laboratory: Provides funding to procure and maintain Integrated Warfare Systems Laboratory (IWSL) Weapons System and support infrastructure to support fleet issues resolution within the AEGIS Weapon System. (LBTS support stopped in FY13)

L7006: Surface Combat Systems Center (SCSC): Provides funding to procure, maintain, and modernize SCSC's AEGIS Weapon System (AWS), AEGIS Combat System (ACS), and combat system infrastructure in support of Fleet development, integration, testing, and training requirements that are required to complete Weapon and Combat System Certification.

L7007: AEGIS Training and Readiness Center (ATRC): Provides funding to procure, maintain, and modernize ATRC's AEGIS Weapon System (AWS), AEGIS Combat System (ACS), and combat system infrastructure in support of Fleet operator and maintenance training requirements.

L7008: Combat System Engineering Development Site (CSEDS): Provides funding to procure, maintain, and modernize CSEDS's AEGIS Weapon System (AWS), AEGIS Combat System (ACS), and combat system infrastructure in support of Fleet development, integration, testing, and training requirements that are required to complete Weapon and Combat System Certification.

L7011: AEGIS Weapon System Ship Change Procurement: Provides funding to address fleet hardware issues related to equipment obsolescence, high failure, diminishing manufacturing sources (DMS) or to reduce maintenance costs and improve AEGIS operational availability (Ao) for fleet readiness. Supported by L7600 for installation.

L7012: AN-SPY-1D/D(V) Radar Enhancements (ALPS): AEGIS Linear Processing System (ALPS) program provides the AN/SPY-1D/D(V) radar with AAW improvements in a complex electronic environment.

L7014: AEGIS SPY Wholeness: Convert AEGIS SPY-1 Arrays Conversion: Convert LNA Arrays into usable condition to support Battle-Spares requirement due to the shutdown of the SPY-1 production line in support of AEGIS DDG. Address diminishing manufacturing source (DMS) issues and contribute to AEGIS wholeness and SPY operational availability.

L7015: AEGIS SEARAM Integration and Installation Support: Provides integration and installation support for 4 forward deployed destroyers scheduled to receive the SEARAM upgrade. SEARAM is an anti-ship missile defense system that allows naval vessels to engage high-performance, supersonic, and subsonic threats.

L7016: AEGIS TI-12H Backfit: Technology Insertion-12 Hybrid solution (TI-12H) is one of the compute infrastructures used to operate the AEGIS Weapon System on AEGIS cruisers and destroyers. The TI-12 compute infrastructure on some AEGIS Baseline 9 cruisers and destroyers is being upgraded (back-fitted) with a TI-12H to enable AEGIS Baseline 9 upgrades.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

L7017: Integrated Combat System (ICS) Equipment: Procures MK 6 MOD X equipment for combat system Land Based Test Sites and Infrastructure as a Service (IaaS) ORDALT kits. IaaS provides automated and scalable processing, network, storage, and other resources provided to the consumer. It enables the decoupling of hardware (HW) and software (SW), and eliminates the dependencies on specific HW configurations. IaaS enables the use of all available compute, storage, and network resources, while providing capacity for future growth and capability expansion. IaaS is a key component in our transition to an ICS. The MK 6 MOD X compute infrastructure will be developed with an IaaS capability. The IaaS ORDALT kits will enable IaaS capability on legacy TI-16 MK 6 MOD 0 and TI-16 MK 6 MOD 1 compute infrastructures in the fleet today. (Effort Shifts to ICS in FY24)

L7018: Enhanced Collection System (ECS) Procurement and Install Support: Provides procurement and installation activities of ECS to support, update, and maintain a centralized, modern data collection and processing capability to Aegis CG's & DDG's.

L7019: AEGIS Depot Maintenance Support: Provides Depot Maintenance Facility to maintain AEGIS CG's & DDG's.

L7600: AEGIS Weapon System Ship Change Installation: Provides funding for ORDALT installation and other Ship Changes designed to improve AEGIS Combat System readiness. Supported by L7011 for procurement.

[P40A - 5 / Integrated Combat System (ICS) Equipment]: Procures Infrastructure as a Service (IaaS) Equipment to support combat system Land Based Test Sites and shipsets in support of DDG, FFG and US Coast Guard WMSM installations. IaaS provides automated and scalable processing, network, storage, and other resources provided to the consumer. It enables the decoupling of hardware (HW) and software (SW) and eliminates the dependencies on specific HW configurations. IaaS enables the use of all available compute, storage, and network resources, while providing capacity for future growth and capability expansion. IaaS is a key component in our transition to an ICS. The MK 6 MOD X compute infrastructure will be developed with an IaaS capability. The IaaS ORDALT kits will enable IaaS capability on legacy TI-16 MK 6 MOD 0 and TI-16 MK 6 MOD 1 compute infrastructures in the fleet today.

[P40A - 6 / MK57 SUPPORT EQUIPMENT]: The MK 57 Vertical Launch System (VLS) is unique to the DDG 1000 class. Each ship has 80 total cells grouped into 20 four-cell modules. Flight 1 missiles to be carried on DDG1000 include: Enhanced Sea Sparrow Missile (ESSM), Standard Missile-2 (SM-2) Blk III and Tomahawk Land Attack Missile (TLAM) Blk III/IV. This 80-cell VLS design requires a Canister Electronic Unit (CEU) for each cell containing a missile.

MK57 VLS support equipment costs include hardware/software, technical refresh, Installation and Checkout (INCO) material, testing requirements, logistics, obsolescence, and training requirements.

[P40A - 6 / MK57 UCEU PRODUCTION ENGINEERING and LOGISTICS SUPPORT]: MK57 VERTICAL LAUNCH SYSTEM (VLS) UNIVERSAL CANISTER ELECTRONICS UNIT(UCEU) PRODUCTION ENGINEERING and LOGISTICS SUPPORT: Funds provided for systems engineering, testing, engineering changes, cyber security accreditation, installation, production support, and hardware. This funding line also provides for development of training curriculum, depot repair procedures, and logistics required to maintain compatibility and interoperability with Total Ship Computing Environment (TSCE) combat system on DDG 1000 Class.

MK57 VERTICAL LAUNCH SYSTEM (VLS) UCEU HARDWARE PROCUREMENT: Procures UCEU hardware necessary for DDG100, DDG1001 & DDG1002 to have full missile capabilities for AAW, self-defense and land attack.

[P40A - 7 / Vertical Launch Systems]: The MK-41 Vertical Launching System (VLS) is a surface combatant missile launching system, designed to store, select and launch various SM configurations, TLAM, Tactical TLAM, ESSM, and VLA. The MK-41 VLS significantly improves missile capacity, flexibility, multi-mission capability, reaction time and rate of fire and is designed to be adaptable to present and future weapon systems. Current configurations are: two 61 cell launchers, forward and aft, for 22 TICONDEROGA (CG 47) Class Cruisers beginning with CG-52; one 61 cell aft and one 29 cell launcher forward for 28 ARLEIGH BURKE (DDG 51) Class Destroyers; and one 64 cell launcher aft and one 32 cell launcher forward for 34 DDG 51 FLT IIA ships.

The OPN requirements procure Engineering Change Proposals/Ordnance Alterations (ECP/ORDALT) and funds sustaining engineering support for Fleet investigations and safety issues. Funds are required for Fleet operational availability, capability, safety and survivability. There are no significant increases or decreases in this program.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

[P40A - 7 / VLS PRODUCTION ENGINEERING]: The OPN requirements procure Engineering Change Proposals/Ordnance Alterations (ECP/ORDALT) and funds sustaining engineering support for Fleet investigations and safety issues. Funds are required for Fleet operational availability, capability, safety and survivability.

[P40A - 9 / OTH WS INSTALLATION]: FY2025 increases due to fleet requirement increase from two to three installations on LCS 22, LCS 36, and LCS 38 at ~$3M per ship.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A — **Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A	

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-40a	NATO SEASPARROW	P-5a			- / 121.638	- / 28.300	- / 17.301	- / 21.640	- / -	- / 21.640
P-40a	RAM Launchers				- / 24.790	- / 0.521	- / 0.559	- / 6.565	- / -	- / 6.565
P-40a	Ship Self Defense System				- / 111.812	- / 34.462	- / 31.537	- / 18.989	- / -	- / 18.989
P-40a	AEGIS Support Equipment				- / 639.537	- / 107.205	- / 122.882	- / 123.988	- / -	- / 123.988
P-40a	Integrated Combat System (ICS) Equipment				- / 0.000	- / -	- / 20.140	- / 24.134	- / -	- / 24.134
P-40a	MK57 SUPPORT EQUIPMENT	P-5a, P-21			- / 28.743	- / 11.734	- / 0.184	- / 0.235	- / -	- / 0.235
P-40a	Vertical Launch Systems				- / 5.405	- / 0.746	- / 0.763	- / 1.209	- / -	- / 1.209
P-40a	ANTI SHIP MISSILE DECOY SYSTEM	P-5a, P-21			- / 169.079	- / -	- / -	- / -	- / -	- / -
P-40a	OTH Weapon System	P-5a			- / 30.881	- / 10.055	- / 6.659	- / 8.976	- / -	- / 8.976
P-40a	DRAKE				- / 0.000	- / -	- / 0.154	- / 0.151	- / -	- / 0.151
P-3a	1 / NATO SEASPARROW (NSSMS Mk 57)				- / 61.141	- / 16.725	- / 16.477	- / 12.256	- / 0.000	- / 12.256
P-3a	2 / UR006 RAM LAUNCHERS (NON-FMP Install)				- / 40.807	- / 6.532	- / 6.663	- / 80.228	- / 0.000	- / 80.228
P-3a	3 / UQ005B - SSDS COTS CONVERSION KITS (TBD)				- / 427.089	- / 53.837	- / 71.192	- / 83.102	- / 0.000	- / 83.102
P-40	**Total Gross/Weapon System Cost**				**- / 1,660.922**	**- / 270.117**	**- / 294.511**	**- / 381.473**	**- / 0.000**	**- / 381.473**

Exhibits Schedule					FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-40a	NATO SEASPARROW	P-5a			- / -	- / -	- / -	- / -	- / -	- / -
P-40a	RAM Launchers				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Ship Self Defense System				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	AEGIS Support Equipment				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Integrated Combat System (ICS) Equipment				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	MK57 SUPPORT EQUIPMENT	P-5a, P-21			- / -	- / -	- / -	- / -	- / -	- / -
P-40a	Vertical Launch Systems				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	ANTI SHIP MISSILE DECOY SYSTEM	P-5a, P-21			- / -	- / -	- / -	- / -	- / -	- / -
P-40a	OTH Weapon System	P-5a			- / -	- / -	- / -	- / -	- / -	- / -
P-40a	DRAKE				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / NATO SEASPARROW (NSSMS Mk 57)				- / 32.541	- / 38.336	- / 44.691	- / 63.435	- / 24.393	- / 309.995
P-3a	2 / UR006 RAM LAUNCHERS (NON-FMP Install)				- / 55.572	- / 61.828	- / 58.144	- / 59.148	- / 543.162	- / 912.084
P-3a	3 / UQ005B - SSDS COTS CONVERSION KITS (TBD)				- / 70.333	- / 81.135	- / 74.746	- / 73.082	- / 12.495	- / 947.011
P-40	**Total Gross/Weapon System Cost**				**- / 452.458**	**- / 363.115**	**- / 344.709**	**- / 369.915**	**Continuing**	**Continuing**

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

Justification:
DRAKE: Technical Correction Realigned funds to EOD CREW Budget Exhibit LI 5509.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	P-1 Line Item Number / Title: 5231 / Ship Missile Support Equipment	Aggregated Items Title: NATO SEASPARROW

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) EQUIPMENT MODERNIZATION																				
1.1) Mk57 Mod 12-15 Modernization [1]	A		-	-	53.397	-	-	10.940	-	-	-	-	-	-	-	-	-	-	-	-
1.2) Mk57 Mod 14-17 Modernization [2]	A		-	-	-	-	-	-	-	-	13.937	-	-	-	-	-	-	-	-	-
Subtotal: 1) EQUIPMENT MODERNIZATION			**-**	**-**	***53.397***	**-**	**-**	***10.940***	**-**	**-**	***13.937***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2) MK57 MOD 14-17 Modernization																				
2.1) Launcher Min-Mod BLK 2 Capability Upgrade	A		-	-	9.181	-	-	4.267	-	-	3.364	-	-	4.067	-	-	-	-	-	4.067
2.2) MK57 Mod 14-17 Engineering	A		-	-	-	-	-	-	-	-	-	-	-	4.298	-	-	-	-	-	4.298
2.3) MK57 Mod 14-17 Logistics	A		-	-	-	-	-	-	-	-	-	-	-	2.622	-	-	-	-	-	2.622
2.4) MK57 Mod 16-17 Depot	A		-	-	-	-	-	-	-	-	-	-	-	4.996	-	-	-	-	-	4.996
2.5) MK57 Mod 14-17 Cyber	A		-	-	-	-	-	-	-	-	-	-	-	4.939	-	-	-	-	-	4.939
2.6) MK57 Mod 14-17 Safety	A		-	-	-	-	-	-	-	-	-	-	-	0.718	-	-	-	-	-	0.718
Subtotal: 2) MK57 MOD 14-17 Modernization			**-**	**-**	***9.181***	**-**	**-**	***4.267***	**-**	**-**	***3.364***	**-**	**-**	***21.640***	**-**	**-**	**-**	**-**	**-**	***21.640***
3) I-STALKER - US005																				
3.1) I-STALKER PRODUCTION SUPPORT [3]	A		-	-	5.489	-	-	1.716	-	-	-	-	-	-	-	-	-	-	-	-
3.2) I-STALKER ENG CHANGE PROPOSALS [4]	A		-	-	4.629	-	-	6.302	-	-	-	-	-	-	-	-	-	-	-	-
3.3) I-STALKER SPARES	A		-	-	0.092	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) I-STALKER - US005			**-**	**-**	***10.210***	**-**	**-**	***8.018***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
4) I-Stalker - US005 [5]																				
4.1) I-Stalker Independent Mount (6)(†)	A		549,518.52	27	14.837	615,000.00	4	2.460	-	-	-	-	-	-	-	-	-	-	-	-
4.4) I-Stalker Install [7]	A		-	-	30.928	-	-	2.615	-	-	-	-	-	-	-	-	-	-	-	-
4.5) I-Stalker SAwS	A		146,904.76	21	3.085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) I-Stalker - US005			**-**	**-**	***48.850***	**-**	**-**	***5.075***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total			**-**	**-**	**121.638**	**-**	**-**	**28.300**	**-**	**-**	**17.301**	**-**	**-**	**21.640**	**-**	**-**	**-**	**-**	**-**	**21.640**

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

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items Title:** NATO SEASPARROW

(†) indicates the presence of a P-5a

Footnotes:

(1) The title of this line has been changed from Objective Configuration to Mk57 Mod 12-15 Modernization. The title Objective Configuration caused confusion in that it was assumed this funding was upgrade support for production of the NSSMS Mk57 Mod 14 Objective Configuration (OC) system. Funding in this line provides for field activity and industry support for efforts associated with the Mk57 Mods 12-15 system. This line will be zeroed out after FY 23 as the MK 12 efforts have been completed. A new line has been added to reflect the ongoing MK 57 Mod 14-17 modernization efforts.

(2) This line has been added to replace the MK 57 Mod 12-15 after FY 23. This was done to reflect the current population of the systems fielded and work that is being completed as all the hulls post LHD 3 and 5 are a higher configuration. In FY 25 this line will be split into new lines to clarify what efforts this funding supports. FY 24 cannot be changed during this budget cycle.

(3) I-Stalker Production Support reflects Government oversight of production, Government and Original Equipment Manufacturer (OEM) support of production-related hardware problems, Integrated Logistics Agent (ILA), Acquisition Engineering Agent (AEA), Technical Design Agent (TDA), and Professional Support Services (PSS). Since the FY24 budget request, FY23 I-Stalker Production Support increased due to additional requirements for program management and engineering services to support for the preparation and implementation of obsolescence ECP requirements.

(4) I-Stalker Engineering Change Proposal (ECP) funding requirements (3.1) address several known obsolescence and reliability issues. Since the FY24 budget submission, the increase in cost in FY23 reflects both the additional scope of work required to fully address ECP requirements and the latest price proposals received from the OEM. The system, in its current configuration, cannot be produced until the obsolescence and reliability issues are addressed. Production of new systems is required to support future installs of I-Stalker. Funding supports Non-Recurring (NRE) costs associated with the required engineering changes to address obsolescence issues with the above deck equipment, including the Sensor Suite and Independent Mount. Since the FY24 budget request, FY23 ECP funding has been increased to address the growing obsolescence requirements. In FY23, I-Stalker total funding requirements remain split between BLIs 5231 and 2980. Funding for this effort has been realigned to new BLI 2981 beginning in FY24.

(5) I-Stalker is composed of I-Stalker Independent Mount (4.1), I-Stalker Processing Module (4.2), I-Stalker Sensor Suite (4.3) and I-Stalker SAwS (4.5). The fleet installation schedule has been updated to align with the latest Fleet priorities, resulting in updated hardware procurements and installation requirements.

(6) Since the FY24 budget request, FY23 IM procurement quantities (4.1) decreased from 5 to 4 to support updated fielding plan installations, in alignment with the latest ship availability and deployment schedules. For FY22 and prior years, I-Stalker funding is contained in BLI 5231. FY23 total funding requirements remain split between BLIs 5231 and 2980. Funding for this effort has been realigned to new BLI 2981 beginning in FY24.

(7) I-Stalker installation funding includes funding for Advanced Planning (AP) and Planning Yard Design Services Allocation (DSA), which is required up to two years before the year of installation. DSA funds Ship Installation Drawings (SIDs), Alteration Installation Team (AIT) contracts, and ship-checks. Due to the rapid response nature of the I-Stalker program, installations are planned during a ship's Window of Opportunity (WOO). Install funding is assessed based on the total program requirement. Since the FY24 budget request, the FY23 installation requirement decreased due to updated fleet requirements. In FY23, I-Stalker total funding requirements were split between BLIs 5231 and 2980. Funding for this effort was realigned to new BLI 2981 beginning in FY24.

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	P-1 Line Item Number / Title: 5231 / Ship Missile Support Equipment	Aggregated Items: NATO SEASPARROW

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) I-Stalker - US005												
4.1) I-Stalker Independent Mount [6]		2023 [8]	BALL / Westminister, CO	SS / FFP	NAVSEA	Jul 2023	Jan 2025	4	615,000.00	Y		Mar 2022

Footnotes:

[8] The shift in award and delivery dates are due to delays with contract negotiations with the OEM. Additionally, since the PB24 budget request, the production lead time was revised from 12 months to 18 months for FY23 procurements.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items Title:** RAM Launchers

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) UR006 RAM Launchers Production Support [9]																				
1.1) UR006 RAM Launchers Production Support	A		-	-	18.951	-	-	0.521	-	-	0.559	-	-	6.565	-	-	-	-	-	6.565
Subtotal: 1) UR006 RAM Launchers Production Support			**-**	**-**	***18.951***	**-**	**-**	***0.521***	**-**	**-**	***0.559***	**-**	**-**	***6.565***	**-**	**-**	**-**	**-**	**-**	***6.565***
2) UR901 Systems Improvements																				
2.1) UR901 System Improvement	A		-	-	5.839	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) UR901 Systems Improvements			**-**	**-**	***5.839***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total			**-**	**-**	**24.790**	**-**	**-**	**0.521**	**-**	**-**	**0.559**	**-**	**-**	**6.565**	**-**	**-**	**-**	**-**	**-**	**6.565**

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

Footnotes:

[9] One component of the RAM launcher was in production in FY 2024. In FY 2025 complete RAM and SeaRAM launchers are in production requiring the increased production support funding. RAM Launchers Production support is an annual requirement which supports all on-going production and installation efforts. It provides Design Agent engineering and field activity support to ensure that the build to print Technical Data Package (TDP) remains up to date and the designs remain producible. It also provides contractor and government in-house critical engineering and technical support of the production line and production test equipment. Efforts include the technical investigation and resolution of production issues, resolution of test equipment issues, configuration management, reliability assessments, safety, and product acceptance efforts.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items Title:** Ship Self Defense System

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) Ship Self Defense System (SSDS)																				
1.1) UQ002 - SSDS Production Support	A		-	-	16.512	-	-	7.835	-	-	9.236	-	-	8.697	-	-	-	-	-	8.697
1.2) UQ003 - SSDS ECP / SCD	A		-	-	2.322	-	-	1.146	-	-	1.299	-	-	1.095	-	-	-	-	-	1.095
1.3) UQ004 - SSDS Training	A		-	-	6.405	-	-	1.117	-	-	1.573	-	-	1.144	-	-	-	-	-	1.144
1.4) UQ005A - SSDS COTS Eng/ Obsolescence Kits	A		-	-	19.752	-	-	0.839	-	-	0.911	-	-	0.834	-	-	-	-	-	0.834
1.5) UQ007 - Combat System Ship Qualification Trial (CSSQT) (10)	A		-	-	46.401	-	-	18.242	-	-	13.079	-	-	1.772	-	-	-	-	-	1.772
1.6) UQ008 - Combat System Documentation & Support (11)	A		-	-	20.420	-	-	5.283	-	-	5.439	-	-	5.447	-	-	-	-	-	5.447
Subtotal: 1) Ship Self Defense System (SSDS)			**-**	**-**	***111.812***	**-**	**-**	***34.462***	**-**	**-**	***31.537***	**-**	**-**	***18.989***	**-**	**-**	**-**	**-**	**-**	***18.989***
Total			**-**	**-**	**111.812**	**-**	**-**	**34.462**	**-**	**-**	**31.537**	**-**	**-**	**18.989**	**-**	**-**	**-**	**-**	**-**	**18.989**

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

Footnotes:

(10) UQ007*CSSQT Advanced Planning is done in each of the 2 years prior to the conduct of a CSSQT event SSDS CSSQT Costs in FY24 (total $13,079K) include: $ 6,609K for conduct of one LHD CSSQT event; $ 5,630K for conduct of 1 LPD CSSQT event; $ 840K for Year 1 Advanced Planning for 2 future (FY26) CSSQT events (1 LHD, 1 LPD); SSDS CSSQT in FY25 (total $1,772K) includes: $ 1,442K for Year 2 Advanced Planning for 2 future (FY26) CSSQT events (1 LHD, 1 LPD). $ 330K for Year 1 Advanced Planning for 1 future (FY27) CSSQT events (1 LPD). CSSQT cost per year vary depending on the number of CSSQT events conducted and the advanced planning required for the number of future ships CSSQT events. The cost also varies depending on the mix of ship classes (i.e., CVN, LHD, LHA, LPD, or LSD) in any given year and the CS weapons configuration. CSSQT events cost are significantly higher than advanced planning costs.

(11) UQ008 - Combat System Documentation & Waterfront Support provides for generation, update, and validation of CS documentation because of CS configuration changes during ship modernization including Ship Selected Records, Combat System Operational Sequencing System, CS Capabilities and Limitations, Combat System Interface Diagrams, Combat System Alignment Manual and the Overall CS Operability Test. This also includes Combat System Project Engineers that coordinate with other SYSCOM elements for installation coordination and system of system testing with SSDS. CS documentation is produced for all CVN and Amphibious Class Ships undergoing Combat System SSDS MK 2 upgrades.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items Title:** AEGIS Support Equipment (12)

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) Aegis Support Equipment																				
1.1) L7001 - Depot Special Tooling/Test Equipment	A		-	-	34.057	-	-	9.872	-	-	10.861	-	-	10.934	-	-	-	-	-	10.934
1.2) L7003 - Integrated Warfare Systems Laboratory	A		-	-	1.317	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) L7006 - Surface Combat Systems Center Equipment (13)	A		-	-	127.803	-	-	3.593	-	-	3.664	-	-	15.419	-	-	-	-	-	15.419
1.4) L7007 - Aegis Training and Readiness Center Upgrade (14)	A		-	-	73.726	-	-	3.183	-	-	3.247	-	-	4.896	-	-	-	-	-	4.896
1.5) L7008 - Combat System Engineering Development Site (CSEDS) (15)	A		-	-	-	-	-	-	-	-	-	-	-	1.130	-	-	-	-	-	1.130
1.6) L7011 - Aegis Weapon System Ship Change Procurement	A		-	-	89.942	-	-	5.909	-	-	6.823	-	-	6.107	-	-	-	-	-	6.107
1.7) L7012 - SPY 1D/DV Radar Enhancements (ALPS) (16)	A		-	-	79.101	-	-	14.732	-	-	21.200	-	-	21.524	-	-	-	-	-	21.524
1.8) L7014 - SPY Wholeness (17)	A		-	-	116.351	-	-	31.037	-	-	68.771	-	-	25.771	-	-	-	-	-	25.771
1.9) L7015 - AEGIS SEARAM Integration and Installation Support	A		-	-	8.256	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.10) L7016 - AEGIS TI12H Backfit	A		-	-	42.000	-	-	14.100	-	-	-	-	-	-	-	-	-	-	-	-
1.11) L7017 - Integrated Combat System Equipment (18)	A		-	-	-	-	-	16.500	-	-	-	-	-	-	-	-	-	-	-	-
1.12) L7018 - Enhance Collection System (ECS) Proc & Install Support (19)	A		-	-	-	-	-	-	-	-	-	-	-	7.700	-	-	-	-	-	7.700
1.13) L7019 - AEGIS Depot Maintenance Support (20)	A		-	-	-	-	-	-	-	-	-	-	-	15.929	-	-	-	-	-	15.929

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items Title:** AEGIS Support Equipment (12)

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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)
1.15) L7600 - Aegis Support Equipment Installation (21)	A		-	-	66.984	-	-	8.279	-	-	8.316	-	-	14.578	-	-	-	-	-	14.578
Subtotal: 1) Aegis Support Equipment			**-**	**-**	***639.537***	**-**	**-**	***107.205***	**-**	**-**	***122.882***	**-**	**-**	***123.988***	**-**	**-**	**-**	**-**	**-**	***123.988***
Total			**-**	**-**	**639.537**	**-**	**-**	**107.205**	**-**	**-**	**122.882**	**-**	**-**	**123.988**	**-**	**-**	**-**	**-**	**-**	**123.988**

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

Footnotes:

(12) Provides equipment procurement and installation support for AEGIS Shore Facilities and Shipboard Upgrades to AEGIS Cruisers and Destroyers required to maintain the readiness of the AEGIS Weapon System in support of Combatant Commanders requirements. Combat System Procurements: L7001: Special Tools & Test Equipment, MK-99 and SPY Procurements. L7003: Computers, Displays, and Simulators for Integrated Warfare Systems Laboratory (IWSL) at Dahlgren, VA. L7006: Weapon/Combat System Equipment for Surface Combat System Center (SCSC) at Wallops Island, VA. L7007: Weapon/Combat System Equipment for AEGIS Readiness Training Center (ATRC) at Dahlgren, VA. L7008: Weapon/Combat System Equipment for Combat System Engineering Development Site (CSEDS) at Moorestown, NJ L7011: AEGIS Weapon System Procurements to support Ship Change Documents. L7012: AEGIS Weapon System Procurements to support AEGIS SPY-1D/DV Enhancements for AEGIS DDGs (ALPS). L7014: AEGIS SPY Wholeness to convert 8 LNA Arrays to SPY-1 for fleet Battle Spares. L7015: AEGIS Integration and Installation support for 4 DDG to receive SEARAM upgrade. L7016: AEGIS TI-12H Backfit. L7017: Integrated Combat System (ICS) Equipment. Procures MK 6 MOD X equipment for LBTS and Infrastructure as a Service (IaaS) ORDALT kits for ships. (Effort Shifts to ICS in FY24) L7018: Enhanced Collection System (ECS) Equipment procurement and installation support. L7019: AEGIS Depot Maintenance support. L7027: AEGIS Software License Procurements to support Shore Facilities and In-Service Ship. L7600: AEGIS Installation support for approved ship changes.

(13) L7006 - Surface Combat Systems Center Equipment; FY25 increases due to AEGIS Land Based Test Site (LBTS) hardware configuration updates required to maintain test and certification plans.

(14) L7007 - Aegis Training and Readiness Center Upgrade: FY25 increases due to AEGIS LBTS hardware configuration updates required to maintain test and certification plans.

(15) L7008 - Combat System Engineering Development Site (CSEDS): FY25 increases due to AEGIS LBTS hardware configuration updates required to maintain test and certification plans.

(16) L7012 - SPY 1D/DV Radar Enhancements (ALPS): FY26 Increase due to AEGIS ALPS Procurement. Supports additional procurements in FY26 to accelerate the proliferation of ALPS into the fleet.

(17) L7014 - SPY Wholeness: FY25 Decrease is due the restructuring of the program to convert LNA Arrays to a SPY-1 configuration to support Battle Spare requirements for DDG 51 Class.

(18) L7017 - Integrated Combat System Equipment: Effort Shifts to ICS in FY24 in support of Hardware Upgrades requirement to support the implementation of ICS to existing fleet.

(19) FY25 Increase due to AEGIS Wholeness and Sustainment. Supports the procurement and installation of Enhanced Collection System (ECS) to the AEGIS fleet.

(20) FY25 Increase due to AEGIS Harvest Depot establishment. Supports the stand up of Depot Maintenance Facility to support AEGIS CG's & DDG's.

(21) FY25 Increase due to AEGIS Harvest Depot establishment and sustainment. Provides additional funding to address backlog of AEGIS Diminishing Manufacture Sources(DMS) issues effecting the operational readiness of AEGIS CG's & DDG's,

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items Title:** Integrated Combat System (ICS) Equipment

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) Infrastructure as a Service (IaaS) Equipment [22]																				
1.1) Infrastructure as a Service (IaaS) Equipment	A		-	-	-	-	-	-	-	-	20.140	-	-	24.134	-	-	-	-	-	24.134
Subtotal: .1) Infrastructure as a Service (IaaS) Equipment			**-**	**-**	***0.000***	**-**	**-**	**-**	**-**	**-**	***20.140***	**-**	**-**	***24.134***	**-**	**-**	**-**	**-**	**-**	***24.134***
Total			**-**	**-**	**0.000**	**-**	**-**	**-**	**-**	**-**	**20.140**	**-**	**-**	**24.134**	**-**	**-**	**-**	**-**	**-**	**24.134**

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

Footnotes:

[22] Procures Infrastructure as a Service (IaaS) Equipment to support combat system Land Based Test Sites and shipsets in support of DDG, FFG and US Coast Guard WMSM installations. IaaS provides automated and scalable processing, network, storage, and other resources provided to the consumer. It enables the decoupling of hardware (HW) and software (SW),and eliminates the dependencies on specific HW configurations. IaaS enables the use of all available compute, storage, and network resources, while providing capacity for future growth and capability expansion. IaaS is a key component in our transition to an ICS. The MK 6 MOD X compute infrastructure will be developed with an IaaS capability. The IaaS ORDALT kits will enable IaaS capability on legacy TI-16 MK 6 MOD 0 and TI-16 MK 6 MOD 1 compute infrastructures in the fleet today.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items Title:** MK57 SUPPORT EQUIPMENT

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) MK57 Support Equipment																				
1.1) MK57 UCEU PRODUCTION ENGINEERING and LOGISTICS SUPPORT	A		-	-	5.543	-	-	0.700	-	-	0.184	-	-	0.235	-	-	-	-	-	0.235
1.2) MK57 UCEU HARDWARE PROCUREMENT (23)(†)	A		145,000.00	160	23.200	275,850.00	40	11.034	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) MK57 Support Equipment			**-**	**-**	***28.743***	**-**	**-**	***11.734***	**-**	**-**	***0.184***	**-**	**-**	***0.235***	**-**	**-**	**-**	**-**	**-**	***0.235***
Total			**-**	**-**	**28.743**	**-**	**-**	**11.734**	**-**	**-**	**0.184**	**-**	**-**	**0.235**	**-**	**-**	**-**	**-**	**-**	**0.235**

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

(†) indicates the presence of a P-5a

Footnotes:

(23) MK57 VERTICAL LAUNCH SYSTEM (VLS) UNIVERSAL CANISTER ELECTRONICS UNIT(UCEU) PRODUCTION ENGINEERING and LOGISTICS SUPPORT: Funds provided for systems engineering, testing, engineering changes, cyber security accreditation, installation, production support, and hardware. This funding line also provides for development of training curriculum, depot repair procedures, and logistics required to maintain compatibility and interoperability with Total Ship Computing Environment (TSCE) combat system on DDG 1000 Class. MK57 VERTICAL LAUNCH SYSTEM (VLS) UCEU HARDWARE PROCUREMENT: MK57 VERTICAL LAUNCH SYSTEM (VLS) UCEU HARDWARE PROCUREMENT: Procures UCEU hardware necessary for DDG100, DDG1001 & DDG1002 to have full missile capabilities for AAW, self-defense and land attack.

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	P-1 Line Item Number / Title: 5231 / Ship Missile Support Equipment	Aggregated Items: MK57 SUPPORT EQUIPMENT

Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) MK57 Support Equipment												
1.2) MK57 UCEU HARDWARE PROCUREMENT (23)(†)		2021	Custom Manufacturing & Engineering, Inc. / Pinellas Park, FI	C / FFP	NAVSEA FIELD ACTIVITY	Mar 2021	Jan 2024	40	315,000.00	Y		Aug 2020
1.2) MK57 UCEU HARDWARE PROCUREMENT (23)(†)		2022	Custom Manufacturing & Engineering, Inc. / Pinellas Park, FI	C / FFP	NAVSEA FIELD ACTIVITY	Nov 2021	Jun 2024	40	265,000.00	Y		
1.2) MK57 UCEU HARDWARE PROCUREMENT (23)(†)		2023 (24)	Commonwealth Technology Innovation / Alexandria, VA	C / FFP	NAVSEA FIELD ACTIVITY	Oct 2023	Jun 2024	40	275,850.00	Y		

(†) indicates the presence of a P-21

Footnotes:

(24) Custom Manufacturing and Engineering (CME) was unable to deliver a complete Universal Canister Electronics Unit (UCEU). In October 2023, the production of the UCEU control modules was removed from the CME contract and awarded to Commonwealth Technology Innovation (CTI). CME will continue to produce the UCEU power modules

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items:** MK57 SUPPORT EQUIPMENT

Items (Units in Each)							Fiscal Year 2021												Fiscal Year 2022											BALANCE
							Calendar Year 2021												Calendar Year 2022												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1) MK57 Support Equipment																														
1.2) MK57 UCEU HARDWARE PROCUREMENT (23)																														
Prior Years Deliveries: 80																														
	1	2021	NAVY	40	0	40						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40
	2	2022	NAVY	40	0	40														A -	-	-	-	-	-	-	-	-	-	40
	3	2023	NAVY	40	0	40																								40
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items:** MK57 SUPPORT EQUIPMENT

Items (Units in Each)							Fiscal Year 2023												Fiscal Year 2024												BALANCE
							Calendar Year 2023												Calendar Year 2024													
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1) MK57 Support Equipment																															
1.2) MK57 UCEU HARDWARE PROCUREMENT (23)																															
Prior Years Deliveries: 80																															
	1	2021	NAVY	40	0	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40									0
	2	2022	NAVY	40	0	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40					0
	3	2023	NAVY	40	0	40													A -	-	-	-	-	-	-	40					0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items:** MK57 SUPPORT EQUIPMENT

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
					Initial				Reorder			
		MSR For 2025	1-8-5 For 2025	MAX For 2025	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Custom Manufacturing & Engineering, Inc. - Pinellas Park, Fl			TBD	0	12	0	12	0	0	12	12
2	Custom Manufacturing & Engineering, Inc. - Pinellas Park, Fl			TBD	0	0	0	0	0	0	0	0
3	Commonwealth Technology Innovation - Alexandria, VA			TBD	0	0	0	0	0	0	0	0

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

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items Title:** Vertical Launch Systems

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) Vertical Launch Systems																				
1.1) VLS ORDALTS (25)	A		-	-	3.534	-	-	0.475	-	-	0.485	-	-	0.926	-	-	-	-	-	0.926
1.2) VLS PRODUCTION ENGINEERING	A		-	-	1.423	-	-	0.212	-	-	0.219	-	-	0.224	-	-	-	-	-	0.224
Subtotal: 1) Vertical Launch Systems			**-**	**-**	***4.957***	**-**	**-**	***0.687***	**-**	**-**	***0.704***	**-**	**-**	***1.150***	**-**	**-**	**-**	**-**	**-**	***1.150***
2) 5A5IN Install Equipment N86 (26)																				
2.1) 5A5IN Install Equipment N86	A		-	-	0.448	-	-	0.059	-	-	0.059	-	-	0.059	-	-	-	-	-	0.059
Subtotal: 2) 5A5IN Install Equipment N86			**-**	**-**	***0.448***	**-**	**-**	***0.059***	**-**	**-**	***0.059***	**-**	**-**	***0.059***	**-**	**-**	**-**	**-**	**-**	***0.059***
Total			**-**	**-**	**5.405**	**-**	**-**	**0.746**	**-**	**-**	**0.763**	**-**	**-**	**1.209**	**-**	**-**	**-**	**-**	**-**	**1.209**

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

Footnotes:

(25) FY25-FY29 increases attributed to additional procurement ORDALTS Reload and Handling equipment initiatives.

(26) VLS ORDALT Installation

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	P-1 Line Item Number / Title: 5231 / Ship Missile Support Equipment	Aggregated Items Title: ANTI SHIP MISSILE DECOY SYSTEM

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) VV002 - NULKA DECOYS																				
1.1) NULKA DECOYS(†)	A		1,477K	65	96.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) VV002 - NULKA DECOYS			**-**	**-**	***96.001***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2) VV830 - PRODUCTION ENGINEERING																				
2.1) PRODUCTION ENGINEERING	A		-	-	11.042	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) VV830 - PRODUCTION ENGINEERING			**-**	**-**	***11.042***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
3) VV004 - ADAP PAYLOAD																				
3.1) ADAP PAYLOAD(†)	A		493,547.95	73	36.029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) VV004 - ADAP PAYLOAD			**-**	**-**	***36.029***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
5) VV003 - ENG CHANGE PROPOSALS (ECPs)/ILS SUPPORT																				
5.1) ECPs	A		-	-	5.184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2) Logistics/ Production Support	A		-	-	16.721	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 5) VV003 - ENG CHANGE PROPOSALS (ECPs)/ILS SUPPORT			**-**	**-**	***21.905***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
6) VV001 - NULKA SYSTEMS																				
6.1) DECOY LAUNCHING SYSTEM	A		683,666.67	6	4.102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 6) VV001 - NULKA SYSTEMS			**-**	**-**	***4.102***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total			**-**	**-**	**169.079**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

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

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	P-1 Line Item Number / Title: 5231 / Ship Missile Support Equipment	Aggregated Items: ANTI SHIP MISSILE DECOY SYSTEM

Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) VV002 - NULKA DECOYS												
1.1) NULKA DECOYS(†)		2017	BAES / AUSTRALIA	C / FFP	US Embassy, Canberra	Jun 2018	Aug 2019	21	1,456K	Y		
1.1) NULKA DECOYS(†)		2018	BAES / AUSTRALIA	C / FFP	US Embassy, Canberra	Dec 2018	Feb 2020	25	1,235K	Y		
1.1) NULKA DECOYS(†)		2019	BAES / AUSTRALIA	C / FFP	US Embassy, Canberra	Dec 2018	Dec 2020	7	1,900K	Y		
3) VV004 - ADAP PAYLOAD												
3.1) ADAP PAYLOAD(†)		2016	EXELIS / NJ	C / FFP	Naval Research Lab	Apr 2016	Jun 2018	35	537,970.00	Y		
3.1) ADAP PAYLOAD(†)		2017	EXELIS / NJ	C / FFP	Naval Research Lab	Aug 2017	Nov 2019	38	452,632.00	Y		

(†) indicates the presence of a P-21

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items:** ANTI SHIP MISSILE DECOY SYSTEM

Items (Units in Each)							Fiscal Year 2016												Fiscal Year 2017												BALANCE
							Calendar Year 2016												Calendar Year 2017													
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1) VV002 - NULKA DECOYS																															
1.1) NULKA DECOYS																															
Prior Years Deliveries: 12																															
	4	2017	NAVY	21	0	21																									21
	4	2018	NAVY	25	0	25																									25
	4	2019	NAVY	7	0	7																									7
3) VV004 - ADAP PAYLOAD																															
3.1) ADAP PAYLOAD																															
	5	2016	NAVY	35	0	35							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
	5	2017	NAVY	38	0	38																							A	-	38
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items:** ANTI SHIP MISSILE DECOY SYSTEM

Items (Units in Each)							Fiscal Year 2018												Fiscal Year 2019											
							Calendar Year 2018												Calendar Year 2019												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	BALANCE
1) VV002 - NULKA DECOYS																														
1.1) NULKA DECOYS																														
Prior Years Deliveries: 12																														
	4	2017	NAVY	21	0	21									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	18
	4	2018	NAVY	25	0	25															A -	-	-	-	-	-	-	-	-	-	25
	4	2019	NAVY	7	0	7															A -	-	-	-	-	-	-	-	-	-	7
3) VV004 - ADAP PAYLOAD																														
3.1) ADAP PAYLOAD																														
	5	2016	NAVY	35	0	35	-	-	-	-	-	-	-	-	2	3	3	3	3	3	3	3	3	3	3	3	3				0
	5	2017	NAVY	38	0	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items:** ANTI SHIP MISSILE DECOY SYSTEM

Items (Units in Each)							Fiscal Year 2020												Fiscal Year 2021												BALANCE
										Calendar Year 2020													Calendar Year 2021										
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1) VV002 - NULKA DECOYS																															
1.1) NULKA DECOYS																															
Prior Years Deliveries: 12																															
	4	2017	NAVY	21	3	18	2	2	2	2	1	1	2	2	2	2															0
	4	2018	NAVY	25	0	25	-	-	-	-	2	3	2	2	2	2	2	2	2	2	2	2									0
	4	2019	NAVY	7	0	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1				0
3) VV004 - ADAP PAYLOAD																															
3.1) ADAP PAYLOAD																															
	5	2016	NAVY	35	35	0																									0
	5	2017	NAVY	38	0	38	-	2	3	3	4	3	3	4	3	4	3	3	3												0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items:** ANTI SHIP MISSILE DECOY SYSTEM

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
					Initial				Reorder			
		MSR For 2025	1-8-5 For 2025	MAX For 2025	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	BAES - AUSTRALIA			192	0	6	12	18	0	0	12	12
2	EXELIS - NJ			TBD	0	0	12	12	0	0	12	12

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

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Aggregated Items Title:** OTH Weapon System

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) OTH Weapon System																				
1.1) OTH PROCUREMENT(†)	A		778,153.85	13	10.116	511,686.00	6	3.070	-	-	-	-	-	-	-	-	-	-	-	-
1.2) OTH SUPPORT	A		-	-	2.065	-	-	1.109	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) OTH Weapon System			**-**	**-**	***12.181***	**-**	**-**	***4.179***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2) OTH WS INSTALLATION (27)																				
2.1) OTH WS INSTALLATION	A		-	-	18.700	-	-	5.876	-	-	6.659	-	-	8.976	-	-	-	-	-	8.976
Subtotal: 2) OTH WS INSTALLATION			**-**	**-**	***18.700***	**-**	**-**	***5.876***	**-**	**-**	***6.659***	**-**	**-**	***8.976***	**-**	**-**	**-**	**-**	**-**	***8.976***
Total			**-**	**-**	**30.881**	**-**	**-**	**10.055**	**-**	**-**	**6.659**	**-**	**-**	**8.976**	**-**	**-**	**-**	**-**	**-**	**8.976**

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

(†) indicates the presence of a P-5a

Footnotes:

(27) FY2025 increases due to fleet requirement increase from two to three installations on LCS 22, LCS 36, and LCS 38 at ~$3M per ship.

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	P-1 Line Item Number / Title: 5231 / Ship Missile Support Equipment	Aggregated Items: OTH Weapon System

Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) OTH Weapon System												
1.1) OTH PROCUREMENT		2019	Raytheon CO / Tucson, AZ	C / FFP	NAVSEA	Oct 2018	Oct 2020	1	2,874K	Y		Feb 2017
1.1) OTH PROCUREMENT		2020	Raytheon CO / Tucson, AZ	C / FFP	NAVSEA	Feb 2020	Feb 2022	2	711,914.00	Y		Feb 2017
1.1) OTH PROCUREMENT		2021	Raytheon CO / Tucson, AZ	C / FFP	NAVSEA	Mar 2021	Mar 2023	4	628,302.00	Y		Feb 2017
1.1) OTH PROCUREMENT		2022	Raytheon CO / Tucson, AZ	C / FFP	NAVSEA	May 2022	May 2024	6	550,782.00	Y		Feb 2017
1.1) OTH PROCUREMENT		2023	Raytheon CO / Tucson, AZ	C / FFP	NAVSEA	Mar 2023	Mar 2025	6	511,686.00	Y		Feb 2017

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	P-1 Line Item Number / Title: 5231 / Ship Missile Support Equipment	Aggregated Items Title: DRAKE

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) DRAKE- SUBMARINE WARFARE (N97)																				
1.2) Technical Insertion- Increment 1 [28]	A		-	-	-	-	-	-	-	-	0.154	-	-	0.151	-	-	-	-	-	0.151
Subtotal: .1) DRAKE- SUBMARINE WARFARE (N97)			**-**	**-**	***0.000***	**-**	**-**	**-**	**-**	**-**	***0.154***	**-**	**-**	***0.151***	**-**	**-**	**-**	**-**	**-**	***0.151***
Total			**-**	**-**	**0.000**	**-**	**-**	**-**	**-**	**-**	**0.154**	**-**	**-**	**0.151**	**-**	**-**	**-**	**-**	**-**	**0.151**

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

Footnotes:

[28] DRAKE SYSTEMS/TECH INSERTION UNDERSEA ENTERPRISE: Procures Engineering Change Proposals (ECPs) for DRAKE 2.0 systems and Retrofit Kits to upgrade DRAKE 1.0 Systems currently fielded onboard all Submarine Classes. DRAKE utilizes open software architecture and Software Defined Radios, enabling upgrades as threats evolve. DRAKE 2.0 capability will be developed and fielded in two increments and DRAKE 1.0 systems will be retrofit to 2.0. Technical Correction Realigned funds to EOD CREW Budget Exhibit LI 5509.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	P-1 Line Item Number / Title: 5231 / Ship Missile Support Equipment	Modification Number / Title: 1 / NATO SEASPARROW
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	61.141	16.725	16.477	12.256	0.000	12.256	32.541	38.336	44.691	63.435	24.393	309.995
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	61.141	16.725	16.477	12.256	0.000	12.256	32.541	38.336	44.691	63.435	24.393	309.995
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**61.141**	**16.725**	**16.477**	**12.256**	**0.000**	**12.256**	**32.541**	**38.336**	**44.691**	**63.435**	**24.393**	**309.995**
(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:

Equipment procurements on the P3a

1. Objective Configuration H/W line supports the NSSMS Mk57 Mod 14 (L class ships) for installation on six LHD 1 class ships.
2. Launcher Min-Mod to BLK 2 H/W line procures equipment required to support the BLK 2 capability on LHA/LHD/CVN Class ships.
3. A new transmitter replacement program is in process to provide near term replacement of the obsolete MK73 Mod 3 Continuous Wave Transmitter Illuminator (CWTI) that can no longer be procured.
4. Launcher replacement program required for fielding of ESSM BLK 2 missile capability integrated in an optimized fashion. This effort is intended to replace 1970's era MK 29 Guided Missile Launching System (GMLS) which is growing obsolete.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 1 / NATO SEASPARROW
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: MK 57	**Modification Type:** NSSMS Mk 57	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 4: Objective Configuration												
A Kits												
Non-Recurring												
1.1.1) Objective Configuration (LHD 1 Class Forward Fit H/W) - NonOrganic	4 / 40.453	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 40.453
1.1.2) Objective Configuration H/W (LHA/LHD/CVN) Backfit - NonOrganic [29]	4 / 0.828	1 / 0.206	- / -	1 / 0.218	- / -	1 / 0.218	2 / 0.225	1 / 0.232	1 / 0.239	1 / 0.246	- / -	11 / 2.194
Subtotal: Non-Recurring	*- / 41.281*	*- / 0.206*	*- / -*	*- / 0.218*	*- / -*	*- / 0.218*	*- / 0.225*	*- / 0.232*	*- / 0.239*	*- / 0.246*	*- / 0.000*	*- / 42.647*
Subtotal: Objective Configuration	*8 / 41.281*	*1 / 0.206*	*- / -*	*1 / 0.218*	*- / -*	*1 / 0.218*	*2 / 0.225*	*1 / 0.232*	*1 / 0.239*	*1 / 0.246*	*- / -*	*15 / 42.647*
Modification Item 2 of 4: Launcher Min-Mod to Blk 2												
A Kits												
Non-Recurring												
2.1.1) Launcher Min-Mod Blk 2 Capability H/W - NonOrganic [30]	2 / 5.000	- / -	1 / 1.134	1 / 0.200	- / -	1 / 0.200	1 / 0.206	1 / 0.213	1 / 0.221	1 / 0.229	- / -	8 / 7.203
Subtotal: Non-Recurring	*- / 5.000*	*- / -*	*- / 1.134*	*- / 0.200*	*- / -*	*- / 0.200*	*- / 0.206*	*- / 0.213*	*- / 0.221*	*- / 0.229*	*- / 0.000*	*- / 7.203*
Subtotal: Launcher Min-Mod to Blk 2	*2 / 5.000*	*- / -*	*1 / 1.134*	*1 / 0.200*	*- / -*	*1 / 0.200*	*1 / 0.206*	*1 / 0.213*	*1 / 0.221*	*1 / 0.229*	*- / -*	*8 / 7.203*
Modification Item 3 of 4: MK9 Mod 2 CWTI Enhancement H/W Procurement												
A Kits												
Non-Recurring												
3.1.1) MK 9 Mod 2 CWTI Enhancement H//W - NonOrganic	- / -	1 / 9.114	2 / 9.250	2 / 10.470	- / -	2 / 10.470	2 / 10.781	2 / 11.106	2 / 11.322	2 / 10.845	- / -	13 / 72.888
Subtotal: Non-Recurring	*- / 0.000*	*- / 9.114*	*- / 9.250*	*- / 10.470*	*- / -*	*- / 10.470*	*- / 10.781*	*- / 11.106*	*- / 11.322*	*- / 10.845*	*- / 0.000*	*- / 72.888*
Subtotal: MK9 Mod 2 CWTI Enhancement H/W Procurement	*- / -*	*1 / 9.114*	*2 / 9.250*	*2 / 10.470*	*- / -*	*2 / 10.470*	*2 / 10.781*	*2 / 11.106*	*2 / 11.322*	*2 / 10.845*	*- / -*	*13 / 72.888*
Modification Item 4 of 4: ESSM Next Generation Launcher (NGL)												
A Kits												
Non-Recurring												
4.1.1) Next Generation Launcher (NGL) Procurement - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	1 / 17.340	1 / 22.537	1 / 23.344	2 / 41.811	- / -	5 / 105.032
Subtotal: Non-Recurring	*- / 0.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 17.340*	*- / 22.537*	*- / 23.344*	*- / 41.811*	*- / 0.000*	*- / 105.032*
Subtotal: ESSM Next Generation Launcher (NGL)	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*1 / 17.340*	*1 / 22.537*	*1 / 23.344*	*2 / 41.811*	*- / -*	*5 / 105.032*

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 1 / NATO SEASPARROW
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: MK 57	**Modification Type:** NSSMS Mk 57	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: Procurement, All Modification Items	- / *46.281*	- / *9.320*	- / *10.384*	- / *10.888*	- / -	- / *10.888*	- / *28.552*	- / *34.088*	- / *35.126*	- / *53.131*	- / *0.000*	- / *227.770*
Installation												
Modification Item 1 of 4: Objective Configuration	- / 12.860	- / 7.405	- / 5.283	- / 0.000	- / 0.000	- / 0.000	- / 2.421	- / 2.491	- / 2.253	- / 2.631	- / 2.637	- / 37.981
Modification Item 2 of 4: Launcher Min-Mod to Blk 2	- / 2.000	- / 0.000	- / 0.810	- / 0.050	- / 0.000	- / 0.050	- / 0.053	- / 0.055	- / 0.057	- / 0.059	- / 0.000	- / 3.084
Modification Item 3 of 4: MK9 Mod 2 CWTI Enhancement H/W Procurement	- / 0.000	- / 0.000	- / 0.000	- / 1.318	- / 0.000	- / 1.318	- / 1.515	- / 1.702	- / 1.951	- / 2.204	- / 5.546	- / 14.236
Modification Item 4 of 4: ESSM Next Generation Launcher (NGL)	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 5.304	- / 5.410	- / 16.210	- / 26.924
Subtotal: Installation	- / *14.860*	- / *7.405*	- / *6.093*	- / *1.368*	- / -	- / *1.368*	- / *3.989*	- / *4.248*	- / *9.565*	- / *10.304*	- / *24.393*	- / *82.225*
Total												
Total Cost (Procurement + Support + Installation)	**61.141**	**16.725**	**16.477**	**12.256**	**0.000**	**12.256**	**32.541**	**38.336**	**44.691**	**63.435**	**24.393**	**309.995**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 1 / NATO SEASPARROW
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 4: Objective Configuration

Installation Information

Method of Implementation: AIT:: Installation Name: Objective Configuration (LHD 1 Class Forward Fit H/W)

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 8.800	1 / 3.100	1 / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 14.900
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 8.800	1 / 3.100	1 / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 14.900

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Out	2	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4

Method of Implementation: [none specified]:: Installation Name: Objective Configuration H/W (LHA/LHD/CVN) Backfit

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 4.060	2 / 4.305	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 8.365
FY 2023	- / -	- / -	1 / 2.283	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 2.283
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.421	- / -	- / -	- / -	0 / 0.000	1 / 2.421
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.491	- / -	- / -	0 / 0.000	2 / 2.491
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.253	- / -	0 / 0.000	1 / 2.253
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.631	0 / 0.000	1 / 2.631
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 2.637	1 / 2.637
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 1 / NATO SEASPARROW
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 1 of 4: Objective Configuration

Installation Information

Method of Implementation: [none specified]:: Installation Name: Objective Configuration H/W (LHA/LHD/CVN) Backfit

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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	2 / 4.060	2 / 4.305	1 / 2.283	- / -	- / -	- / -	1 / 2.421	2 / 2.491	1 / 2.253	1 / 2.631	1 / 2.637	11 / 23.081

Installation Schedule

		FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029					
	PYS	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	-	-	-	1	-	-	-	-	1	1	11
Out	1	1	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	1	1	1	-	-	-	-	2	11

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 1 / NATO SEASPARROW
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 2 of 4: Launcher Min-Mod to Blk 2

Installation Information

Method of Implementation: AIT:: Installation Name: Launcher Min-Mod Blk 2 Capability H/W

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	2 / 2.000
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	1 / 0.810	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.810
FY 2025	- / -	- / -	- / -	1 / 0.050	0 / 0.000	1 / 0.050	- / -	- / -	- / -	- / -	0 / 0.000	1 / 0.050
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.053	- / -	- / -	- / -	0 / 0.000	1 / 0.053
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.055	- / -	- / -	0 / 0.000	1 / 0.055
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.057	- / -	0 / 0.000	1 / 0.057
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.059	0 / 0.000	1 / 0.059
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 2.000	- / -	1 / 0.810	1 / 0.050	0 / 0.000	1 / 0.050	1 / 0.053	1 / 0.055	1 / 0.057	1 / 0.059	0 / 0.000	8 / 3.084

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	-	8
Out	2	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	-	-	-	-	1	-	1	-	-	-	-	1	8

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 1 / NATO SEASPARROW
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 3 of 4: MK9 Mod 2 CWTI Enhancement H/W Procurement

Installation Information

Method of Implementation: AIT:: Installation Name: MK 9 Mod 2 CWTI Enhancement H//W

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 2023	- / -	- / -	- / -	1 / 1.318	0 / 0.000	1 / 1.318	- / -	- / -	- / -	- / -	0 / 0.000	1 / 1.318
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.515	- / -	- / -	- / -	0 / 0.000	2 / 1.515
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.702	- / -	- / -	0 / 0.000	2 / 1.702
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.951	- / -	0 / 0.000	2 / 1.951
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.204	0 / 0.000	2 / 2.204
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.582	2 / 2.582
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.964	2 / 2.964
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 1.318	0 / 0.000	1 / 1.318	2 / 1.515	2 / 1.702	2 / 1.951	2 / 2.204	4 / 5.546	13 / 14.236

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	-	-	-	-	2	-	-	-	-	2	4	13
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	2	-	2	-	-	-	-	6	13

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 1 / NATO SEASPARROW
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 4 of 4: ESSM Next Generation Launcher (NGL)

Installation Information

Method of Implementation: AIT:: Installation Name: Next Generation Launcher (NGL) Procurement

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.304	- / -	0 / 0.000	1 / 5.304
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.410	0 / 0.000	1 / 5.410
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.410	1 / 5.410
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 10.800	2 / 10.800
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.304	1 / 5.410	3 / 16.210	5 / 26.924

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	5
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5

Footnotes:

(29) This line provides funding for NSSMS MK 57 Mods 14/15 Objective Configuration Upgrades on CVN/LHD class ships. This effort consists mainly of Alteration Installation Team (AIT) efforts to remove the Q70s and install new cables and install updated software. This effort has very small hardware requirements. Out year FY 26 - 29 have been added to support additional ship upgrades.

(30) With the change in current Min Mod program technical approach which requires additional engineering and less hardware the hardware/install funding lines have been reduced.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	P-1 Line Item Number / Title: 5231 / Ship Missile Support Equipment	Modification Number / Title: 2 / UR006 RAM LAUNCHERS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	40.807	6.532	6.663	80.228	0.000	80.228	55.572	61.828	58.144	59.148	543.162	912.084
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	40.807	6.532	6.663	80.228	0.000	80.228	55.572	61.828	58.144	59.148	543.162	912.084
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**40.807**	**6.532**	**6.663**	**80.228**	**0.000**	**80.228**	**55.572**	**61.828**	**58.144**	**59.148**	**543.162**	**912.084**
(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:

Rolling Airframe Missile (RAM) is a cooperative program executed under a series of production Memorandums of Understanding between the U.S. and the Federal Republic of Germany. RAM is a high firepower missile used primarily to defeat Anti-Ship Cruise Missiles (ASCMs) and other anti-air warfare threats with no dependence on ship's fire control illuminators for terminal guidance. The RAM missile is fired from the RAM Guided Missile Launching System (GMLS) (MK-49), which holds 21 rounds or from the Close-In Weapon System (CIWS) SeaRAM (MK-15) which holds 11 rounds. Both launching systems are compatible with various platforms ranging from USN aircraft carriers (CVN) to Littoral Combat Ship (LCS) to Guided Missile Destroyers (DDGs). The MK49 GMLS requires full integration within the ship's combat system. The SeaRAM system contains its own radar for detection and tracking enabling it to be employed with minimal ship combat system integration.

FY25 funding supports the hardware procurement and installation of Ordnance Alterations (ORDALT) to address safety, obsolescence, and enable the firing of new missile variants and supports procurement and installation of launchers on in-service DDGs in accordance with recent Naval Capability Board decision to outfit the ARLEIGH BURKE class destroyers with increased terminal defense capabilities.

For ORDALTs the hardware production lead time is 24 months and installations are executed in accordance with Ship Maintenance Availability Schedules. The FY25 procurements include the Firepower ORDALT and the Shock Hardening ORDALT. The Firepower ORDALT is necessary to employ the latest and most capable RAM Block 2B missile. The Firepower ORDALT also supports launcher readiness by addressing obsolescence of multiple components in the legacy configuration. The Shock ORDALT will address safety deficiencies identified during testing that could render the launcher inoperable in the event of a major ship shock event.

For launchers the hardware production lead time is 36 months and installations are executed in accordance with Ship Maintenance Availability Schedules. In FY25 procurements and installation of both launching systems will occur. The MK-49 launcher will be utilized on DDGs with the latest combat system and the SeaRAM launcher will be utilized on DDGs that do not have a combat system that is compatible with the MK-49. The launchers will replace the currently installed Phalanx Close-In Weapon System (CIWS).

FY25 RAM procurement quantities: (8) Firepower ORDALTs, (8) Shock Hardening ORDALTs, (5) MK 49 GMLS and (3) SeaRAM systems.

FY25 RAM installations: (8) Firepower ORDALTs, (2) Shock Hardening ORDALTs, (2) MK 49 GMLS and (2) SeaRAM systems.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 2 / UR006 RAM LAUNCHERS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: MK-49 GMLS / MK-15 SeaRAM	**Modification Type:** NON-FMP Install	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*
Procurement												
Modification Item 1 of 2: RAM MK-49 GMLS ORDALTS												
B Kits												
Recurring												
1.1.1) RAM MK-49 GMLS ORDALTS - NonOrganic	35 / 14.473	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 14.473
1.1.2) MK-49 GMLS Firepower ORDALT - NonOrganic (31)	30 / 14.420	8 / 4.002	4 / 2.551	8 / 5.209	- / -	8 / 5.209	6 / 3.989	6 / 4.073	6 / 4.158	6 / 4.246	4 / 2.890	78 / 45.538
1.1.3) MK-49 GMLS Shock Hardening ORDALT - NonOrganic (32)	- / -	2 / 1.000	4 / 2.551	8 / 2.400	- / -	8 / 2.400	6 / 1.838	6 / 1.876	6 / 1.916	6 / 1.956	50 / 19.071	88 / 32.608
Subtotal: Recurring	*- / 28.893*	*- / 5.002*	*- / 5.102*	*- / 7.609*	*- / -*	*- / 7.609*	*- / 5.827*	*- / 5.949*	*- / 6.074*	*- / 6.202*	*- / 21.961*	*- / 92.619*
Subtotal: RAM MK-49 GMLS ORDALTS	*65 / 28.893*	*10 / 5.002*	*8 / 5.102*	*16 / 7.609*	*- / -*	*16 / 7.609*	*12 / 5.827*	*12 / 5.949*	*12 / 6.074*	*12 / 6.202*	*54 / 21.961*	*201 / 92.619*
Modification Item 2 of 2: Launcher Procurements												
B Kits												
Recurring												
2.1.1) Replace Phalanx with MK-49 RAM ORDALT - NonOrganic (33)	6 / 0.000	- / -	- / -	5 / 35.625	- / -	5 / 35.625	3 / 12.300	3 / 17.646	3 / 12.609	3 / 12.874	30 / 298.199	53 / 389.253
2.1.2) Replace Phalanx with SeaRAM ORDALT - NonOrganic (34)	6 / 0.000	- / -	- / -	3 / 21.000	- / -	3 / 21.000	3 / 21.441	3 / 21.891	1 / 7.450	2 / 15.214	1 / 7.767	19 / 94.763
Subtotal: Recurring	*- / 0.000*	*- / -*	*- / -*	*- / 56.625*	*- / -*	*- / 56.625*	*- / 33.741*	*- / 39.537*	*- / 20.059*	*- / 28.088*	*- / 305.966*	*- / 484.016*
Subtotal: Launcher Procurements	*12 / 0.000*	*- / -*	*- / -*	*8 / 56.625*	*- / -*	*8 / 56.625*	*6 / 33.741*	*6 / 39.537*	*4 / 20.059*	*5 / 28.088*	*31 / 305.966*	*72 / 484.016*
Subtotal: Procurement, All Modification Items	*- / 28.893*	*- / 5.002*	*- / 5.102*	*- / 64.234*	*- / -*	*- / 64.234*	*- / 39.568*	*- / 45.486*	*- / 26.133*	*- / 34.290*	*- / 327.927*	*- / 576.635*
Installation												
Modification Item 1 of 2: RAM MK-49 GMLS ORDALTS	- / 11.914	- / 1.530	- / 1.561	- / 1.594	- / 0.000	- / 1.594	- / 1.302	- / 1.330	- / 1.358	- / 1.386	- / 17.679	- / 39.654
Modification Item 2 of 2: Launcher Procurements	- / 0.000	- / 0.000	- / 0.000	- / 14.400	- / 0.000	- / 14.400	- / 14.702	- / 15.012	- / 30.653	- / 23.472	- / 197.556	- / 295.795
Subtotal: Installation	*- / 11.914*	*- / 1.530*	*- / 1.561*	*- / 15.994*	*- / -*	*- / 15.994*	*- / 16.004*	*- / 16.342*	*- / 32.011*	*- / 24.858*	*- / 215.235*	*- / 335.449*
Total												
Total Cost (Procurement + Support + Installation)	**40.807**	**6.532**	**6.663**	**80.228**	**0.000**	**80.228**	**55.572**	**61.828**	**58.144**	**59.148**	**543.162**	**912.084**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 2 / UR006 RAM LAUNCHERS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 2: RAM MK-49 GMLS ORDALTS

Manufacturer Information

Manufacturer Name: Raytheon Co.	Manufacturer Location: Louisville KY
Administrative Leadtime *(in Months)*: 0	Production Leadtime *(in Months)*: 24

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates	Jun 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028	Mar 2029
Delivery Dates	Jun 2025	Mar 2026	Mar 2027	Mar 2028	Mar 2029	Mar 2030	Mar 2031

Manufacturer Name: Raytheon, Co	Manufacturer Location: Louisville KY
Administrative Leadtime *(in Months)*: 0	Production Leadtime *(in Months)*: 24

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates	Jun 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028	Mar 2029
Delivery Dates	Jun 2025	Mar 2026	Mar 2027	Mar 2028	Mar 2029	Mar 2030	Mar 2031

Installation Information

Method of Implementation: NON-FMP Install:: Installation Name: RAM MK-49 GMLS ORDALTS

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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	35 / 10.414	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	35 / 10.414
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	35 / 10.414	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	35 / 10.414

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
Out	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 2 / UR006 RAM LAUNCHERS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 2: RAM MK-49 GMLS ORDALTS

Installation Information

Method of Implementation: NON-FMP Install:: Installation Name: MK-49 GMLS Firepower ORDALT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 1.500	10 / 1.530	10 / 1.561	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	30 / 4.591
FY 2023	- / -	- / -	- / -	8 / 1.275	0 / 0.000	8 / 1.275	- / -	- / -	- / -	- / -	0 / 0.000	8 / 1.275
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.651	- / -	- / -	- / -	0 / 0.000	4 / 0.651
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.665	- / -	- / -	0 / 0.000	8 / 0.665
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.679	- / -	0 / 0.000	6 / 0.679
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.693	0 / 0.000	6 / 0.693
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.707	6 / 0.707
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.722	6 / 0.722
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.737	4 / 0.737
Total	10 / 1.500	10 / 1.530	10 / 1.561	8 / 1.275	0 / 0.000	8 / 1.275	4 / 0.651	8 / 0.665	6 / 0.679	6 / 0.693	16 / 2.166	78 / 10.720

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	-	-	10	-	-	-	10	-	2	2	4	-	-	2	2	-	2	3	3	-	2	2	2	-	2	2	2	-	16	78
Out	10	-	-	-	10	-	-	-	10	-	2	2	4	-	-	2	2	-	2	3	3	-	2	2	2	-	2	2	2	16	78

Method of Implementation: NON-FMP Install:: Installation Name: MK-49 GMLS Shock Hardening ORDALT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 2023	- / -	- / -	- / -	2 / 0.319	0 / 0.000	2 / 0.319	- / -	- / -	- / -	- / -	0 / 0.000	2 / 0.319
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.651	- / -	- / -	- / -	0 / 0.000	4 / 0.651
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 0.665	- / -	- / -	0 / 0.000	8 / 0.665
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.679	- / -	0 / 0.000	6 / 0.679
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.693	0 / 0.000	6 / 0.693
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.707	6 / 0.707
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.722	6 / 0.722
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 14.084	50 / 14.084

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 2 / UR006 RAM LAUNCHERS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 2: RAM MK-49 GMLS ORDALTS

Installation Information

Method of Implementation: NON-FMP Install:: Installation Name: MK-49 GMLS Shock Hardening ORDALT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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	- / -	- / -	- / -	2 / 0.319	0 / 0.000	2 / 0.319	4 / 0.651	8 / 0.665	6 / 0.679	6 / 0.693	62 / 15.513	88 / 18.520

Installation Schedule

		FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029					
	PYS	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	2	-	2	3	3	-	2	2	2	-	2	2	2	-	62	88
Out	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	2	-	2	3	3	-	2	2	2	-	2	2	2	62	88

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 2 / UR006 RAM LAUNCHERS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 2 of 2: Launcher Procurements

Manufacturer Information

Manufacturer Name: Raytheon - Co	Manufacturer Location: Louisville KY
Administrative Leadtime *(in Months)*: 0	Production Leadtime *(in Months)*: 36

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates	Jun 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028	Mar 2029
Delivery Dates	Jun 2025	Mar 2027	Mar 2028	Mar 2029	Mar 2030	Mar 2031	Mar 2032

Manufacturer Name: Raytheon Com	Manufacturer Location: Louisville KY
Administrative Leadtime *(in Months)*: 0	Production Leadtime *(in Months)*: 36

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates	Jun 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028	Mar 2029
Delivery Dates	Jun 2025	Mar 2027	Mar 2028	Mar 2029	Mar 2030	Mar 2031	Mar 2032

Installation Information

Method of Implementation: NON-FMP Install:: Installation Name: Replace Phalanx with MK-49 RAM ORDALT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 0.000	- / -	- / -	0 / 7.200	0 / 0.000	0 / 7.200	0 / 7.351	0 / 7.506	- / -	- / -	0 / 0.000	6 / 22.057
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 19.158	- / -	0 / 0.000	5 / 19.158
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.736	0 / 0.000	3 / 11.736
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.983	3 / 11.983
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.495	3 / 11.495
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 12.491	3 / 12.491
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 132.948	30 / 132.948
Total	6 / 0.000	- / -	- / -	0 / 7.200	0 / 0.000	0 / 7.200	0 / 7.351	0 / 7.506	5 / 19.158	3 / 11.736	39 / 168.917	53 / 221.868

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	2	2	-	-	2	1	-	39	53
Out	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	1	-	-	1	1	-	1	2	2	-	1	1	1	39	53

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 2 / UR006 RAM LAUNCHERS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 2 of 2: Launcher Procurements

Installation Information

Method of Implementation: NON-FMP Install:: Installation Name: Replace Phalanx with SeaRAM ORDALT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 0.000	- / -	- / -	0 / 7.200	0 / 0.000	0 / 7.200	0 / 7.351	0 / 7.506	- / -	- / -	0 / 0.000	6 / 22.057
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.495	- / -	0 / 0.000	3 / 11.495
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.736	0 / 0.000	3 / 11.736
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 11.983	3 / 11.983
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.078	1 / 4.078
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 8.327	2 / 8.327
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.251	1 / 4.251
Total	6 / 0.000	- / -	- / -	0 / 7.200	0 / 0.000	0 / 7.200	0 / 7.351	0 / 7.506	3 / 11.495	3 / 11.736	7 / 28.639	19 / 73.927

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	2	1	-	7	19
Out	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	1	-	-	1	1	-	1	1	1	-	1	1	1	7	19

Footnotes:

(31) The Firepower ORDALT is necessary to employ the latest and most capable RAM Block 2B missile. The Firepower ORDALT also supports launcher readiness by addressing obsolescence of multiple components in the legacy configuration. The hardware production lead time is 24 months and installations are executed in accordance with Ship Maintenance Availability Schedules.

(32) The Shock Hardening ORDALT will address safety deficiencies identified during testing that could render the launcher inoperable in the event of a major ship shock event. The hardware production lead time is 24 months and installations are executed in accordance with Ship Maintenance Availability Schedules. FY24 to FY25 costs are reduced due to the additional leverage gained from launcher quantities increasing from 0 in FY24 to 3 in FY25 (see modification item 2).

(33) In FY25 the RAM MK-49 procurements will be new production. In FY26-FY29 RAM MK-49 launchers from decommissioning ships will be leveraged providing a production cost savings compared to FY25. The hardware production lead time is 36 months and installations are executed in accordance with Ship Maintenance Availability Schedules. Launcher installations that are occurring in FY25-27 are leveraging assets from decommissioned ships.

(34) The hardware production lead time is 36 months and installations are executed in accordance with Ship Maintenance Availability Schedules. Launcher installations that are occurring in FY25-27 are leveraging assets from decommissioned ships.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 3 / UQ005B - SSDS COTS CONVERSION KITS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	427.089	53.837	71.192	83.102	0.000	83.102	70.333	81.135	74.746	73.082	12.495	947.011
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	427.089	53.837	71.192	83.102	0.000	83.102	70.333	81.135	74.746	73.082	12.495	947.011
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**427.089**	**53.837**	**71.192**	**83.102**	**0.000**	**83.102**	**70.333**	**81.135**	**74.746**	**73.082**	**12.495**	**947.011**
(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:

Procurement for computing Infrastructure (CI) configuration for ship systems began in FY23.

Estimates for the procurement and installation of kits varies on the specific ship class (CVNs, LPDs, LSDs, LHAs, and LHDs), and the existing configuration of the ship.
The SSDS OPN UQ005 supports field changes to the in-service baselines, and the establishment of new baseline configurations at the shore sites. The cost for the kits varies significantly depending on the site, its existing configuration, and mission of the site. This includes procurement of hardware components for CAC2S Afloat. The SSDS procurement includes TI-16 TR and CI equipment for the competitive CSEA contract for continuing the development of the SSDS MK 2 Build 12 baseline. Schedule changes are attributed to the Fleet changing ship modernization schedules to address operational requirements.
The Program office over the 2022 budget cycle refined the Hardware and Software procurement costs and timelines. Additionally, all cost codes were evaluated to ensure tasking was accurately reported in the correct cost code. Starting in FY22 and out years, these refinements in lead times, costs, and cost code reporting have been implemented. Part of this refinement now documents software being procured over multiple years to account for the build of the tactical software load, procurement of software licenses (ie Red Hat, High Speed Guard) and annual software license renewals and certification. Additionally, this refinement documents the final installation checkout activities. In FY22 Cyber Security costs have been moved to UA005A cost code. In FY23, procurements are starting to transition from TI-16 TR configuration to the new Computing Infrastructure (CI) configuration. This transition impacts cost for hardware, installation and advanced planning. The lead ship class will be the LPDs for the new CI configuration. Cost will vary based on the new CI configuration.

SSDS FY24 unit costs are:
$ 30,631K for (1) CVN and (1) LHD TI-16 TR COTS Conversion Computing Infrastructure Kits
$ 11,207K for (1) Shore Site (CI)
$ 10,861K for SW tactical build, SW licenses, annual SW licenses and certification
$ 5,210K for CAC2S
Total Cost for 2 ship System and 1 shore site units including SW & CAC2S Afloat in FY24 (UQ005B) is $57,909K

SSDS Ship Installation Costs in FY24 (total $10,158K) include:
$ 6,855K for AIT/DSA for installation of (1) LPD Kit (TI-16 TR)
$ 759K for final checkout on 1 Ship (1 LHD)
$ 847K for Year 2 advanced planning/DSA* for 2 future (FY25) hull (LPD, CVN)
$ 1,697K and Year 1 Advanced Planning/DSA* for 2 future (FY26) Hulls (LHD, LPD)

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 3 / UQ005B - SSDS COTS CONVERSION KITS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

SSDS Shore Installation Costs in FY24 (total $3,125K) include:
$ 430K for 1 Shore Site installation
$ 2,695K for Advanced planning for 1 future (FY25) shore Site installation

SSDS FY25 unit costs are:
$ 23,467K for (1) LHA and (1) LHD TI-16 TR COTS Conversion Computing Infrastructure Kits
$ 27,528K for (2) Shore Site (CI)
$ 8,714K for SW tactical build, SW licenses, annual SW licenses and certification
$ 5,330K for CAC2S
Total Cost for 2 ship System and 2 shore site units including SW & CAC2S Afloat in FY25 (UQ005B) is $65,039K

SSDS Ship Installation Costs in FY25 (total $14,533K) include:
$ 4,124K for AIT/DSA for installation of (1) LPD Kit (TI-16 TR)
$ 7,013K for final checkout on 2 Ships (1 LHD and 1 LPD)
$ 1,022K for Year 2 Advanced planning/DSA* for 2 future (FY26) hull (LHA, CVN)
$ 2,374K for Year 1 Advanced planning/DSA* for 2 future (FY27) hull (LHD, LPD)

SSDS Shore Installation Costs in FY25 (total $3,530K) include:
$ 399K for 1 Shore Site installation
$ 3,131K for Advanced planning for 2 future (FY26) shore Site installation

*Advanced Planning is done in each of the 2 years prior to an installation. Installation funds are required to be on contract and at field activities 90-150 days prior to installation start.

Note: SSDS cost have increased primarily as a result of the transition to the new Computing Infrastructure configuration. Supply chain issues, implementation of required engineering changes to address hardware component obsolescence and diminishing manufacturing sourcing issues has also contributed to cost growth.

Ship Installation Cost, which includes advanced planning, will vary per year depending on the quantities of ships, the mix of ship classes, the configuration of the specific hull (i.e., CVN, LHD, LHA, LPD, or LSD) and the geographical location of the CNO availability (e.g., Bremerton, Norfolk, San Diego). Installation funds are required to be on contract and at field activities 90-150 days prior to installation start. Installation cost is significantly higher than advanced planning. This can cause large variations between years. Recently, the installation cost has been increasing due to a) installations in non-traditional locations (e.g., Bremerton) driven by the Coast-wide bid process which causes extensive travel costs, b) Delays in delivery of Ship Installation Drawings, and c) scope changes during the modernization window. Further apparent cost increases are due to aligning modernization-related work such as Combat System documentation updates within the modernization budget.

[UQ5IN FMP SHIP UNITS] The cost for each kit is listed above. SSDS kit funding is provided to various contractors and field activities. The SSDS equipment procurement is based on competitive contracts. Production lead time for kits ranges from 12 months (for equipment COTS upgrade kits/field changes) up to 24 months for system COTS conversion kits for ships and shore sites.

[UQ6IN NON-FMP SHORE SITES] The non-FMP kits are required for SSDS/CS shore sites: The SSDS MK 2 System/Software Combat System Engineering Agent; SCSC Wallops Island. Each of these facilities require equipment to support the in-service ship configurations, and to support the new configuration baselines in development. The SSDS OPN UQ005 supports field changes to the in-service baselines, and the establishment of new baseline configurations at the shore sites. The cost for the kits varies significantly depending on the site, its existing configuration, and mission of the site.

[UQ5IN FMP SHIP UNITS] The cost for each kit is listed above. SSDS kit funding is provided to various contractors and field activities. The SSDS equipment procurement is based on competitive contracts. Production lead time for kits ranges from 12 months (for equipment COTS upgrade kits/field changes) up to 24 months for system COTS conversion kits for ships and shore sites.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 3 / UQ005B - SSDS COTS CONVERSION KITS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**
Models of Systems Affected: [No Model Specified]	**Modification Type:** TBD	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: UQ005B - SSDS COTS CONVERSION KITS												
B Kits												
Recurring												
1.1.1) UQ5IN FMP SHIP UNITS - NonOrganic	18 / 142.925	2 / 26.278	2 / 46.702	2 / 37.514	- / -	2 / 37.514	1 / 22.833	2 / 44.361	1 / 27.016	1 / 11.187	- / -	29 / 358.816
1.1.2) UQ6IN NON FMP SHORE SITES - NonOrganic	20 / 123.735	1 / 9.558	1 / 11.207	2 / 27.525	- / -	2 / 27.525	1 / 14.038	1 / 14.319	1 / 14.605	2 / 29.794	- / -	29 / 244.781
Subtotal: Recurring	*- / 266.660*	*- / 35.836*	*- / 57.909*	*- / 65.039*	*- / -*	*- / 65.039*	*- / 36.871*	*- / 58.680*	*- / 41.621*	*- / 40.981*	*- / 0.000*	*- / 603.597*
Subtotal: UQ005B - SSDS COTS CONVERSION KITS	*38 / 266.660*	*3 / 35.836*	*3 / 57.909*	*4 / 65.039*	*- / -*	*4 / 65.039*	*2 / 36.871*	*3 / 58.680*	*2 / 41.621*	*3 / 40.981*	*- / -*	*58 / 603.597*
Subtotal: Procurement, All Modification Items	*- / 266.660*	*- / 35.836*	*- / 57.909*	*- / 65.039*	*- / -*	*- / 65.039*	*- / 36.871*	*- / 58.680*	*- / 41.621*	*- / 40.981*	*- / 0.000*	*- / 603.597*
Installation												
Modification Item 1 of 1: UQ005B - SSDS COTS CONVERSION KITS	- / 160.429	- / 18.001	- / 13.283	- / 18.063	- / 0.000	- / 18.063	- / 33.462	- / 22.455	- / 33.125	- / 32.101	Continuing	Continuing
Subtotal: Installation	*- / 160.429*	*- / 18.001*	*- / 13.283*	*- / 18.063*	*- / -*	*- / 18.063*	*- / 33.462*	*- / 22.455*	*- / 33.125*	*- / 32.101*	*Continuing*	*Continuing*
Total												
Total Cost (Procurement + Support + Installation)	**427.089**	**53.837**	**71.192**	**83.102**	**0.000**	**83.102**	**70.333**	**81.135**	**74.746**	**73.082**	**12.495**	**947.011**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 3 / UQ005B - SSDS COTS CONVERSION KITS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 1 of 1: UQ005B - SSDS COTS CONVERSION KITS

Manufacturer Information

Manufacturer Name: TBD (Competitive Procurement)	Manufacturer Location: TBD (Competitive Procurement)
Administrative Leadtime *(in Months)*: 3	Production Leadtime *(in Months)*: 15

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates	Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028	
Delivery Dates	Jan 2024	Apr 2025	Apr 2026	Apr 2027	Apr 2028	Apr 2029	

Installation Information

Method of Implementation: [none specified]:: Installation Name: UQ5IN FMP SHIP UNITS - INSTALLATION

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 143.462	1 / 11.870	0 / 0.759	0 / 4.107	0 / 0.000	0 / 4.107	- / -	- / -	- / -	- / -	0 / 0.000	18 / 160.198
FY 2023	- / -	0 / 1.538	1 / 7.536	1 / 4.124	0 / 0.000	1 / 4.124	0 / 2.967	- / -	- / -	- / -	0 / 0.000	2 / 16.165
FY 2024	- / -	0 / 1.240	0 / 1.022	0 / 4.342	0 / 0.000	0 / 4.342	1 / 17.346	1 / 8.335	0 / 3.638	- / -	0 / 0.000	2 / 35.923
FY 2025	- / -	- / -	0 / 0.841	0 / 1.960	0 / 0.000	0 / 1.960	1 / 8.253	0 / 8.563	0 / 3.085	- / -	0 / 0.000	1 / 22.702
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	0 / 1.141	0 / 0.790	1 / 4.377	0 / 3.147	0 / 0.000	1 / 9.455
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.387	0 / 0.582	1 / 18.144	1 / 19.047	0 / 0.000	2 / 38.160
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 1.164	0 / 0.800	1 / 4.464	0 / 0.000	1 / 6.428
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 1.622	1 / 12.500	1 / 14.122
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	17 / 143.462	1 / 14.648	1 / 10.158	1 / 14.533	0 / 0.000	1 / 14.533	2 / 30.094	1 / 19.434	2 / 30.044	2 / 28.280	1 / 12.500	28 / 303.153

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	16	-	-	1	-	-	-	2	-	-	1	-	1	-	1	-	1	-	-	-	-	1	1	-	-	1	-	-	2	1	29
Out	15	-	-	1	-	-	-	-	-	-	1	-	1	1	-	-	1	1	-	-	1	1	-	-	-	1	-	1	-	4	29

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5231 / Ship Missile Support Equipment	**Modification Number / Title:** 3 / UQ005B - SSDS COTS CONVERSION KITS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 1 of 1: UQ005B - SSDS COTS CONVERSION KITS

Installation Information

Method of Implementation: Method:: Installation Name: UQ6IN NON FMP SHORE SITES - INSTALLATION

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 16.967	3 / 1.213	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	20 / 18.180
FY 2023	- / -	0 / 2.140	1 / 0.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 2.570
FY 2024	- / -	- / -	0 / 2.695	1 / 0.399	0 / 0.000	1 / 0.399	- / -	- / -	- / -	- / -	0 / 0.000	1 / 3.094
FY 2025	- / -	- / -	- / -	0 / 3.131	0 / 0.000	0 / 3.131	2 / 0.813	- / -	- / -	- / -	0 / 0.000	2 / 3.944
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	0 / 2.555	1 / 0.415	- / -	- / -	0 / 0.000	1 / 2.970
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 2.606	1 / 0.423	- / -	0 / 0.000	1 / 3.029
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 2.658	1 / 0.432	Continuing	Continuing
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 3.389	2 / 0.995	2 / 4.384
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	17 / 16.967	3 / 3.353	1 / 3.125	1 / 3.530	0 / 0.000	1 / 3.530	2 / 3.368	1 / 3.021	1 / 3.081	1 / 3.821	Continuing	Continuing

Installation Schedule

		FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029					
	PYS	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	-	2	1	-	-	1	-	-	-	1	-	-	1	1	-	-	1	-	-	-	1	-	-	-	1	-	-	-	Cont.	Cont.
Out	17	-	1	1	1	-	-	1	-	-	-	1	-	-	1	1	-	-	1	-	-	-	1	-	-	-	1	-	-	Cont.	Cont.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment	**P-1 Line Item Number / Title:** 5253 / Tomahawk Support Equipment

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 289		

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,063.297	92.270	92.432	98.921	0.000	98.921	101.149	97.349	96.151	98.106	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,063.297	92.270	92.432	98.921	0.000	98.921	101.149	97.349	96.151	98.106	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,063.297**	**92.270**	**92.432**	**98.921**	**0.000**	**98.921**	**101.149**	**97.349**	**96.151**	**98.106**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Theater Mission Planning Center (TMPC) and Tactical Tomahawk Weapons Control System (TTWCS) are components of the Tomahawk Weapons System (TWS) required to plan and execute Tomahawk strikes

The Theater Mission Planning Center (TMPC) consists of Commercial and Government Off-The-Shelf (COTS/GOTS) software and COTS hardware. TMPC is the mission planning segment of the Tomahawk Weapon System (TWS) that provides subsystems for the precision targeting, weaponeering, route planning, mission distribution, and strike management of Tomahawk cruise missile missions from sites located ashore and afloat. TMPC optimizes all aspects of the Tomahawk missile mission to successfully engage a target. TMPC has evolved into 4 scalable configurations deployed at 180 sites: Cruise Missile Support Activities (CMSAs) (3), Tomahawk Strike Mission Planning Cells (TSMPCs) (3), Carrier Strike Groups (CSGs) (19 Total: 12 Afloat / 7 Shore) and Firing Units (FRUs) (139 - 85 Surface / 54 Subsurface). Additionally, TMPC is installed in labs and training classrooms (Total: 16) that contain various combinations of the four configurations.

Continuous TMPC software updates decrease mission planning time and increase the quality and accuracy of each mission while reducing complexity. TMPC provides mission planning at the theater and operational levels and is designed for high rate mission planning production responsive to national strategic, operational, and tactical requirements. TMPC produces and distributes missions; provides command information services; provides strike planning, execution, coordination, control and reporting, and provides Maritime Component Commanders (MCC) the capability to plan or modify conventional TWS missions. TMPC supports major joint combat operations and Overseas Contingency Operations. TMPC was previously referred to as Tomahawk Command and Control System (TC2S).

Funds provide for systems engineering, testing, Independent Verification & Validation (IV&V), security accreditation, installation, site acceptance testing, user familiarization of products, and hardware. Also, this funding line item provides for COTS refreshment, engineering changes, software upgrades, cyber-security modernization, and associated Nuclear Powered General Purpose Attack Submarine/Guided Missile Destroyer/Guided Missile Cruiser/Nuclear Aircraft Carrier (SSNs/DDGs/CGs/CVN) logistics and infrastructure to maintain compatibility and interoperability with existing and future TMPC and TTWCS system configurations.

Tactical Tomahawk Weapon Control System (TTWCS) is a Software Acquisition Pathway Program, initiated in 1Q FY 2024. Continuous TTWCS software and hardware updates increase situational awareness, reduce operator workload in an increasingly complex maritime environment and reduce complexity at the user interface. TTWCS v5.6X software series was released in FY 2021 and continues to be delivered throughout the following years to promulgate it across the Fleet FRUs (139 -85 Surface/54 Subsurface), labs, and initial training classrooms. TTWCS v7.X software series was developed in FY 2024 and in FY 2025 the software will complete iterations of segment test. In addition, funds provided continue to support TTWCS viability and ensure compliance with cybersecurity mandates, address hardware obsolescence through periodic COTS hardware refresh and periodically refresh of GOTS software to migrate away from obsolete or unsupportable software.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 3: Ship Missile Systems Equipment	**P-1 Line Item Number / Title:** 5253 / Tomahawk Support Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A / **Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: 289	

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-5	1 / 525300, TOMAHAWK Support Equipment				- / 1,063.297	- / 92.270	- / 92.432	- / 98.921	- / 0.000	- / 98.921
P-40	**Total Gross/Weapon System Cost**				**- / 1,063.297**	**- / 92.270**	**- / 92.432**	**- / 98.921**	**- / 0.000**	**- / 98.921**

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

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

Justification:
This line funds TMPC and TTWCS system modernization upgrades.

FY 2025 Tomahawk Weapons System funds provide for integration, modernization and interoperability efforts necessary to keep pace with changes and threats, retain capability and exploit capabilities of internal products (TWS All-Up-Round missile and TTWCS) and external products (Modernized Integrated Data Base (MIDB), National Geospatial Intelligence Agency (NGA) products, Distributed Common Ground Systems (DCGS) Integrated Backbone (DIB) compliance, Future Imagery Architecture (FIA) imagery formats and Intelligence Surveillance & Reconnaissance (ISR) interfaces, Network Centric Enterprise Services (NCES), and Global Information Grid. These efforts ensure the continued effectiveness and relevance of the Tomahawk Weapons System.

TMPC: FY 2025 funding is required to continue the upgrade of unsupportable and obsolete TMPC hardware and software, ensure compliance with DoD cyber-security mandates, complete fielding of TMPC 6.0 onboard CVNs, Command Ships, Firing Units (DDGs/CGs), and shore activities and continue fielding TMPC 7.X. FY 2025 also funds upgrades necessary to improve cybersecurity posture across all TMPC sites to a minimum required level of robustness, resiliency, and cyber survivability in light of the constantly evolving technology and threat space to preserve national first-strike Tomahawk system of systems capability. These upgrades are required for development of TMPC 8.X, fielding TMPC 7.X, and support the employment and capability of the Joint Multiple Effects Munitions and Maritime Strike Tomahawk programs. These upgrades enable fielding of advanced capabilities of the Tomahawk Modernization program with required program protection safeguards to protect Critical Program Information. The increase in funding from FY 2024 to FY 2025 provides funding to incorporate Digital Imagery Exploitation Engine (DIEE) into TMPC and refactoring of antiquated code in the Tomahawk Planning System (TPS).

TTWCS: FY 2025 funding is required to continue addressing specific security and supportability builds for v5.6X series software, the deployment of v5.6X series software and procurement/assembly/deployment of (V)6 hardware supporting Tomahawk missile capabilities, and the commencement of v7.X series system engineering activities. FY 2025 funding supports the continued fielding of updated hardware and v5.6X series software and derivatives to Firing Units and shore sites, and for integrated logistics support required for the end-items. Other FY 2025 activities include HW procurement, HW build-up for partial software virtualization, installation advance planning, and long-term planning for future software versions, and technical data package. TTWCS relies on COTS hardware and software tools that require a stable and established upgrade path to meet cyber security mandates, address supply chain risk management, ensure continued vendor supportability, quality assurance / lot specifications, and ensure interoperability between tightly coupled COTS software applications, operating systems, and hardware processing nodes. Product improvement resources are required to comply with commercial hardware and software supportability mandates, obsolescence, and information assurance requirements to maintain pace with modern computing architectures and evolving cyber threats.

Exhibit P-5, Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5253 / Tomahawk Support Equipment	**Item Number / Title [DODIC]:** 1 / 525300, TOMAHAWK Support Equipment
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,063.297	92.270	92.432	98.921	0.000	98.921
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,063.297	92.270	92.432	98.921	0.000	98.921
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,063.297**	**92.270**	**92.432**	**98.921**	**0.000**	**98.921**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)						
Initial Spares *($ in Millions)*	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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 - TTWCS Cost																		
Recurring Cost																		
1.1.1) Tactical Tomahawk Weapon Control System (TTWCS) Hardware [1]	-	-	37.075	-	-	4.884	-	-	4.735	-	-	4.904	-	-	-	-	-	4.904
Subtotal: Recurring Cost	-	-	*37.075*	-	-	*4.884*	-	-	*4.735*	-	-	*4.904*	-	-	-	-	-	*4.904*
Subtotal: Hardware - TTWCS Cost	**-**	**-**	***37.075***	**-**	**-**	***4.884***	**-**	**-**	***4.735***	**-**	**-**	***4.904***	**-**	**-**	**-**	**-**	**-**	***4.904***
Hardware - HARDWARE RECURRING SUPPORT - TTWCS Cost																		
Recurring Cost																		
2.1.1) TTWCS Product Improvement [2]	-	-	235.886	-	-	18.182	-	-	17.041	-	-	17.095	-	-	-	-	-	17.095
Subtotal: Recurring Cost	-	-	*235.886*	-	-	*18.182*	-	-	*17.041*	-	-	*17.095*	-	-	-	-	-	*17.095*
Subtotal: Hardware - HARDWARE RECURRING SUPPORT - TTWCS Cost	**-**	**-**	***235.886***	**-**	**-**	***18.182***	**-**	**-**	***17.041***	**-**	**-**	***17.095***	**-**	**-**	**-**	**-**	**-**	***17.095***
Hardware - TMPC Cost																		
Recurring Cost																		
3.1.1) Tomahawk Mission Planning Center (TMPC) Hardware [3]	-	-	37.609	-	-	3.285	-	-	4.121	-	-	3.682	-	-	-	-	-	3.682
Subtotal: Recurring Cost	-	-	*37.609*	-	-	*3.285*	-	-	*4.121*	-	-	*3.682*	-	-	-	-	-	*3.682*

Exhibit P-5, Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	**P-1 Line Item Number / Title:** 5253 / Tomahawk Support Equipment	**Item Number / Title [DODIC]:** 1 / 525300, TOMAHAWK Support Equipment
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)
Subtotal: Hardware - TMPC Cost	**-**	**-**	***37.609***	**-**	**-**	***3.285***	**-**	**-**	***4.121***	**-**	**-**	***3.682***	**-**	**-**	**-**	**-**	**-**	***3.682***
Software - PRODUCT IMPROVEMENTS - TMPC Cost																		
Recurring Cost																		
4.1.1) TMPC Product Improvements [4]	-	-	257.690	-	-	26.870	-	-	26.340	-	-	31.913	-	-	-	-	-	31.913
Subtotal: Recurring Cost	-	-	*257.690*	-	-	*26.870*	-	-	*26.340*	-	-	*31.913*	-	-	-	-	-	*31.913*
Subtotal: Software - PRODUCT IMPROVEMENTS - TMPC Cost	**-**	**-**	***257.690***	**-**	**-**	***26.870***	**-**	**-**	***26.340***	**-**	**-**	***31.913***	**-**	**-**	**-**	**-**	**-**	***31.913***
Support - Support - TTWCS Cost																		
5.1) TTWCS Production Engineering [5]	-	-	29.333	-	-	1.576	-	-	1.604	-	-	1.868	-	-	-	-	-	1.868
5.2) TTWCS Integrated Logistic Support [6]	-	-	165.784	-	-	11.423	-	-	11.938	-	-	12.534	-	-	-	-	-	12.534
Subtotal: Support - Support - TTWCS Cost	**-**	**-**	***195.117***	**-**	**-**	***12.999***	**-**	**-**	***13.542***	**-**	**-**	***14.402***	**-**	**-**	**-**	**-**	**-**	***14.402***
Support - TMPC Cost																		
6.1) TMPC Production Engineering [7]	-	-	61.107	-	-	5.169	-	-	5.323	-	-	5.324	-	-	-	-	-	5.324
6.2) TMPC Production Support [8]	-	-	57.124	-	-	4.904	-	-	5.043	-	-	5.044	-	-	-	-	-	5.044
6.3) TMPC Integrated Logistic Support [9]	-	-	157.661	-	-	15.977	-	-	16.287	-	-	16.557	-	-	-	-	-	16.557
Subtotal: Support - TMPC Cost	**-**	**-**	***275.892***	**-**	**-**	***26.050***	**-**	**-**	***26.653***	**-**	**-**	***26.925***	**-**	**-**	**-**	**-**	**-**	***26.925***
Support - ILS INSTALLATIONS Cost																		
7.1) FMP Installations	-	-	15.139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - ILS INSTALLATIONS Cost	**-**	**-**	***15.139***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Support - Miscellaneous Cost																		
8.1) TTWCS Other Cost	-	-	8.889	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Miscellaneous Cost	**-**	**-**	***8.889***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Gross/Weapon System Cost	**-**	**-**	**1,063.297**	**-**	**-**	**92.270**	**-**	**-**	**92.432**	**-**	**-**	**98.921**	**-**	**-**	**0.000**	**-**	**-**	**98.921**

Exhibit P-5, Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 3	P-1 Line Item Number / Title: 5253 / Tomahawk Support Equipment	Item Number / Title [DODIC]: 1 / 525300, TOMAHAWK Support Equipment
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Footnotes:

(1) TTWCS Hardware: FY 2025 funds are required to address hardware obsolescence through periodic COTS hardware refresh and continuously assess supply chain risk and alternative hardware sourcing. Continued funding is required across the FYDP to support planned procurement of TTWCS components for retrofit onto Fleet surface platforms for periodic updates. Funding increases over the rate of inflation are due to a necessary Security and Supportability Builds (SSB), in order to address emergent threats.

(2) TTWCS Product Improvement: FY 2025 funding supports the continuation of TTWCS v7.X lab efforts for the integrated segment test necessary to support the on-time Fleet Release of JMEWS (Joint Multiple Effects Warhead System) capability in FY 2027. TTWCS relies on COTS hardware, operating systems, and software that require a stable and established upgrade path to meet cyber security mandates, ensure continued vendor supportability, conduct supply chain risk management assessments, and ensure interoperability between tightly coupled COTS applications and hardware processing nodes.

(3) TMPC Hardware: FY 2025 funding decreased due to the completion of the procurement of software and hardware for Windows 11 implementation. The remaining funding is provided for the continuation of the procurement of hardware for TMPC 7.X modernization upgrades and installations at Cruise Missile Support Activities (CMSALANT and CMSAPAC), Tomahawk Strike Mission Planning Cells (C5F and C6F), CVNs, and Firing Units. TMPC 7.X are mission critical to support upgraded navigation, communications capabilities, and systems essential to the continued effectiveness and interoperability of the TWS.

(4) TMPC Product Improvement: FY 2025 funding increase supports upgrading the computer operating system (Win 11), incorporating Digital Imagery Exploitation Engine (DIEE) into TMPC, implementing DOD compliant cross domain solutions and removal of obsolete program language to modernize the Tomahawk Planning System. FY 2025 funding provides ongoing software engineering efforts associated with the delivery of system modernization and improvements by the prime developers to continue the upgrade of unsupportable and obsolete TMPC hardware and software and to ensure compliance with DoD cyber security mandates. Funding supports modernization upgrades necessary to improve cybersecurity posture across all TMPC sites to a minimum required level of robustness, resiliency, and cyber survivability in light of the constantly evolving technology and threat space to preserve national first-strike Tomahawk system of systems capability. These upgrades are required for development of 8.X, fielding TMPC 7.X, and support the employment and capability of JMEWS and the Maritime Strike Tomahawk ACAT I subprogram and enables the fielding of advanced capabilities of Tomahawk Modernization program with required program protection safeguards to protect Critical Program Information. Funding provides for completion of the Maritime Strike Tomahawk (MST) Product Acceptance Test (PAT) to support software modernization of infrastructure changes for TMPC 7.X to support the Maritime Strike Tomahawk Missile in its operational environment. Funding provides software system upgrades for the submarine community to address system interfaces and upgrades to support the TMPC system usability improvements required for fleet operators to execute large and complex TLAM operations as required by US Fleet Forces Command (USFFC) and link existing targeting sources to the Maritime Strike Tomahawk Missile.

(5) TTWCS Production Engineering Support: FY 2025 funding is required for kit production in support of Surface/Submarine installations onboard firing units. The increased funding levels in FY 2025 are a product of inflation and support the required documentation for hardware qualification, reports of testing/integration of ship sets, hardware build-up and tech data packages, and advance planning efforts. Additional engineering support is required for supply chain risk management, quality assurance testing of component lots, interoperability between tightly coupled COTS applications and hardware processors, and continued vendor supportability scans.

(6) TTWCS Integrated Logistics Support: FY 2025 funding required for Surface/Submarine installations onboard firing units. Variations in ship availability schedules are the cause of funding changes from year to year.

(7) TMPC Production Engineering: Provides systems engineering support for system design and definition of requirements necessary to evaluate all functional aspects of the TMPC subsystems and workflows that directly impact strike & execution and mission planning products. It includes reviewing TWS and external interfaces for impacts resulting from design upgrades/changes within TWS and by external organizations, Independent Verification & Validation (IV&V), and security accreditation activities.

(8) TMPC Production Support: Funds activities that directly support system upgrades requirements such as user events, requirements validation, systems engineering technical reviews, software formal qualification testing, and delta training documentation.

(9) TMPC Integrated Logistics Support: FY 2025 funds provide for employment and capability of the Maritime Strike Tomahawk an ACAT-1 subprogram, and continues the fielding of advanced capabilities of Tomahawk Modernization program with required program protection safeguards to protect Critical Program Information. This line continues TMPC 6.0 Firing Units Guided Missile Destroyer, Guided Missile Cruiser, and Nuclear Attack Submarine DDGs/CGs/SSNs). TMPC 7.X supports key mission planning timeline improvements, cybersecurity hardening, and system recovery to ensure the continued effectiveness and interoperability of the TWS in the face of a sophisticated cyberattack. FY 2025 also provides funding to continue TMPC 7.X installations at the Cruise Missile Support Activities & Tomahawk Strike Mission Planning Cells (TSMPCs) (3 - C5F, C6F, and C7F), Carrier Strike Group suites both afloat on CVNs and key control nodes ashore as well as training and labs.

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Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 4: FBM Support Equipment	**P-1 Line Item Number / Title:** 5358 / Strategic Missile Systems Equip

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603561N, 0603595N, 0603570N, 0901211N, 0805376N, 0101228N

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	2,109.666	279.430	325.318	325.236	0.000	325.236	435.821	324.966	454.086	459.740	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	2,109.666	279.430	325.318	325.236	0.000	325.236	435.821	324.966	454.086	459.740	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**2,109.666**	**279.430**	**325.318**	**325.236**	**0.000**	**325.236**	**435.821**	**324.966**	**454.086**	**459.740**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Thousands)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This budget provides for the procurement of Strategic Weapons System (SWS) equipment for deployed ballistic missile submarines (SSBNs) and shore support sites to support the TRIDENT II (D5) program. Included are shipboard subsystem equipment modernization and technical refresh efforts associated with the TRIDENT II (D5) life extension program. TRIDENT II SSBN hull life has been extended, therefore extending system life to FY 2042.

OTHER MATERIAL SUPPORT
A broad range of other material support equipment must be procured for deployed SSBNs, shore installations and contractor facilities. Included within this category are general and special purpose test equipment, launcher expendables, navigation principal items, test instrumentation in support of missile flight tests, and missile checkout equipment.

The Naval Industrial Reserve Ordnance Plant (NIROP) Capital Maintenance budget provides for major rehabilitation and repair work for major facility and infrastructure and systems for the Navy owned Pittsfield, MA facilities supporting the SWS. The NIROP infrastructure and systems are housed primarily in three main buildings and include but are not limited to power, steam, and cooling systems & infrastructure, life-safety and security systems, and other critical infrastructure such as roofs, elevators, restrooms, and parking lots. Work is performed on each major system on a rolling maintenance program that is based on service life. Continued maintenance of these critical facility systems is essential for support of the on-going Fleet Ballistic Missile (FBM) programs at the Pittsfield, MA NIROP.

ALTERATIONS
Alterations to non-flying tactical hardware are continuing requirements for the SWS. Requirements primarily relate to shipboard investments in Commercial-off-the-Shelf/Non-Developmental Items (COTS/NDI) SWS subsystem equipment, including periodic refresh cycles, to ensure continued reliable performance of the weapon system for its extended service life to match the OHIO Class life extension. Strategic Programs Alterations (SPALTs) also entail
the application of available technology to eliminate personnel safety hazards, correct design deficiencies, maintain system effectiveness by resolving equipment operability problems, achieve logistic economies, and provide for shipboard subsystem D5 life extension modernization efforts.

FY 2025 hardware alteration efforts include funds to (1) procure alterations to the SWS launcher and fire control subsystems; (2) to procure inertial, non-inertial, and Electrostatic Gyro Navigator (ESGN) navigation subsystem equipment on deployed SSBNs and installed at supporting shore facilities; (3) to test instrumentation used on SSBNs, support ships, and at the Eastern Test Range, the TRIDENT Refit

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 4: FBM Support Equipment	P-1 Line Item Number / Title: 5358 / Strategic Missile Systems Equip	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603561N, 0603595N, 0603570N, 0901211N, 0805376N, 0101228N
Line Item MDAP/MAIS Code: N/A		

Facility (TRF) - Bangor, and TRF - Kings Bay; and (4) to missile handling equipment, missile test and readiness equipment, and surface support equipment. Installation of approved SPALTs are performed on a turnkey basis in conjunction with the procurement of equipment.

The majority of the Alterations funding supports the Shipboard System Integration (SSI) program which utilizes a COTS based strategy that integrates common electronics (from Fire Control, Launcher, and Navigation) into the fire control sub-system as well as refreshing inertial systems in order to ensure the TRIDENT II (D5) weapon system can be sustained to FY 2042 in support of OHIO Class SSBNs. Below is a description of each current SSI Increment (Inc):

SSI Inc 8: Inc 8 provides replacement of the 30 year old ESGN which needs a refresh of inertial technology components, provides replacement of the Electronic Equipment Consoles (EEC), and updates Navigation Subsystem software to accommodate ESGN replacement navigator. Also, provides SWS subsystem SPALTs for FC and TTF NAV Lab trainers, and and Shipboard Data System(SDS)/Data Recording System(DRS) SPALT changes which are driven by data requirement changes. The SHIPALTs retain NAV Center bedplate, cabling, chilled water/ventilation, and retain electrical power.

SSI Inc 11: Inc 11 develops the Launcher Initiation System (LIS) for backfit onto OHIO Class D5LE. This provides a technical refresh of 30+ year old technology to ensure long term system reliability. Ship/SWSS SHIPALT is to replace electrical cable with hybrid fiber-optic/electrical cable.

SSI Inc 13: Inc 13 provides Shipboard Systems Refresh for Fire Control System (FCS), Navigation (NAV), and Missile Test and Readiness Equipment (MTRE) to integrate with the subsystems.

SSI Inc 15: Prerequisite is SSI Inc 13. Inc 15 provides pre-configuration and post-configuration support of Inc 8 and Inc 11. Inc 15 provides refresh alterations for the fire control subsystem.

SHIPBOARD SYSTEMS MODERNIZATION PORTFOLIO (SSMP) Program
SSP is undertaking a strategic modernization of the shipboard architecture to harness new technologies and leverage modern engineering methodologies. This will ensure credible, reliable and adaptable capabilities are provided to the warfighter and nation at the speed of relevance.

SSMP is the overarching program management framework for the integration of all acquisition activity related to the SWS shipboard systems. It includes re-architecture work to achieve an optimized shipboard architecture across SWS subsystems as well as the integration of all other shipboard systems development and sustainment activities.

SSMP is defined in three major programmatic elements:

A. The SSI Program, as discussed above.
B. Shipboard Architecture Modernization Initiative (SAMI)
C. Continuous Capability Insertion and Sustainment (C2IS)

A. The SSI Increment program consists of multiple incremental alterations to the shipboard systems of the SWS that primarily addressed obsolescence and sustainment. The SSI Increments program employed a strategy of targeted technology refreshes and functional consolidations in conjunction with life of type buys to manage obsolescence within the shipboard systems. While the increments were successful in achieving limited modernization of portions of the system design they did not principally address a holistic modernization of the underlying architecture of the collection of shipboard systems (Fire Control, Navigation, Shipboard Data System, and Launcher) that was established with D5 in the 1980s. The SSI Increments program began with SSI Increment 1 which started in the early 2000s and will conclude with the deployment of Increment 15 in the late 2020s.

B. SAMI builds on the Increment 15 system baseline and is designed to achieve an architectural re-design of the shipboard systems that leverages modern technologies and approaches that will eliminate architectural constraints that hinder adaptability in the current SWS. Whereas the SSI Increment program focused on minimizing lifecycle costs around a stable system capability and performance baseline, SAMI focuses on maximizing scalability and adaptability in the architecture to enable rapid response to a dynamically changing threat environment while still working to minimize lifecycle costs. This shift in approach is needed to counter the rapidly changing threat environment that results from two near-peer nuclear adversaries and resultant dynamic needs for SLBM capability.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 4: FBM Support Equipment	P-1 Line Item Number / Title: 5358 / Strategic Missile Systems Equip	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603561N, 0603595N, 0603570N, 0901211N, 0805376N, 0101228N
Line Item MDAP/MAIS Code: N/A		

SAMI is structured around three lines of modernization which will establish a shipboard common infrastructure. Once the shipboard common infrastructure is in place, legacy software can be refactored to make use of standard functions and features and new capabilities can be more easily and rapidly introduced. The three lines of modernization are:

1. Implementation of a modern General Purpose Computing (GPC) infrastructure. This is critical to provide a scalable computational element that leverages modern technologies to achieve critical improvements in computational capability and cyber resiliency.

2. Implementation of a modern Deterministic Computing Element (DCE) infrastructure. This is critical to provide a modernized real-time embedded computing infrastructure based on the latest technologies and industry standards for high availability, high criticality systems.

3. Implementation of a modern data architecture and shipboard-flight interface infrastructure. This is critical to modernize communication protocols, software design, data structures, and interfaces to improve cyber security, supportability, and maintainability of the system. It is also an essential enabler to support emerging technologies under development for the flight and re-entry systems (e.g. D5LE2 and Mk7/W93).

Unlike the SSI Increment program, SAMI will be executed using an agile methodology and digital engineering methods. Smaller alterations to the existing shipboard systems will be executed over time rather than establishing several large incremental procurements. This approach is important for two reasons. First it will allow SSP to respond rapidly to changing National priorities while still making strategic investments in the re-architecture. Second, by overlapping and sequencing the roll off from SSI Increments 8 and 15 with the ramp up of SAMI effort, SSP is able to leverage the established industrial base which is a significant factor in managing risk, ensuring expertise and unique knowledge pertaining to the SWS design is retained and applied to the re-architecture efforts.

SAMI is strategically phased to also support the critical D5LE2 experimental test flight program in the early 2030s and planned COLUMBIA class refreshes.

C. The C2IS element of the SSMP defines the approach to both sustaining the shipboard elements of the SWS and ensuring adaptability and timely insertion of capabilities to meet the dynamic threat environment and needs of the Nation. C2IS is fully integrated with SAMI efforts to enable an appropriate balance of acquisition decisions between re-architecture, obsolescence management, and capability insertions. As SAMI is incrementally realized, the new architecture will enable a faster cadence that is more adaptable and affordable to changes. This will allow SSP to rapidly address both obsolescence and capability insertion, including improvements in SWS performance and the integration of support for advanced missile/re-entry technologies.

Continuous Sustainment: This aspect addresses the need to continuously sustain the shipboard systems. This includes planning for technology refreshes and obsolescence management during all phases of SSMP, leveraging the modernized architecture established by the SAMI. Specifically, the decoupling of hardware and software and introduction of virtualization technologies in the SAMI will serve to enable rapid insertion of technology refreshes and simplify obsolescence management of the shipboard systems. The objective is for the program to be capable of hardware insertion every two years and annualized software releases.

Capability Insertion: This aspect addresses the need to provide capability to the Warfighter. Before, during, and after the SAMI efforts are complete Shipboard Subsystems must be able to adapt and introduce capability to keep pace with the changing threat environments. To achieve this goal, a balance will need to be maintained between shipboard architectural changes and capability insertion. Once the Shipboard Common Infrastructure is in place the ability to rapidly insert capability will be improved and is essential for the SWS to adapt and respond to the ever-changing threats of the future.

TRAINING
This category provides for procurement of, and alterations to, both tactical and non-tactical equipment required at submarine training facilities to train personnel in the operation and maintenance of launcher and handling, fire control, navigation, missile checkout, and test instrumentation subsystems. Each training facility consists of an integrated family of system and unit laboratories that interface with a training simulation system to provide complete and realistic training for replacement and off-crew personnel, both officer and enlisted, as required for manning of SSBNs and shore facilities. Funding is budgeted to procure training-unique equipment required as the result of alterations to SWS tactical equipment, including those associated with D5 life extension.

COLUMBIA CLASS

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Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 4: FBM Support Equipment	**P-1 Line Item Number / Title:** 5358 / Strategic Missile Systems Equip	
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0603561N, 0603595N, 0603570N, 0901211N, 0805376N, 0101228N
Line Item MDAP/MAIS Code: N/A		

Funding in this category is in support of the COLUMBIA Class SSBN for the procurement of trainer equipment and execution of Trident Planned Equipment Replacement Program (TRIPER) efforts. Funding is required to develop, procure, install and test the Strategic Weapon Support Systems (SWSS) trainer equipment suite within the COLUMBIA Class Kings Bay (KB) TRIDENT Training Facility (TTF) 2-tube configuration. The SWSS trainer equipment suite simulates the tactical configuration required to conduct COLUMBIA crew training and certification beginning in January 2026. Procurement of select SWSS components, such as training missile tubes and associated on and off-tube components, as well as engineering labor required to integrate the COLUMBIA design into the trainer configuration, commenced in FY 2022 to ensure initial equipment is installed before exterior building construction is complete (FY 2024) and all remaining hardware can be delivered in FY 2024 for installation, checkout and testing. Similar procurements for the COLUMBIA Class Bangor TTF commence in FY 2028. Per OSD(A&S) and SECNAV direction, COLUMBIA Program costs reflect requirements per NAVSEA 05C's 2022 program cost estimate. In support of the August 2020 Lead Ship Authorization In-Process Review, funding was increased primarily driven by properly priced TRIPER spares and corrected re-phasing of training requirements added to the program. The 2022 program cost estimate further refined this to ensure funding profile phasing was as needed.

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ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A
Other Related Program Elements: 0603561N, 0603595N, 0603570N, 0901211N, 0805376N, 0101228N	
Line Item MDAP/MAIS Code: N/A	

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	Strategic Missile Systems Equip	P-5a, P-21			- / 2,109.666	- / 279.430	- / 325.318	- / 325.236	- / -	- / 325.236
P-40	**Total Gross/Weapon System Cost**				**- / 2,109.666**	**- / 279.430**	**- / 325.318**	**- / 325.236**	**- / 0.000**	**- / 325.236**

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:

OTHER MATERIAL SUPPORT

A broad range of other material support equipment must be procured for deployed SSBNs, shore installations and contractor facilities. Included within this category are general and special purpose test equipment, launcher expendables, navigation principal items, test instrumentation in support of missile flight tests, and missile checkout equipment. Amounts included within this P1 line for this category are subdivided as follows:

Launcher and Handling Equipment:

Cost Codes 1.2 and 1.3 provide for Gas Generator (GG) Production and GG Case Hardware. GGs are utilized to eject Trident II (D5) missiles from the missile tubes during a launch.

GG and GG case hardware are continuing to be procured under the revised acquisition strategy where 20 gas generators are procured every other year (vice 10 per year) which reduces lot testing costs associated with GGs while still allowing for continuous production due to the lead time of production. In the alternating years, gas generator case hardware is procured, in the quantity necessary to replace cases for expended/fired GGs. These quantities vary based on testing events.

Cost Code 1.2 - GG Production funding in FY 2025 increases as no GG were procured in FY 2024, an increase to 20 in FY 2025 in accordance with the revised acquisition strategy of alternate year procurements.

Cost Code 1.3 funding provides the procurement and qualification of GG Case Hardware required to replace cases for expended/fired GGs. Funding in this category fluctuates year to year due to flight schedules. Funding decreases from FY 2024 to FY 2025 since there were no surface launch test facility events necessitating replacement of case hardware.

Fire Control Equipment:

Cost Code 2.1 funding provides for procurement of continued capital maintenance projects at the Naval Industrial Reserve Ordnance Plant (NIROP) in Pittsfield, MA. The Navy NIROP facility in Massachusetts is a large multi dwelling facility, encompassing almost 900,000 sq. ft. There are three main ordnance plant (OP) buildings on the NIROP facility, OPs 1, 2, and 3. The OPs were built in the 1940s and 1950s, and the last major renovations were in the 1970s.

Funding fluctuates annually based on specific maintenance projects necessary to correct environmental, safety, and energy conservation deficiencies. Decrease from FY 2024 to FY 2025 reflects completion of the Chiller Replacement for Ordinance Plant 1/2. FY 2025 scope includes Electric Service Equipment and Air Handler Refreshes.

Cost Code 2.2 provides for Auxiliary Systems Equipment Refresh. The Auxiliary Systems Refresh is required to keep shipboard auxiliary systems operational and able to support the tactical development and training mission. Funding in FY 2025 includes completion of Missile Interface and Cable Tester (MICT) software effort. FY 2025 also includes final production and installation of Weapon System Simulator (WSS) and Training Stimulation System (TSS) kits and initial production of MICT kits.

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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603561N, 0603595N, 0603570N, 0901211N, 0805376N, 0101228N
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Cost Code 2.3 provides for Targeting Hardware which consists of computer and network hardware replacement for life cycle support components including Distributed Graphics Systems, Targeting Analysis and Application Platforms, as well as Zone D enclave and tactical equipment.

Cost Code 2.4 provides a refresh of the existing SSP Advanced Inventory and Logistics (SAIL) system to include software and hardware procurements necessary for the system to meet Information Assurance (IA) compliance requirements. SAIL is SSP's inventory tracking system.

Cost Code 2.5 provides refresh of Targeting Software which supports all Submarine Launched Ballistic Missile (SLBM) Targeting and USSTRATCOM support functions. These functions involve development and testing of mission planning software for integration into strategic planning software at USSTRATCOM, training and analysis software used at SSBN Task Forces 134/144, targeting software used in shipboard fire control software. This targeting software is used onboard a SSBN and sent to USSTRATCOM mission planning which develops Strategic war plan.

Navigation Equipment:
Cost Code 3.4 provides ESGN Stable Platform & Housing Material (SPH) & Shock Isolation System Refresh.
FY 2025 effort procures 4 INS refurbishment hardware kits of material and 1 long lead kit of material. Each kit contains gimbal assembly motors, angle readout assemblies, slip rings, water distribution assemblies, coolant case covers, fans, heat exchanger assemblies, thermal management assemblies, shock isolation refurbishment bearings and general refurbishment materials. Additional efforts include engineering support for Pittfield Facility refurbishment readiness efforts to support Low-Rate Initial Production beginning in FY 2026.

Instrumentation/Missile Test Equipment:
Funding in all years provides for shore based and shipboard test instrumentation equipment in support of missile flight tests.

Cost Code 4.1 funds provisioning spares for shipboard spare end items, to include items umbilical cable shipsets, as well as missile test and readiness equipment, equipment section body bridge support equipment, inspection gages, and personal access mats.

Cost Code 4.5 funds Flight Test Instrumentation equipment. Scope varies annually based on specific FTI systems being refreshed. FY 2025 refresh costs increase for a comprehensive refresh of Midcourse Radar (MCR) due to end of service life. This refresh will replace radar-antenna, transmitter, and backend electronics components to support future flight tests. The MCR is capable of tracking East Coast missile launches from a few seconds after launch through equipment section burnout. MCR provides critical data in anomaly investigations and is used to analyze experiments and developmental reentry bodies. There is no other radar on the East Coast that can replicate the data provided by MCR.

Information Technology (IT):
Cost Code 5.1 funding in all years provides for IT equipment acquisitions (hardware and related software) in support of SSP. This includes the IT hardware and software components connected to the Strategic Weapons System Network (SWSNET). FY 2025 increase to support hardware refreshes at SSP field sites as well as increases associated with computer hardware.

ALTERATIONS
Alterations to non-flying tactical hardware are continuing requirements for the SWS. Requirements relate primarily to shipboard investments in (COTS/NDI) SWS subsystem equipment, including periodic refresh cycles, to ensure continued reliable performance of the weapon system for its extended service life to match the OHIO Class life extension. SPALTs also entail the application of available technology to eliminate personnel safety hazards, correct design deficiencies, maintain system effectiveness by resolving equipment operability problems, achieve logistic economies, and provide for shipboard subsystem D5 life extension modernization efforts.

Funds are required to procure alterations to the SWS launcher and fire control subsystems; to inertial, non-inertial, and ESGN navigation subsystem equipment on deployed SSBNs and installed at supporting shore facilities, and to missile handling equipment, missile test and readiness equipment, and surface support equipment. Installation of approved SPALTs is performed on a turnkey basis in conjunction with the procurement of equipment. Use of COTS/NDI has been initiated and is being implemented in all subsystems, wherever possible.

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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603561N, 0603595N, 0603570N, 0901211N, 0805376N, 0101228N
Line Item MDAP/MAIS Code: N/A		

Launcher and Handling Equipment:

Cost Code 6.3 Efforts in FY25 begin redesign of D5LE Missile Hoist.

Cost Code 6.4 increases from FY 2024 to FY 2025 to fund the retention segment SPALT development and Cooling Chamber Shipping Safety Cover development. These SPALTS are necessary to address aging and obsolescence issues.

Fire Control Equipment:
Cost Code 7.2 Minor SPALTs funds non-SSI related Fire Control development efforts in support of Strategic Weapon System and Fire Control capability insertions and sustainment. These efforts include FC enhancements and corrections for non-SSI FC changes including the associated auxiliary systems and training systems changes, as well as associated System Engineering Integration Team (SEIT) efforts and software development.

Navigation Equipment:
Cost Code 8.2 provides for Legacy ESGN SPALTs. Effort continues in FY 2025 to fund hardware retrofits necessary during initial deployment of Increment 8. Due to the compressed deployment and accelerated production schedule, not all changes could be made to the production line prior to units being accepted by the government. This funding is necessary to allow for the implementation and procurement of these changes to ensure the maintainability improvements are integrated, and that the newly deployed navigation systems remain able to meet weapon system accuracy and availability requirements.

Cost Code 8.3 FY 2024 began two new refreshes - TDDSv4 Refresh which supports media encryption of data for SSI Inc 8 and 13 and NAVOCEANO Electronic Documentation System (NEDS) refresh. As these two refreshes ramp up in FY 2025, the cost code is offset by decrease in quantity of the TR-143A.

Cost Code 8.4 Provides for development of the TR-E1 (TRIDENT SSI 8 Version 1) Software SPALT which updates the Tactical navigation software onboard the SSBN in order to resolve any anomalies with Increment 8 initial outfitting. SPALT completed in FY 2024.

Cost Code 8.6 Provides for development of the Broadband Navigation SONAR Navigation Sonar System (BBNS), which transitioned from a Small Business Innovation Research (SBIR) project to a production effort. This initiative will focus on the modernization and extension of the existing navigation sonar technology developed in the 1970s and will remove operational constraints within the current system and reduce sensitivity to operational environments. Decrease from FY 2024 to FY 2025 due to completion of development effort and start of capability transition into tactical subsystem.

Instrumentation/Missile Checkout equipment:
Cost Code 9.1 FY 2025 funding continues Forecast Instrumentation SPALTs for hardware modification to submarine instrumentation of flight systems.

ALTERATIONS (SSI and SSMP)
The majority of the Alterations funding supports the Shipboard System Integration (SSI) program which utilizes a COTS based strategy that integrates common electronics (from Fire Control, Launcher, Navigation and Shipboard Data Recording Systems) into the fire control sub-system as well as refreshing inertial systems in order to ensure the TRIDENT II (D5) weapon system can be sustained to support both the OHIO class submarines through their end of life as well as support the COLUMBIA class submarines currently in production.

Below is a description of each current SSI Increment (Inc):

SSI Inc 8: Inc 8 provides replacement of the 30-year-old Electrostatic Gyro Navigator (ESGN) which needs a refresh of inertial technology components, replacement of the Electronic Equipment Consoles (EEC), and updates to Navigation Subsystem software to accommodate the ESGN replacement navigator. Also, provides SWS subsystem SPALTs for FCS and TTF NAV Lab trainers, and SDS/DRS Software SPALT changes which are driven by data requirement changes. The SHIPALTs retain NAV Center bedplate, cabling, chilled water/ventilation, and retain electrical power. The current ESGN was designed and deployed

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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603561N, 0603595N, 0603570N, 0901211N, 0805376N, 0101228N
Line Item MDAP/MAIS Code: N/A		

in the early 1980s with a 20-year designed service live. This refresh is critical to ensure the program continues to meet USSTRATCOM requirements, and to ensure the operational availability of the OHIO, VANGUARD, COLUMBIA and Dreadnought SSBNs.

Inc 8 efforts in FY 2025 include:

Cost Code 10.4 funding for trusted agent independent validation and verification (IV&V) for subsystem qualification concluded in FY 2023 as the program transitioned to production.

Cost Code 10.5 funding reduces from FY 2024 to FY 2025 as production activities ramp down, gyroscope costs support ongoing production through completion of final gyroscope delivery.

Cost Code 10.6 provides funding for the procurement of spares and On-Board Replacement Parts (OBRPs) required for deploying Inc 8 SPALT. OBRP procurement completed in FY 2023.

Cost Code 10.7 INS procurement completed in FY 2023.

Cost Code 10.8 funding decreases from FY 2024 to FY 2025 following completion of Inc 8 prerequisite Fire Control SPALT 30409. Funding supports required alterations to the ship to facilitate INC 8 installation. Funding reduces as installations decrease from 5 to 3 in 2025.

Cost Code 10.9 funding decreases from FY 2024 to FY 2025 following Inc 8 enabling SPALT completion. FY 2025 funds installation on 3 SSBNs vice 5 in 2024.

Cost Code 10.10 funds the establishment of a fault isolation capability for Gyroscopes. Currently, for a gyro failure, CONOPs requires removing and replacing all three gyroscopes onboard the SSBN. Once established, the capability to diagnose which gyroscope is faulty allows for the non-faulty gyroscopes to be placed back into stock. This increased availability allows for a decrease in new gyroscope procurement. The total gyroscope quantity produced for Increment 8 has been decreased, with the elimination of planned procurements as a result of the decision to pursue this fault isolation capability. Increase from FY 2024 to FY 2025 as establishment of Fault Isolation Capability ramps up.

SSI Inc 11:
Launcher Initiation System (LIS) is being developed for backfit onto OHIO Class D5LE. This provides a technical refresh of 30+ year old technology to ensure long term system reliability. This SHIPALT replaces electrical cable with hybrid fiber-optic/electrical cable.

Inc 11 efforts in FY 2025 include:

Cost Code 11.6 continues installation of Launcher system Increment 11 LIS Fiberoptic cables in FY 2025.

Cost Code 11.7 continues LIS Fire Control SPALT kit installation efforts at the continued rate of one per year. In FY 2025 efforts include the installation and testing on 24 Missilized tubes on 1 SSBN during the SSBN's planned ERP period.

SSI Inc 13:
Inc 13 provides Shipboard Systems Refresh for FCS, NAV, and Missile Test and Readiness Equipment (MTRE) for integration with the subsystems.

Cost Code 12.1 provides MTRE refresh to integrate with Fire Control software changes for SSI Inc 13. FY 2025 effort decreases from FY 2024 as MTRE Refresh completed Phase 2 Proofing, Proofing Authentication, and Refresh 1 FC/MTRE Integration Testing in FY 2024. FY 2025 finalizes SPALT accomplishment.

Cost Code 12.9 funds the installation of Inc 13 Fire Control and Navigation updates. Decrease from FY 2024 to FY 2025 as final installations of Fire Control Inc 13 SPALT completed in 2024.

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ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0603561N, 0603595N, 0603570N, 0901211N, 0805376N, 0101228N
Line Item MDAP/MAIS Code: N/A		

SSI Inc 15: Inc 15 provides pre-configuration and post-configuration support of Inc 8 and Inc 11. Inc 15 is a critical path and the baseline for the deployment of the COLUMBIA Class SSBN. Inc 15 involves refreshes to several subsystems such as alterations for fire control equipment, navigation, launcher, and trainer subsystems. Due to the developmental challenges experienced for SSI Inc 8 during the engineering and test phase, SSP reduced the efforts of SSI Inc 15 to the minimally required effort to address obsolescence issues which are required for the SWS to be the initial baseline for the COLUMBIA class SSBN.

Inc 15 efforts in FY 2025 include:

Cost Code 13.2 funding for Fire Control SSI Inc 15 development. Decrease from FY 2024 to FY 2025 due to completion of verification and validation, and Fire Control and Shipboard Data System Software Development Readiness Review (SWDRR).

Cost Code 13.3 funding for hardware required for Inc 15 updates to the Fire Control system. Program decreases from FY 2024 to FY 2025 due to a decrease in quantity of tactical fire control kits procured. FY 2025 kits include 3 SDS boat kits and 3 spares.

Cost Code 13.5 funds installation of Increment 15 Fire Control kits. Increase from FY 2024 to FY 2025 as installation of Increment 15 continues and increases from initial installation proofing efforts in FY 2024. Installed equipment includes MIN Network Switch, Server, Portable Network Device and Portable Computing Devices, along with the mechanical mounting components and cabling and associated software.

SHIPBOARD SYSTEMS MODERNIZATION PORTFOLIO (SSMP) Program
SSMP is an integrated modernization program structured and phased with SSI to leverage the established industrial base supporting all aspects of the Shipboard sub-systems. This will enable the SWS to be more agile and adaptable to the evolving threats and warfighter needs.

Cost Code 14.1: Advanced Development and Technology Maturation (SAMI)
FY 2025 efforts include refining the shipboard architectural descriptive model, performing technology trades to support common infrastructure development, evaluation of next-generation COTS technologies to replace those currently used in the SWS, and the development of core common infrastructure capabilities including General Purpose Computing, Virtualization, Secure Communications, System Timing, and Embedded Processing.

Cost Code 14.2: Shipboard Re-Architecture Development (SAMI)
Cost Code 14.2 includes the efforts to develop the shipboard re-architecture which will maximize adaptability of the SWS to adapt to changing threats by enabling rapid deployment of cost-effective solutions. FY 2025 efforts include pulling forward design elements from previous SSI/development programs (Cost Code 2.6 and 13.2) as well as core infrastructure capabilities (Cost Code 14.1) for integration as the first baseline of the General Purpose Computing (GPC). Specifically, FY 2025 will complete developmental activities associated with virtualization infrastructure, integration of cyber-security features, porting select SWS software to Linux-based virtual machines, establishing related software infrastructure, and developing the next generation workstation design in preparation for production starting in FY 2026. These development activities are the building blocks for the system re-architecture and form the foundation of the design for the GPC. The GPC and corresponding workstations are the first elements of the system that will be modified to begin implementation of the re-architecture and are planned to deploy in the mid-2020s.

Cost Code 14.3: Obsolescence Management (C2SI)
Cost Code 14.3 consists of obsolescence management activities necessary to maintain the currently deployed SWS. Specifically, this includes technology refresh of obsolete elements of the shipboard systems to ensure continued reliability and availability of the deployed SWS while maintaining compatibility with the pull through elements that are part of the COLUMBIA design. FY 2025 efforts include technology refreshes for elements of the SWS not refreshed by prior SSI increments. Specifically, FY 2025 includes effort to develop plans to resolve outstanding hardware replenishment requirements for non-inertial elements of the deployed tactical Navigation System, Fire Control System, Launcher Subsystem, and Shipboard Data System identified as at risk for obsolescence and includes the start of development of alterations to refresh those items.

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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603561N, 0603595N, 0603570N, 0901211N, 0805376N, 0101228N
Line Item MDAP/MAIS Code: N/A		

Cost Code 14.4: Capability Insertion (C2SI)
Cost Code 14.4 consists of incremental deployment of capabilities necessary to maintain SWS effectiveness against a changing threat environment. This includes product improvements and optimizations of the SWS to meet USSTRATCOM requirements. FY 2025 includes Shipboard Planning and Operational Flexibility (SPOF) functions designed to provide optimizations of SWS performance.

TRAINING SUPPORT EQUIPMENT:
Cost Code 15.1
This category provides for procurement of, and alterations to, both tactical and non-tactical equipment required at submarine training facilities to train personnel in the operation and maintenance of launcher and handling, fire control, navigation, missile checkout, and test instrumentation subsystems. Each training facility consists of an integrated family of system and unit laboratories that interface with a training simulation system to provide complete and realistic training for replacement and off-crew personnel, both officer and enlisted, as required for manning of SSBNs and shore facilities. Funding is budgeted to procure training-unique equipment required as the result of alterations to SWS tactical equipment, including those associated with D5 life extension.

COLUMBIA CLASS:
Cost code 16.1 funding for COLUMBIA Class TRIPER spares was initiated in FY 2022. FY 2025 funds continue Kings Bay and Bangor Team Trainer procurements and TRIPER spares procurements. 2025 also includes Industrial Plant Equipment procurement which will continue through 2030.

Cost code 16.2 funding is for COLUMBIA Class SSBN trainer equipment. Funding is required to develop, procure, install and test the Strategic Weapon Support Systems (SWSS) trainer equipment suite within the COLUMBIA Class Kings Bay (KB) TRIDENT Training Facility (TTF) 2-tube configuration. Procurement of select SWSS components such as the training missile tube, on-tube components and bench trainers commenced in FY 2022 to ensure missile tubes are installed before exterior building construction is complete (FY 2024) and all remaining hardware will be delivered in FY 2024 and the first half of FY 2025 to commence installation efforts. FY 2025 funding continues the installation, subsystem grooming and integration testing of the SWSS hardware suite with the Fire Control subsystem. Final System Acceptance testing is planned for FY 2026.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
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Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) Other Material Support- Launcher and Handling Equipment																				
1.1) Casting Powder Lot Buy	A		1,926.333	9	17.337	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) Gas Generator Production (1)(†)	A		323.736	106	34.316	179.500	20	3.590	-	-	-	207.950	20	4.159	-	-	-	207.950	20	4.159
1.3) Gas Generator Case Hardware (2)	A		-	-	6.076	-	-	-	-	-	4.086	-	-	-	-	-	-	-	-	-
1.4) Launch Tube Closures	A		533.218	55	29.327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) Ballast Production(†)	A		442.475	40	17.699	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.6) Ballast Installation	A		-	-	2.252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) Other Material Support- Launcher and Handling Equipment			**-**	**-**	***107.007***	**-**	**-**	***3.590***	**-**	**-**	***4.086***	**-**	**-**	***4.159***	**-**	**-**	**-**	**-**	**-**	***4.159***
2) Other Material Support-Fire Control Equipment																				
2.1) Nirop Capital Maintenance (3)	A		-	-	58.529	-	-	9.987	-	-	12.047	-	-	8.143	-	-	-	-	-	8.143
2.2) Fire Control Auxillary Support Equipment (4)	A		-	-	30.795	-	-	8.485	-	-	8.646	-	-	8.319	-	-	-	-	-	8.319
2.3) D5 Targeting Hardware	A		-	-	7.082	-	-	0.964	-	-	0.983	-	-	1.002	-	-	-	-	-	1.002
2.4) Advanced Inventory Logistics (SAIL)	A		-	-	13.644	-	-	3.153	-	-	3.216	-	-	3.280	-	-	-	-	-	3.280
2.5) Targeting Software Refresh	A		-	-	81.335	-	-	12.324	-	-	13.479	-	-	13.748	-	-	-	-	-	13.748
2.6) SPOF (formerly RT - WEG)	A		-	-	43.074	-	-	9.213	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) Other Material Support- Fire Control Equipment			**-**	**-**	***234.459***	**-**	**-**	***44.126***	**-**	**-**	***38.371***	**-**	**-**	***34.492***	**-**	**-**	**-**	**-**	**-**	***34.492***
3) Other Material Support-Navigation Equipment																				
3.1) Stable Platform and Housing Material Kits(†)	A		369.378	37	13.667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) Shock Isolation System Kits(†)	A		749.714	28	20.992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.3) Factory Test Equipment	A		-	-	15.202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.4) ESGN(R) Stable Platform & Housing	A		-	-	-	-	-	-	-	-	7.500	-	-	7.650	-	-	-	-	-	7.650

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	P-1 Line Item Number / Title: 5358 / Strategic Missile Systems Equip	Aggregated Items Title: Strategic Missile Systems Equip

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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)
Mat. & Shock Isolation System Kits																				
Subtotal: 3) Other Material Support- Navigation Equipment			**-**	**-**	***49.861***	**-**	**-**	**-**	**-**	**-**	***7.500***	**-**	**-**	***7.650***	**-**	**-**	**-**	**-**	**-**	***7.650***
4) Other Material Support- Instrumentation/Missile Checkout Equipment																				
4.1) Umbilical Sets/ Kits(†)	A		2,185.500	8	17.484	1,756.000	1	1.756	1,791.000	1	1.791	1,826.000	1	1.826	-	-	-	1,826.000	1	1.826
4.2) Fire Suppression System	A		-	-	0.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.3) Electronic Documentation Refresh	A		-	-	1.852	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.4) Data System Integration	A		-	-	3.525	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.5) Flight Test Instrumentation (FTI) Refresh (5)	A		-	-	61.291	-	-	24.888	-	-	8.668	-	-	36.766	-	-	-	-	-	36.766
4.6) Range Systems Refresh	A		-	-	1.161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) Other Material Support- Instrumentation/Missile Checkout Equipment			**-**	**-**	***85.613***	**-**	**-**	***26.644***	**-**	**-**	***10.459***	**-**	**-**	***38.592***	**-**	**-**	**-**	**-**	**-**	***38.592***
5) Other Material Support- Information Technology																				
5.1) Hardware/ Software IT Procurement (6)	A		-	-	45.629	-	-	4.137	-	-	4.660	-	-	5.061	-	-	-	-	-	5.061
Subtotal: 5) Other Material Support- Information Technology			**-**	**-**	***45.629***	**-**	**-**	***4.137***	**-**	**-**	***4.660***	**-**	**-**	***5.061***	**-**	**-**	**-**	**-**	**-**	***5.061***
6) Alterations-Launcher and Handling Equipment																				
6.1) Detonator Power Assembly SPALT	A		2,810.000	1	2.810	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.2) Detonator Relay Box SPALT	A		1,902.000	2	3.804	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3) D5 Hoist (7)(†)	A		1,573.500	10	15.735	-	-	-	-	-	-	-	-	2.493	-	-	-	-	-	2.493
6.4) Launcher SPALTs (8)	A		-	-	97.468	-	-	9.217	-	-	10.667	-	-	12.153	-	-	-	-	-	12.153
Subtotal: 6) Alterations-Launcher and Handling Equipment			**-**	**-**	***119.817***	**-**	**-**	***9.217***	**-**	**-**	***10.667***	**-**	**-**	***14.646***	**-**	**-**	**-**	**-**	**-**	***14.646***
7) Alterations-Fire Control Equipment																				
7.1) Portable Computing Devices (PCD) Refresh SPALT	A		-	-	4.034	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.2) Minor SPALTS	A		-	-	69.991	-	-	17.071	-	-	17.412	-	-	17.760	-	-	-	-	-	17.760

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	**P-1 Line Item Number / Title:** 5358 / Strategic Missile Systems Equip	**Aggregated Items Title:** Strategic Missile Systems Equip

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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: 7) Alterations-Fire Control Equipment			**-**	**-**	***74.025***	**-**	**-**	***17.071***	**-**	**-**	***17.412***	**-**	**-**	***17.760***	**-**	**-**	**-**	**-**	**-**	***17.760***
8) Alterations-Navigation Equipment																				
8.1) Navigation Sonar System (NSS) Sensor Qualification	A		-	-	17.285	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.2) Legacy ESGN SPALTs	A		-	-	18.440	-	-	2.060	-	-	2.122	-	-	2.164	-	-	-	-	-	2.164
8.3) Transducer SPALTs (9)	A		-	-	15.761	-	-	3.040	-	-	10.856	-	-	7.794	-	-	-	-	-	7.794
8.4) Navigation Software SPALTs (10)	A		-	-	27.743	-	-	5.113	-	-	5.215	-	-	-	-	-	-	-	-	-
8.5) GPS Antenna Refresh	A		-	-	5.525	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.6) Broadband Navigation SONAR System (11)	A		-	-	3.610	-	-	2.100	-	-	2.142	-	-	1.950	-	-	-	-	-	1.950
Subtotal: 8) Alterations-Navigation Equipment			**-**	**-**	***88.364***	**-**	**-**	***12.313***	**-**	**-**	***20.335***	**-**	**-**	***11.908***	**-**	**-**	**-**	**-**	**-**	***11.908***
9) Alterations-Instrumentation/Missle Checkout Equipment																				
9.1) Forecast Instrumentation SPALTs	A		-	-	9.315	-	-	3.000	-	-	3.060	-	-	3.121	-	-	-	-	-	3.121
Subtotal: 9) Alterations-Instrumentation/Missle Checkout Equipment			**-**	**-**	***9.315***	**-**	**-**	***3.000***	**-**	**-**	***3.060***	**-**	**-**	***3.121***	**-**	**-**	**-**	**-**	**-**	***3.121***
10) SSI Increment 8																				
10.1) Navigation SSI Increment 8 Pre-Production Gyroscope	A		400.000	30	12.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.2) Navigation SSI Increment 8 Pre-Production Inertial Navigation System	A		1,500.000	8	12.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.3) Navigation SSI Increment 8 Engineering and Test	A		-	-	382.668	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10.4) Navigation SSI Increment 8 Independent verification and validation	A		-	-	26.521	-	-	0.352	-	-	-	-	-	-	-	-	-	-	-	-
10.5) Navigation SSI Increment 8	A		478.652	210	100.517	-	-	9.359	-	-	5.485	-	-	-	-	-	-	-	-	-

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	P-1 Line Item Number / Title: 5358 / Strategic Missile Systems Equip	Aggregated Items Title: Strategic Missile Systems Equip

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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)
Production Gyroscope (12)(†)																				
10.6) Navigation SSI Increment 8 On Board Repair Parts (OBRPs)	A		-	-	42.756	-	-	7.736	-	-	-	-	-	-	-	-	-	-	-	-
10.7) Navigation SSI Increment 8 Production INS(†)	A		3,013.381	21	63.281	2,947.364	11	32.421	-	-	-	-	-	-	-	-	-	-	-	-
10.8) Navigation SSI Increment 8 SHIPALT / Integration (13)	A		-	-	18.353	-	-	14.369	-	-	8.583	-	-	5.376	-	-	-	-	-	5.376
10.9) Navigation SSI Increment 8 Installation (14)	A		-	-	2.834	-	-	14.569	-	-	10.884	-	-	6.674	-	-	-	-	-	6.674
10.10) Gyroscope Fault Isolation Capability (15)	A		-	-	-	-	-	2.740	-	-	2.830	-	-	2.901	-	-	-	-	-	2.901
Subtotal: 10) SSI Increment 8			**-**	**-**	***660.930***	**-**	**-**	***81.546***	**-**	**-**	***27.782***	**-**	**-**	***14.951***	**-**	**-**	**-**	**-**	**-**	***14.951***
11) SSI Increment 11																				
11.1) Launcher SSI Increment 11 LIS Redesign	A		-	-	10.288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.2) Launcher Increment 11 System Integration Testing	A		-	-	5.404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.3) Launcher SSI Increment 11 LIS Support Equipment/ Fiberoptic Cables	A		-	-	3.496	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.4) Launcher SSI Increment 11 LIS Engineering and Test	A		-	-	10.973	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.5) Launcher SSI Increment 11 Firing Units/Launch Safing Units(†)	A		1,781.200	20	35.624	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.6) Launcher SSI Increment 11 LIS Fiberoptic Cables Installation	A		-	-	7.154	-	-	0.878	-	-	0.895	-	-	0.912	-	-	-	-	-	0.912
11.7) Fire Control SSI Increment 11 LIS SPALT Installs (16)	A		-	-	11.913	-	-	0.934	-	-	0.953	-	-	0.972	-	-	-	-	-	0.972
Subtotal: 11) SSI Increment 11			**-**	**-**	***84.852***	**-**	**-**	***1.812***	**-**	**-**	***1.848***	**-**	**-**	***1.884***	**-**	**-**	**-**	**-**	**-**	***1.884***

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	**P-1 Line Item Number / Title:** 5358 / Strategic Missile Systems Equip	**Aggregated Items Title:** Strategic Missile Systems Equip

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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)
12) SSI Increment 13																				
12.1) Instrumentation/ Missile SSI Increment 13 MTRE Refresh (17)	A		-	-	39.474	-	-	2.726	-	-	2.331	-	-	1.216	-	-	-	-	-	1.216
12.2) Navigation SSI Increment 13 Refresh/ Redesign	A		-	-	54.566	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.3) Navigation SSI Increment 13 Shipalt	A		-	-	0.575	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.4) Navigation SSI Increment 13 Independent Verification & Validation	A		-	-	0.880	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.5) Navigation SSI Increment 13 SPALT Kit Pre-Production(†)	A		536.000	6	3.216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.6) Navigation SSI Increment 13 On Board Repair Parts (OBRPs)	A		-	-	0.551	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.7) Fire Control SSI Increment 13 Refresh/ Redesign	A		-	-	87.110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.8) Fire Control SSI Increment 13 Electronics Refresh SPALT Kits(†)	A		2,296.261	23	52.814	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12.9) Fire Control and Navigation SSI Increment 13 Installation	A		-	-	7.138	-	-	6.806	-	-	0.958	-	-	-	-	-	-	-	-	-
Subtotal: 12) SSI Increment 13			***-***	***-***	***246.324***	***-***	***-***	***9.532***	***-***	***-***	***3.289***	***-***	***-***	***1.216***	***-***	***-***	***-***	***-***	***-***	***1.216***
13) SSI Increment 15																				
13.1) Navigation SSI Increment 15 Refresh/ Redesign	A		-	-	0.935	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13.2) Fire Control SSI Increment 15 Refresh/ Redesign (18)	A		-	-	94.617	-	-	15.705	-	-	8.263	-	-	-	-	-	-	-	-	-
13.3) Fire Control SSI Increment 15 Production (19)(†)	A		2,393.250	4	9.573	769.917	12	9.239	1,302.800	5	6.514	1,203.667	3	3.611	-	-	-	1,203.667	3	3.611
13.4) Launcher SSI Increment 15 Refresh & Systems Integration	A		-	-	3.176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	**P-1 Line Item Number / Title:** 5358 / Strategic Missile Systems Equip	**Aggregated Items Title:** Strategic Missile Systems Equip

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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)
13.5) Increment 15 Fire Control Installation [20]	A		-	-	-	-	-	-	-	-	5.112	-	-	7.502	-	-	-	-	-	7.502
Subtotal: 13) SSI Increment 15			**-**	**-**	***108.301***	**-**	**-**	***24.944***	**-**	**-**	***19.889***	**-**	**-**	***11.113***	**-**	**-**	**-**	**-**	**-**	***11.113***
14) Shipboard Systems Modernization Portfolio (SSMP)																				
14.1) Advanced Development & Tech Maturation [21]	A		-	-	10.878	-	-	10.145	-	-	18.822	-	-	19.198	-	-	-	-	-	19.198
14.2) Shipboard Re-Architecture Design [22]	A		-	-	4.243	-	-	4.714	-	-	24.552	-	-	26.392	-	-	-	-	-	26.392
14.3) Obsolescence Management [23]	A		-	-	0.867	-	-	1.815	-	-	20.802	-	-	25.347	-	-	-	-	-	25.347
14.4) Capability Insertion [24]	A		-	-	0.636	-	-	0.839	-	-	18.321	-	-	18.687	-	-	-	-	-	18.687
Subtotal: 14) Shipboard Systems Modernization Portfolio (SSMP)			**-**	**-**	***16.624***	**-**	**-**	***17.513***	**-**	**-**	***82.497***	**-**	**-**	***89.624***	**-**	**-**	**-**	**-**	**-**	***89.624***
15) Training Support Equipment																				
15.1) Training Support Equipment	A		-	-	154.562	-	-	9.914	-	-	12.029	-	-	12.269	-	-	-	-	-	12.269
Subtotal: 15) Training Support Equipment			**-**	**-**	***154.562***	**-**	**-**	***9.914***	**-**	**-**	***12.029***	**-**	**-**	***12.269***	**-**	**-**	**-**	**-**	**-**	***12.269***
16) Columbia Class																				
16.1) Columbia TRIPER spares [25]	A		-	-	14.785	-	-	2.334	-	-	54.487	-	-	45.524	-	-	-	-	-	45.524
16.2) SWSS Trainer Equipment [26]	A		-	-	9.198	-	-	11.737	-	-	6.947	-	-	11.266	-	-	-	-	-	11.266
Subtotal: 16) Columbia Class			**-**	**-**	***23.983***	**-**	**-**	***14.071***	**-**	**-**	***61.434***	**-**	**-**	***56.790***	**-**	**-**	**-**	**-**	**-**	***56.790***
Total			**-**	**-**	**2,109.666**	**-**	**-**	**279.430**	**-**	**-**	**325.318**	**-**	**-**	**325.236**	**-**	**-**	**-**	**-**	**-**	**325.236**

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

(†) indicates the presence of a P-5a

Footnotes:

(1) Gas Generator Production funding in FY 2025 increases as 20 Gas Generators (GG) are procured, an increase from 0 in FY 2024 in accordance with the revised acquisition strategy of alternate year procurements.

(2) Cost Code 1.3 funding provides the procurement and qualification of GG Case Hardware required to replace cases for expended/fired GGs. Funding in this category fluctuates year to year due to flight schedules. Funding decreases from FY 2024 to FY 2025 since there are no surface launch test facility events.

(3) Funding fluctuates annually based on specific maintenance projects necessary to correct environmental, safety, and energy conservation deficiencies. Decrease from FY 2024 to FY 2025 reflects completion of the Chiller Replacement for Ordinance Plant 1/2. FY 2025 scope includes Electric Service Equipment and Air Handler Refreshes.

(4) Funding decreases from FY 2024 to FY2025 due to completion of Missile Interface and Cable Tester (MICT) software effort. FY 2025 also includes final production and installation of Weapon System Simulator (WSS) and Training Stimulation System (TSS) kits and initial production of MICT kits.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	**P-1 Line Item Number / Title:** 5358 / Strategic Missile Systems Equip	**Aggregated Items Title:** Strategic Missile Systems Equip

(5) Cost Code 4.5 funds Flight Test Instrumentation equipment. Scope varies annually based on specific FTI systems being refreshed. FY 2025 refresh costs increase due to additional number of systems being refreshed compared to FY 2024. In FY 2025, funding provides a refresh of Midcourse Radar (MCR) to will replace all major components of the radar -antenna, transmitter, and backend electronics to support future flight tests. The MCR capable of tracking East Coast missile launches from a few seconds after launch through equipment section burnout. MCR data is critical for any anomaly investigation and to analyze experiments and developmental reentry bodies. There is no other radar on the East Coast that can replicate the data provided by MCR.

(6) Funding in all years provides for IT equipment acquisitions (hardware and related software) in support of SSP. This includes the IT hardware and software components connected to the Strategic Weapons System Network (SWSNET). FY 2025 increases due to hardware refresh cycle which continues and expands refresh of IT hardware at SSP field sites.

(7) Efforts in FY25 begin redesign of D5LE Missile Hoist.

(8) Cost Code 6.4 increases from FY 2024 to FY 2025 to fund the retention segment SPALT development and Cooling Chamber Shipping Safety Cover development. These SPALTS are necessary to address aging and obsolescence issues.

(9) FY 2024 began two new refreshes - TDDSv4 Refresh which supports media encryption for SSI Inc 8 and 13 and NEDS refresh. These refreshes ramp up in FY 2025. As these ramp up, the TR-143A SPALT efforts ramp down. Decrease from FY 2024 to FY 2025 due to reduction in quantity of TR-143A SPALT from 6 in FY 2024 to 1 in FY 2025.

(10) Reduction from FY 2024 to FY 2025 due to SPALT completion in FY 2024.

(11) Decrease from FY 2024 to FY 2025 due to completion of development effort and start of capability transition into tactical subsystem.

(12) Funding reduces from FY 2024 to FY 2025 as production activities concluded.

(13) Funding decreases from FY 2024 to FY 2025 following completion of Inc 8 prerequisite Fire Control SPALT 30409. Funding supports required alterations to the ship to facilitate INC 8 installation. Funding reduces as installations decrease from 5 to 3 in 2025.

(14) Funding decreases from FY 2024 to FY 2025 following Inc 8 enabling SPALT completion. FY 2025 funds installation on 3 SSBNs vice 5 in 2024.

(15) Cost Code 10.10 funds the establishment of a fault isolation capability for Gyroscopes. Currently, for a gyro failure, CONOPs requires removing and replacing all three gyroscopes onboard the SSBN. Once established, the capability to diagnose which gyroscope is faulty allows for the non-faulty gyroscopes to be placed back into stock. This increased availability allows for a decrease in new gyroscope procurement. The total gyroscope quantity produced for Increment 8 has been decreased, with the elimination of planned procurements as a result of the decision to pursue this fault isolation capability. Increase from FY 2024 to FY 2025 as establishment of Fault Isolation Capability ramps up.

(16) FY 2025 continues with the final installation of Fire Control Inc 11 SPALT kits.

(17) FY 2025 effort decreases from FY 2024 as MTRE Refresh completes proofing in FY 2024 and finalizes SPALT accomplishment in FY 2025.

(18) Funding decreases from FY 2024 to FY 2025 as development efforts concluded.

(19) Cost Code 13.3 provides funding for hardware required for Inc 15 updates to the Fire Control system. Program decreases from FY 2024 to FY 2025 due to a decrease in quantity of tactical fire control kits procured. FY 2025 kits include 3 SDS boat kits and 3 spares.

(20) Increase from FY 2024 to FY 2025 as installation of Increment 15 continues and increases from initial installation proofing efforts in FY 2024. Installed equipment includes MIN Network Switch, Server, Portable Network Device and Portable Computing Devices, along with the mechanical mounting components and cabling and associated software.

(21) Increase from FY 2024 to FY 2025 as efforts refine the shipboard architectural descriptive model, perform technology trades to support common infrastructure development, evaluate next-generation COTS technologies to replace those currently used in the SWS, and develop core common infrastructure capabilities including General Purpose Computing, Virtualization, Secure Communications, System Timing, and Embedded Processing.

(22) Increase from FY 2024 to FY 2025 as efforts include pulling forward design elements from previous SSI/development programs (Cost Code 2.6 and 13.2) as well as core infrastructure capabilities (Cost Code 14.1) for integration as the first baseline of the General Purpose Computing (GPC). Specifically, FY 2025 will complete developmental activities associated with virtualization infrastructure, integration of cyber-security features, porting select SWS software to Linux-based virtual machines, establishing related software infrastructure, and developing the next generation workstation design in preparation for production starting in FY 2026. These development activities are the building blocks for the system re-architecture and form the foundation of the design for the GPC. The GPC and corresponding workstations are the first elements of the system that will be modified to begin implementation of the re-architecture and are planned to deploy in the mid-2020s.

(23) FY 2025 increase from FY 2024 as efforts ramp for technology refreshes of elements of the SWS not refreshed by prior SSI increments. Specifically, FY 2025 includes effort to develop plans to resolve outstanding hardware replenishment requirements for non-inertial elements of the deployed tactical Navigation System, Fire Control System, Launcher Subsystem, and Shipboard Data System identified as at risk for obsolescence and includes the start of development of alterations to refresh those items.

(24) Cost Code 14.4 consists of incremental deployment of capabilities necessary to maintain SWS effectiveness against a changing threat environment. This includes product improvements and optimizations of the SWS to meet USSTRATCOM targeting objectives and counter emerging threats. FY 2025 includes continued support of SPOF functions designed to provide optimizations of SWS performance to meet USSTRATCOM targeting objectives.

(25) FY 2025 funds continue Kings Bay and Bangor Team Trainer procurements and TRIPER spares procurements. 2025 also continues Industrial Plant Equipment procurement which will continue through 2030.

(26) FY 2025 increase reflects the transition to the complete installation, subsystem grooming and system integration testing of the SWSS hardware suite in advance of Ready For Training (RFT) in the second quarter of FY 2026.

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
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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 ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) Other Material Support- Launcher and Handling Equipment												
1.2) Gas Generator Production (1)		2016	NORTHROP GRUMMAN (27) / Rocket Center, WV	C / CPFF	Washington Navy Yard, DC	Mar 2016	Mar 2018	8	320.625	Y		
1.2) Gas Generator Production (1)		2017	NORTHROP GRUMMAN (27) / Rocket Center, WV	C / CPFF	Washington Navy Yard, DC	Mar 2017	Mar 2019	8	327.038	Y		
1.2) Gas Generator Production (1)		2018	NORTHROP GRUMMAN (27) / Rocket Center, WV	C / CPFF	Washington Navy Yard, DC	Mar 2018	Mar 2020	8	333.578	Y		
1.2) Gas Generator Production (1)		2019	NORTHROP GRUMMAN (27) / Rocket Center, WV	C / CPFF	Washington Navy Yard, DC	Mar 2019	Mar 2021	10	340.249	Y		
1.2) Gas Generator Production (1)		2020	NORTHROP GRUMMAN (27) / Rocket Center, WV	C / CPFF	Washington Navy Yard, DC	Mar 2020	Mar 2022	10	347.055	Y		
1.2) Gas Generator Production (1)		2021	NORTHROP GRUMMAN (27) / Rocket Center, WV	C / CPFF	Washington Navy Yard, DC	Mar 2021	Mar 2023	10	353.996	Y		
1.2) Gas Generator Production (1)		2023	NORTHROP GRUMMAN (27) / Rocket Center, WV	C / CPFF	Washington Navy Yard, DC	Mar 2023	Mar 2025	20	179.500	Y		
1.2) Gas Generator Production (1)		2025	NORTHROP GRUMMAN (27) / Rocket Center, WV	C / CPFF	Washington Navy Yard, DC	Mar 2025	Mar 2027	20	207.950	Y		
1.5) Ballast Production(†)		2017	Lockheed Martin / Sunnyvale, CA	C / CPIF	Washington Navy Yard, DC	Mar 2017	Mar 2018	15	437.000	Y		
1.5) Ballast Production(†)		2018	Lockheed Martin / Sunnyvale, CA	C / CPIF	Washington Navy Yard, DC	Mar 2018	Mar 2019	25	445.760	Y		
3) Other Material Support-Navigation Equipment												
3.1) Stable Platform and Housing Material Kits		2016	Boeing / Anaheim, CA	C / CPFF	Washington Navy Yard, DC	Oct 2015	Oct 2017	5	371.000	Y		
3.1) Stable Platform and Housing Material Kits		2017	Boeing / Anaheim, CA	C / CPFF	Washington Navy Yard, DC	Oct 2016	Oct 2018	2	378.000	Y		
3.1) Stable Platform and Housing Material Kits		2018	Boeing / Anaheim, CA	C / CPFF	Washington Navy Yard, DC	Oct 2017	Oct 2019	4	385.560	Y		
3.1) Stable Platform and Housing Material Kits		2019	Boeing / Anaheim, CA	C / CPFF	Washington Navy Yard, DC	Oct 2018	Oct 2020	4	393.271	Y		
3.2) Shock Isolation System Kits		2015	Boeing / Anaheim, CA	C / CPIF	Washington Navy Yard, DC	Feb 2015	Feb 2016	6	733.000	Y		
3.2) Shock Isolation System Kits		2016	Boeing / Anaheim, CA	C / CPIF	Washington Navy Yard, DC	Oct 2015	Oct 2016	6	747.000	Y		
3.2) Shock Isolation System Kits		2017	Boeing / Anaheim, CA	C / CPIF	Washington Navy Yard, DC	Oct 2016	Oct 2017	2	760.708	Y		

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
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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 ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.2) Shock Isolation System Kits		2018	Boeing / Anaheim, CA	C / CPIF	Washington Navy Yard, DC	Oct 2017	Oct 2018	4	775.922	Y		
3.2) Shock Isolation System Kits		2019	Boeing / Anaheim, CA	C / CPIF	Washington Navy Yard, DC	Oct 2018	Oct 2019	4	791.441	Y		
4) Other Material Support- Instrumentation/Missile Checkout Equipment												
4.1) Umbilical Sets/Kits		2019	Lockheed Martin / Sunnyvale,CA	C / CPIF	Washington Navy Yard, DC	Oct 2018	Oct 2021	1	2,742.000	Y		
4.1) Umbilical Sets/Kits		2020	Lockheed Martin / Sunnyvale,CA	C / CPIF	Washington Navy Yard, DC	Oct 2019	Oct 2022	1	2,797.000	Y		
4.1) Umbilical Sets/Kits		2021	Lockheed Martin / Sunnyvale,CA	C / CPIF	Washington Navy Yard, DC	Oct 2020	Oct 2023	1	2,853.000	Y		
4.1) Umbilical Sets/Kits		2022	Lockheed Martin / Sunnyvale,CA	C / CPIF	Washington Navy Yard, DC	Nov 2021	Nov 2024	1	1,300.000	Y		
4.1) Umbilical Sets/Kits		2023	Lockheed Martin / Sunnyvale,CA	C / CPIF	Washington Navy Yard, DC	Oct 2022	Oct 2025	1	1,756.000	Y		
4.1) Umbilical Sets/Kits		2024	Lockheed Martin / Sunnyvale,CA	C / CPFF	Washington Navy Yard, DC	Oct 2023	Oct 2026	1	1,791.000	Y		
4.1) Umbilical Sets/Kits		2025	Lockheed Martin / Sunnyvale,CA	C / CPFF	Washington Navy Yard, DC	Oct 2024	Oct 2027	1	1,826.000	Y		
6) Alterations-Launcher and Handling Equipment												
6.3) D5 Hoist (7)		2016	NORTHROP GRUMMAN / Sunnyvale, CA	C / CPFF	Washington Navy Yard, DC	Oct 2015	Jan 2018	2	1,613.000	Y		
10) SSI Increment 8												
10.5) Navigation SSI Increment 8 Production Gyroscope (12)(†)		2017	Lockheed Martin (SSI Increment #8 Gyroscope) / Mitchfield, NY	C / CPIF	Washington Navy Yard, DC	May 2017	May 2019	9	382.500	Y		
10.5) Navigation SSI Increment 8 Production Gyroscope (12)(†)		2018	Lockheed Martin (SSI Increment #8 Gyroscope) / Mitchfield, NY	C / CPIF	Washington Navy Yard, DC	Jan 2018	Jan 2020	24	431.458	Y		
10.5) Navigation SSI Increment 8 Production Gyroscope (12)(†)		2019	Lockheed Martin (SSI Increment #8 Gyroscope) / Mitchfield, NY	C / CPIF	Washington Navy Yard, DC	Nov 2018	Feb 2021	31	830.774	Y		
10.5) Navigation SSI Increment 8 Production Gyroscope (12)(†)		2020	Lockheed Martin (SSI Increment #8 Gyro Accel) / Mitchfield, NY	C / CPIF	Washington Navy Yard, DC	Jan 2020	Oct 2021	67	392.075	Y		
10.5) Navigation SSI Increment 8 Production Gyroscope (12)(†)		2021	Lockheed Martin (SSI Increment #8 Gyro Accel) / Mitchfield, NY	C / CPIF	Washington Navy Yard, DC	Jan 2021	Aug 2022	35	317.514	Y		
10.5) Navigation SSI Increment 8 Production Gyroscope (12)(†)		2022	Lockheed Martin (SSI Increment #8 Gyro Accel) / Mitchfield, NY	C / CPIF	Washington Navy Yard, DC	Nov 2021	May 2023	44	258.364	Y		
10.7) Navigation SSI Increment 8 Production INS(†)		2019	Lockheed Martin (SSI Increment #8 Inertial Navigation System (INS)) / Mitchfield,NY	C / CPIF	Washington Navy Yard, DC	Nov 2018	Feb 2020	2	3,778.000	Y		

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
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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 ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
10.7) Navigation SSI Increment 8 Production INS(†)		2021	Lockheed Martin (SSI Increment #8 Inertial Navigation System (INS)) / Mitchfield,NY	C / CPIF	Washington Navy Yard, DC	Jan 2021	Apr 2022	9	2,902.333	Y		
10.7) Navigation SSI Increment 8 Production INS(†)		2022	Lockheed Martin (SSI Increment #8 Inertial Navigation System (INS)) / Mitchfield,NY	C / CPIF	Washington Navy Yard, DC	Nov 2021	Feb 2023	10	2,960.400	Y		
10.7) Navigation SSI Increment 8 Production INS(†)		2023	Lockheed Martin (SSI Increment #8 Inertial Navigation System (INS)) / Mitchfield,NY	C / CPIF	Washington Navy Yard, DC	Oct 2022	Jan 2024	11	2,947.364	Y		
11) SSI Increment 11												
11.5) Launcher SSI Increment 11 Firing Units/Launch Safing Units(†)		2017	NORTHROP GRUMMAN (LIS Firing Units (FUs)/Launch Safing Units (LSUs) / Sunnyvale, CA	C / CPFF	Washington Navy Yard, DC	Nov 2016	Aug 2019	2	1,606.000	Y		
11.5) Launcher SSI Increment 11 Firing Units/Launch Safing Units(†)		2019	NORTHROP GRUMMAN (LIS Firing Units (FUs)/Launch Safing Units (LSUs) / Sunnyvale, CA	C / CPFF	Washington Navy Yard, DC	Feb 2019	Nov 2021	2	1,670.000	Y		
11.5) Launcher SSI Increment 11 Firing Units/Launch Safing Units(†)		2020	NORTHROP GRUMMAN (LIS Firing Units (FUs)/Launch Safing Units (LSUs) / Sunnyvale, CA	C / CPFF	Washington Navy Yard, DC	Nov 2019	Aug 2022	2	1,704.000	Y		
11.5) Launcher SSI Increment 11 Firing Units/Launch Safing Units		2021	NORTHROP GRUMMAN (LIS Firing Units (FUs)/Launch Safing Units (LSUs) / Sunnyvale, CA	C / CPFF	Washington Navy Yard, DC	Nov 2020	Aug 2023	2	1,789.000	Y		
12) SSI Increment 13												
12.5) Navigation SSI Increment 13 SPALT Kit Pre-Production(†)		2018	Lockheed Martin (SSI Increment #13 SPALT) / Mitchfield, NY	C / CPIF	Washington Navy Yard, DC	Jan 2018	Aug 2018	6	536.000	Y		
12.8) Fire Control SSI Increment 13 Electronics Refresh SPALT Kits(†)		2019	General Dynamics (SSI Increment #13 FC Electronic Refresh SPALT Kits) / Pittsfield, MA	C / CPIF	Washington Navy Yard, DC	Oct 2018	Oct 2019	6	2,349.167	Y		
12.8) Fire Control SSI Increment 13 Electronics Refresh SPALT Kits(†)		2020	General Dynamics (SSI Increment #13 FC Electronic Refresh SPALT Kits) / Pittsfield, MA	C / CPIF	Washington Navy Yard, DC	Oct 2019	Oct 2020	6	2,342.833	Y		
12.8) Fire Control SSI Increment 13 Electronics Refresh SPALT Kits(†)		2021	General Dynamics (SSI Increment #13 FC Electronic Refresh SPALT Kits) / Pittsfield, MA	C / CPIF	Washington Navy Yard, DC	Nov 2020	Nov 2021	5	2,825.800	Y		
12.8) Fire Control SSI Increment 13 Electronics Refresh SPALT Kits(†)		2022	General Dynamics (SSI Increment #13 FC Electronic Refresh SPALT Kits) / Pittsfield, MA	C / CPIF	Washington Navy Yard, DC	Nov 2021	Nov 2022	6	1,755.500	Y		
13) SSI Increment 15												
13.3) Fire Control SSI Increment 15 Production (19)		2022	General Dynamics (SSI Increment #13 FC Electronic Refresh SPALT Kits) / Pittsfield, MA	C / CPFF	Washington Navy Yard, DC	Jul 2022	Sep 2023	4	2,172.500	Y		

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
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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 ($ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
13.3) Fire Control SSI Increment 15 Production (19)		2023	General Dynamics (SSI Increment #13 FC Electronic Refresh SPALT Kits) / Pittsfield, MA	C / CPFF	Washington Navy Yard, DC	Oct 2022	Dec 2023	12	769.917	Y		
13.3) Fire Control SSI Increment 15 Production (19)		2024	General Dynamics (SSI Increment #13 FC Electronic Refresh SPALT Kits) / Pittsfield, MA	C / CPFF	Washington Navy Yard, DCWashington Navy Yard, DC	Jan 2024	Jan 2025	5	1,302.800	Y		
13.3) Fire Control SSI Increment 15 Production (19)		2025	General Dynamics (SSI Increment #13 FC Electronic Refresh SPALT Kits) / Pittsfield, MA	C / CPFF	Washington Navy Yard, DC	Jan 2025	Jan 2026	3	1,203.667	Y		

(†) indicates the presence of a P-21

Footnotes:
(27) Formerly known as Alliant Tech Systems

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
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Items (Units in Each)							Fiscal Year 2015												Fiscal Year 2016												BALANCE
							Calendar Year 2015												Calendar Year 2016													
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1) Other Material Support- Launcher and Handling Equipment																															
1.5) Ballast Production																															
	6	2017	NAVY	15	0	15																									15
	6	2018	NAVY	25	0	25																									25
10) SSI Increment 8																															
10.5) Navigation SSI Increment 8 Production Gyroscope [12]																															
	7	2017	NAVY	9	0	9																									9
	7	2018	NAVY	24	0	24																									24
	7	2019	NAVY	31	0	31																									31
	8	2020	NAVY	67	0	67																									67
	8	2021	NAVY	35	0	35																									35
	8	2022	NAVY	44	0	44																									44
10.7) Navigation SSI Increment 8 Production INS																															
	9	2019	NAVY	2	0	2																									2
	9	2021	NAVY	9	0	9																									9
	9	2022	NAVY	10	0	10																									10
	9	2023	NAVY	11	0	11																									11
11) SSI Increment 11																															
11.5) Launcher SSI Increment 11 Firing Units/Launch Safing Units																															
Prior Years Deliveries: 12																															
	10	2017	NAVY	2	0	2																									2
	10	2019	NAVY	2	0	2																									2
	10	2020	NAVY	2	0	2																									2
12) SSI Increment 13																															
12.5) Navigation SSI Increment 13 SPALT Kit Pre-Production																															
	11	2018	NAVY	6	0	6																									6
12.8) Fire Control SSI Increment 13 Electronics Refresh SPALT Kits																															
	12	2019	NAVY	6	0	6																									6
	12	2020	NAVY	6	0	6																									6
	12	2021	NAVY	5	0	5																									5
	12	2022	NAVY	6	0	6																									6
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	**P-1 Line Item Number / Title:** 5358 / Strategic Missile Systems Equip	**Aggregated Items:** Strategic Missile Systems Equip

Items (Units in Each)							Fiscal Year 2017												Fiscal Year 2018											BALANCE
							Calendar Year 2017												Calendar Year 2018											
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1) Other Material Support- Launcher and Handling Equipment																														
1.5) Ballast Production																														
	6	2017	NAVY	15	0	15						A	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	3	0
	6	2018	NAVY	25	0	25																		A	-	-	-	-	-	-	25
10) SSI Increment 8																														
10.5) Navigation SSI Increment 8 Production Gyroscope (12)																														
	7	2017	NAVY	9	0	9								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
	7	2018	NAVY	24	0	24																A	-	-	-	-	-	-	-	-	24
	7	2019	NAVY	31	0	31																									31
	8	2020	NAVY	67	0	67																									67
	8	2021	NAVY	35	0	35																									35
	8	2022	NAVY	44	0	44																									44
10.7) Navigation SSI Increment 8 Production INS																														
	9	2019	NAVY	2	0	2																									2
	9	2021	NAVY	9	0	9																									9
	9	2022	NAVY	10	0	10																									10
	9	2023	NAVY	11	0	11																									11
11) SSI Increment 11																														
11.5) Launcher SSI Increment 11 Firing Units/Launch Safing Units																														
Prior Years Deliveries: 12																														
	10	2017	NAVY	2	0	2		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
	10	2019	NAVY	2	0	2																									2
	10	2020	NAVY	2	0	2																									2
12) SSI Increment 13																														
12.5) Navigation SSI Increment 13 SPALT Kit Pre-Production																														
	11	2018	NAVY	6	0	6																A	-	-	-	-	-	-	1	1	4
12.8) Fire Control SSI Increment 13 Electronics Refresh SPALT Kits																														
	12	2019	NAVY	6	0	6																									6
	12	2020	NAVY	6	0	6																									6
	12	2021	NAVY	5	0	5																									5
	12	2022	NAVY	6	0	6																									6
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	**P-1 Line Item Number / Title:** 5358 / Strategic Missile Systems Equip	**Aggregated Items:** Strategic Missile Systems Equip

Items (Units in Each)							Fiscal Year 2019												Fiscal Year 2020												BALANCE
							Calendar Year 2019												Calendar Year 2020													
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1) Other Material Support- Launcher and Handling Equipment																															
1.5) Ballast Production																															
	6	2017	NAVY	15	15	0																									0
	6	2018	NAVY	25	0	25	-	-	-	-	-	2	2	2	2	2	2	3	3	3	2	2									0
10) SSI Increment 8																															
10.5) Navigation SSI Increment 8 Production Gyroscope (12)																															
	7	2017	NAVY	9	0	9	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1									0
	7	2018	NAVY	24	0	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	6
	7	2019	NAVY	31	0	31		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31
	8	2020	NAVY	67	0	67																A	-	-	-	-	-	-	-	-	67
	8	2021	NAVY	35	0	35																									35
	8	2022	NAVY	44	0	44																									44
10.7) Navigation SSI Increment 8 Production INS																															
	9	2019	NAVY	2	0	2		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1						0
	9	2021	NAVY	9	0	9																									9
	9	2022	NAVY	10	0	10																									10
	9	2023	NAVY	11	0	11																									11
11) SSI Increment 11																															
11.5) Launcher SSI Increment 11 Firing Units/Launch Safing Units																															
Prior Years Deliveries: 12																															
	10	2017	NAVY	2	0	2	-	-	-	-	-	-	-	-	-	-	1	1													0
	10	2019	NAVY	2	0	2					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
	10	2020	NAVY	2	0	2														A	-	-	-	-	-	-	-	-	-	-	2
12) SSI Increment 13																															
12.5) Navigation SSI Increment 13 SPALT Kit Pre-Production																															
	11	2018	NAVY	6	2	4	1	1	1	1																					0
12.8) Fire Control SSI Increment 13 Electronics Refresh SPALT Kits																															
	12	2019	NAVY	6	0	6	A	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1						0
	12	2020	NAVY	6	0	6														A	-	-	-	-	-	-	-	-	-	-	6
	12	2021	NAVY	5	0	5																									5
	12	2022	NAVY	6	0	6																									6
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	**P-1 Line Item Number / Title:** 5358 / Strategic Missile Systems Equip	**Aggregated Items:** Strategic Missile Systems Equip

Items (Units in Each)							Fiscal Year 2021													Fiscal Year 2022												BALANCE
							Calendar Year 2021													Calendar Year 2022													
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1) Other Material Support- Launcher and Handling Equipment																																
1.5) Ballast Production																																
	6	2017	NAVY	15	15	0																										0
	6	2018	NAVY	25	25	0																										0
10) SSI Increment 8																																
10.5) Navigation SSI Increment 8 Production Gyroscope (12)																																
	7	2017	NAVY	9	9	0																										0
	7	2018	NAVY	24	18	6	2	2	2																							0
	7	2019	NAVY	31	0	31	-	-	-	-	3	4	6	6	6	6																0
	8	2020	NAVY	67	0	67	-	-	-	-	-	-	-	-	-	-	-	-	4	7	7	7	7	7	7	7	7	7				0
	8	2021	NAVY	35	0	35				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	21
	8	2022	NAVY	44	0	44														A	-	-	-	-	-	-	-	-	-	-	-	44
10.7) Navigation SSI Increment 8 Production INS																																
	9	2019	NAVY	2	2	0																										0
	9	2021	NAVY	9	0	9				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	2	1	2	0
	9	2022	NAVY	10	0	10														A	-	-	-	-	-	-	-	-	-	-	-	10
	9	2023	NAVY	11	0	11																										11
11) SSI Increment 11																																
11.5) Launcher SSI Increment 11 Firing Units/Launch Safing Units																																
Prior Years Deliveries: 12																																
	10	2017	NAVY	2	2	0																										0
	10	2019	NAVY	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1											0
	10	2020	NAVY	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0
12) SSI Increment 13																																
12.5) Navigation SSI Increment 13 SPALT Kit Pre-Production																																
	11	2018	NAVY	6	6	0																										0
12.8) Fire Control SSI Increment 13 Electronics Refresh SPALT Kits																																
	12	2019	NAVY	6	6	0																										0
	12	2020	NAVY	6	0	6	1	1	1	1	1	1																				0
	12	2021	NAVY	5	0	5		A	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1								0
	12	2022	NAVY	6	0	6														A	-	-	-	-	-	-	-	-	-	-	-	6
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	**P-1 Line Item Number / Title:** 5358 / Strategic Missile Systems Equip	**Aggregated Items:** Strategic Missile Systems Equip

Items (Units in Each)							Fiscal Year 2023																Fiscal Year 2024											BALANCE
							Calendar Year 2023																Calendar Year 2024											
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1) Other Material Support- Launcher and Handling Equipment																																	
1.5) Ballast Production																																	
	6	2017	NAVY	15	15	0																											0
	6	2018	NAVY	25	25	0																											0
10) SSI Increment 8																																	
10.5) Navigation SSI Increment 8 Production Gyroscope (12)																																	
	7	2017	NAVY	9	9	0																											0
	7	2018	NAVY	24	24	0																											0
	7	2019	NAVY	31	31	0																											0
	8	2020	NAVY	67	67	0																											0
	8	2021	NAVY	35	14	21	7	7	7																								0
	8	2022	NAVY	44	0	44	-	-	-	-	-	-	-	7	7	7	7	7	7	2													0
10.7) Navigation SSI Increment 8 Production INS																																	
	9	2019	NAVY	2	2	0																											0
	9	2021	NAVY	9	9	0																											0
	9	2022	NAVY	10	0	10	-	-	-	-	1	1	1	1	1	1	1	1	1	1													0
	9	2023	NAVY	11	0	11	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1		2
11) SSI Increment 11																																	
11.5) Launcher SSI Increment 11 Firing Units/Launch Safing Units																																	
Prior Years Deliveries: 12																																	
	10	2017	NAVY	2	2	0																											0
	10	2019	NAVY	2	2	0																											0
	10	2020	NAVY	2	2	0																											0
12) SSI Increment 13																																	
12.5) Navigation SSI Increment 13 SPALT Kit Pre-Production																																	
	11	2018	NAVY	6	6	0																											0
12.8) Fire Control SSI Increment 13 Electronics Refresh SPALT Kits																																	
	12	2019	NAVY	6	6	0																											0
	12	2020	NAVY	6	6	0																											0
	12	2021	NAVY	5	5	0																											0
	12	2022	NAVY	6	0	6	-	1	1	1	1	1	1																				0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	P-1 Line Item Number / Title: 5358 / Strategic Missile Systems Equip	Aggregated Items: Strategic Missile Systems Equip

Items (Units in Each)							Fiscal Year 2025												Fiscal Year 2026												BALANCE
							Calendar Year 2025												Calendar Year 2026													
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1) Other Material Support- Launcher and Handling Equipment																															
1.5) Ballast Production																															
	6	2017	NAVY	15	15	0																									0
	6	2018	NAVY	25	25	0																									0
10) SSI Increment 8																															
10.5) Navigation SSI Increment 8 Production Gyroscope (12)																															
	7	2017	NAVY	9	9	0																									0
	7	2018	NAVY	24	24	0																									0
	7	2019	NAVY	31	31	0																									0
	8	2020	NAVY	67	67	0																									0
	8	2021	NAVY	35	35	0																									0
	8	2022	NAVY	44	44	0																									0
10.7) Navigation SSI Increment 8 Production INS																															
	9	2019	NAVY	2	2	0																									0
	9	2021	NAVY	9	9	0																									0
	9	2022	NAVY	10	10	0																									0
	9	2023	NAVY	11	9	2	1	1																							0
11) SSI Increment 11																															
11.5) Launcher SSI Increment 11 Firing Units/Launch Safing Units																															
Prior Years Deliveries: 12																															
	10	2017	NAVY	2	2	0																									0
	10	2019	NAVY	2	2	0																									0
	10	2020	NAVY	2	2	0																									0
12) SSI Increment 13																															
12.5) Navigation SSI Increment 13 SPALT Kit Pre-Production																															
	11	2018	NAVY	6	6	0																									0
12.8) Fire Control SSI Increment 13 Electronics Refresh SPALT Kits																															
	12	2019	NAVY	6	6	0																									0
	12	2020	NAVY	6	6	0																									0
	12	2021	NAVY	5	5	0																									0
	12	2022	NAVY	6	6	0																									0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 4	**P-1 Line Item Number / Title:** 5358 / Strategic Missile Systems Equip	**Aggregated Items:** Strategic Missile Systems Equip

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
					Initial				Reorder			
		MSR For 2025	1-8-5 For 2025	MAX For 2025	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Sunnyvale, CA	15	20	25	0	6	0	6	0	6	0	6
2	Lockheed Martin (SSI Increment #8 Gyroscope) - Mitchfield, NY	10	72	96	0	0	24	24	0	0	24	24
3	Lockheed Martin (SSI Increment #8 Gyro Accel) - Mitchfield, NY	36	72	108	0	0	18	18	0	0	18	18
4	Lockheed Martin (SSI Increment #8 Inertial Navigation System (INS)) - Mitchfield,NY	6	12	16	0	0	15	15	0	0	15	15
5	NORTHROP GRUMMAN (LIS Firing Units (FUs)/ Launch Safing Units (LSUs) - Sunnyvale, CA	2	4	15	0	0	12	12	0	0	9	9
6	Lockheed Martin (SSI Increment #13 SPALT) - Mitchfield, NY	3	5	7	0	0	7	7	0	0	7	7
7	General Dynamics (SSI Increment #13 FC Electronic Refresh SPALT Kits) - Pittsfield, MA	2	5	15	0	0	12	12	0	0	12	12

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

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 5: ASW Support Equipment	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604562N

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	1,167.940	128.874	133.063	157.609	0.000	157.609	118.727	126.134	141.652	171.361	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	1,167.940	128.874	133.063	157.609	0.000	157.609	118.727	126.134	141.652	171.361	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**1,167.940**	**128.874**	**133.063**	**157.609**	**0.000**	**157.609**	**118.727**	**126.134**	**141.652**	**171.361**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	2.304	3.899	2.865	-	2.865	-	4.287	4.551	1.779	Continuing	Continuing
Flyaway Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AN/BYG-1 is the combat control system common across all submarine platforms which incorporates tactical control, weapon/payload control and Tactical Local Area Network (TacLAN) functions into a single procurement program. AN/BYG-1 allows the submarine to rapidly update the ship-safety tactical picture, integrates the common tactical picture into the battlegroup, improves torpedo interfaces, and provides tactical TOMAHAWK, Harpoon, and other payload capabilities. AN/BYG-1 systems will be continuously updated with hardware enhancements to address Commercial Off The Shelf (COTS) obsolescence, and provide capability improvements through software upgrades. Hardware updates are referred to as Tech Insertion (TI) kits and are differentiated by year of development (i.e. TI-20, TI-22, TI-24, TI-26, etc.). The TI upgrades provide the baseline for all future AN/BYG-1 procurements. AN/BYG-1 is part of the Submarine Warfare Federated Tactical Systems (SWFTS), a family of interdependent systems that conduct cooperative system development and installations. As a result of this interdependency, AN/BYG-1 installations must be performed in conjunction with the installations of the other SWFTS systems.

VB011 - COMBAT SYSTEMS TECHNOLOGY REFRESH / LEGACY INTEGRATION
Procures Engineering Changes (EC) and Ordnance Alterations (ORDALT) to correct fleet reported problems with fielded AN/BYG-1 software and hardware. Procures Weapons Launch Systems and training systems, including the Multi-tube Weapon Simulator (MTWS) and the Onboard Team Trainer. Provides system engineering in support of TacLAN, and Cybersecurity for AN/BYG-1 authorization and accreditation. Procures Infrastructure COTS H/W in order to enable faster delivery, installation, and updating of developed systems to the warfighter by creating a cyber-resilient environment that links the system developers to the fielded systems. Procures TIH Modernization hardware to allow flexible, efficient utilization of the fielded computing systems, providing the opportunity for dynamic response and recovery when the system is under cyber-attack, and positioning SWFTS to leverage the developing fields of Artificial Intelligence and Machine Learning.

VB034 - SUBMARINE COMBAT CONTROL SYSTEM MODERNIZATION PROGRAM
Procures hardware and software upgrades for AN/BYG-1 system for installation on all submarine platforms. Efforts include pre-production, design, hardware production, and integration. Funds are for the installation of Combat Control System equipment included in the Fleet Modernization Program.

VB800 - ELECTRONIC CHARTING DISPLAY INFORMATION SYSTEM
Procures the Submarine Electronic Charting Display Information System - Navy ECDIS on all U.S. Navy submarine platforms. PEO UWS Submarine Combat and Weapons Control Program Office has program acquisition, contractual, financial, engineering and logistical responsibilities for submarine Navy ECDIS systems. This includes conducting submarine Navy ECDIS integration, integration testing, Navy ECDIS certification, and fielding responsibilities in support of all baselines.

VB995 - PRODUCTION ENGINEERING AND INITIAL TRAINING

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 5: ASW Support Equipment	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0604562N
Line Item MDAP/MAIS Code: N/A		

This cost code procures production and logistics support, assistance for asset management, cost analyses, preparation of contract specifications, monitoring of contract deliverables, contractor cost, schedule and performance monitoring, Integrated Logistics Support (ILS) planning and Government Furnished Information (GFI) coordination. This cost code also provides initial training curriculum development, training management materials, exercise control group development, and pilot services to the Fleet.

VB997 - SSGN SUSTAINING SUPPORT
Provides funding to the Strategic Systems Program (SSP) in support of the Equipment procurement, installation and sustainment required for the life-cycle operational support of SSGN Attack Weapons Systems (AWS) currently on four OHIO-class SSGNs. Funding provides the end-of-life technical refresh of critical components and maintain cyber security posture for to the Attack Weapon Control System (AWCS) and the Attack Weapons System Interface Simulator (AWIS). AWCS technical refresh includes Training Mode Enhancements and updates to Maintenance Interface Network requires an update to the operating system to maintain Missile Technician training on board the SSGN.

VB700 - PAYLOAD PROCUREMENT
Procurement of payloads to include Unmanned Aerial System (UAS) vehicles for integration, verification, and validation. Procurement entails integrated, modified, and tested horizontally and vertically deployed payloads. SLUAS transfers to OPN Line Item 2210 beginning in FY25.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 5: ASW Support Equipment	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A — **Other Related Program Elements:** 0604562N
Line Item MDAP/MAIS Code: N/A	

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	SSN Combat Control Systems	P-5a			- / 617.111	- / 86.262	- / 53.737	- / 68.352	- / -	- / 68.352
P-3a	1 / VB034 SSBN MODERNIZATION TECH INSERTION OHIO CLASS (SSBN CLASS)				- / 0.000	- / 0.000	- / 9.680	- / 18.010	- / 0.000	- / 18.010
P-3a	2 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS (UPGRADE)				- / 38.115	- / 7.942	- / 8.101	- / 6.238	- / 0.000	- / 6.238
P-3a	3 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS (UPGRADE)				- / 314.836	- / 22.246	- / 31.059	- / 4.465	- / 0.000	- / 4.465
P-3a	4 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS (UPGRADE)				- / 147.999	- / 3.569	- / 10.095	- / 12.031	- / 0.000	- / 12.031
P-3a	5 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS W/CWL (UPGRADE)				- / 49.879	- / 8.855	- / 20.391	- / 40.116	- / 0.000	- / 40.116
P-3a	6 / VB034 SSBN MODERNIZATION TECH INSERTION COLUMBIA CLASS (UPGRADE)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-3a	7 / VB034 SSN774 BLK V AND OUT W/ CWL TECH INSERT- PSA INSTALL (UPGRADE)				- / 0.000	- / 0.000	- / 0.000	- / 8.397	- / 0.000	- / 8.397
P-40	**Total Gross/Weapon System Cost**				**- / 1,167.940**	**- / 128.874**	**- / 133.063**	**- / 157.609**	**- / 0.000**	**- / 157.609**

Exhibits Schedule					FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	SSN Combat Control Systems	P-5a			- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / VB034 SSBN MODERNIZATION TECH INSERTION OHIO CLASS (SSBN CLASS)				- / 13.870	- / 11.755	- / 7.265	- / 4.868	Continuing	Continuing
P-3a	2 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS (UPGRADE)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	Continuing	Continuing
P-3a	3 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS (UPGRADE)				- / 0.000	- / 6.917	- / 13.088	- / 4.878	Continuing	Continuing
P-3a	4 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS (UPGRADE)				- / 8.525	- / 12.753	- / 17.734	- / 13.143	Continuing	Continuing
P-3a	5 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS W/CWL (UPGRADE)				- / 32.476	- / 19.228	- / 23.427	- / 57.310	Continuing	Continuing
P-3a	6 / VB034 SSBN MODERNIZATION TECH INSERTION COLUMBIA CLASS (UPGRADE)				- / 0.000	- / 8.829	- / 5.317	- / 9.288	Continuing	Continuing
P-3a	7 / VB034 SSN774 BLK V AND OUT W/ CWL TECH INSERT- PSA INSTALL (UPGRADE)				- / 14.967	- / 15.329	- / 24.756	- / 32.163	Continuing	Continuing
P-40	**Total Gross/Weapon System Cost**				**- / 118.727**	**- / 126.134**	**- / 141.652**	**- / 171.361**	**Continuing**	**Continuing**

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 5: ASW Support Equipment	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** 0604562N
Line Item MDAP/MAIS Code: N/A		

Justification:
FY 2025 funding supports the procurement of shipsets, and installations of shipsets procured in FY 2024. Specifically, FY 2025 procures two (2) SSBN OHIO Class, and four (4) SSN 774 Class w/ CWL.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Aggregated Items Title:** SSN Combat Control Systems

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) VB011: COMBAT SYSTEM TECH REFRESH/LEGACY INTEGRATION																				
1.1) VB011: ECP/ AUXILLARY EQUIPMENT / LEGACY INTEGRATION	A		-	-	18.813	-	-	2.338	-	-	2.386	-	-	2.432	-	-	-	-	-	2.432
1.2) VB011: WEAPON LAUNCH SYSTEMS TECH INSERTION (1)	A		-	-	129.474	-	-	11.757	-	-	11.993	-	-	28.484	-	-	-	-	-	28.484
1.3) VB011: TACLAN/ IA	A		-	-	205.786	-	-	14.070	-	-	14.351	-	-	14.638	-	-	-	-	-	14.638
1.4) VB011: INFRASTRUCTURE COTS HARDWARE	A		-	-	16.236	-	-	16.491	-	-	-	-	-	2.097	-	-	-	-	-	2.097
1.5) VB011: TIH MODERNIZATION (2)	A		-	-	28.068	-	-	32.160	-	-	12.467	-	-	14.573	-	-	-	-	-	14.573
Subtotal: 1) VB011: COMBAT SYSTEM TECH REFRESH/LEGACY INTEGRATION			**-**	**-**	***398.377***	**-**	**-**	***76.816***	**-**	**-**	***41.197***	**-**	**-**	***62.224***	**-**	**-**	**-**	**-**	**-**	***62.224***
2) VB800: ELECTRONIC CHARTING DISPLAY INFORMATION SYSTEM																				
2.1) VB800: ELECTRONIC CHARTING DISPLAY INFORMATION SYSTEM	A		-	-	23.157	-	-	3.616	-	-	3.688	-	-	3.761	-	-	-	-	-	3.761
Subtotal: 2) VB800: ELECTRONIC CHARTING DISPLAY INFORMATION SYSTEM			**-**	**-**	***23.157***	**-**	**-**	***3.616***	**-**	**-**	***3.688***	**-**	**-**	***3.761***	**-**	**-**	**-**	**-**	**-**	***3.761***
3) VB995: PRODUCTION ENGINEERING AND INITIAL TRAINING																				
3.1) VB995: PRODUCTION ENGINEERING AND INITIAL TRAINING	A		-	-	70.887	-	-	1.901	-	-	1.939	-	-	1.977	-	-	-	-	-	1.977
Subtotal: 3) VB995: PRODUCTION ENGINEERING AND INITIAL TRAINING			**-**	**-**	***70.887***	**-**	**-**	***1.901***	**-**	**-**	***1.939***	**-**	**-**	***1.977***	**-**	**-**	**-**	**-**	**-**	***1.977***
4) VB997: SSGN SUSTAINING SUPPORT																				
4.1) VB997: SSGN SUSTAINING SUPPORT (3)	A		-	-	110.721	-	-	1.034	-	-	1.055	-	-	0.390	-	-	-	-	-	0.390
Subtotal: 4) VB997: SSGN SUSTAINING SUPPORT			**-**	**-**	***110.721***	**-**	**-**	***1.034***	**-**	**-**	***1.055***	**-**	**-**	***0.390***	**-**	**-**	**-**	**-**	**-**	***0.390***
5) VB700: PAYLOAD PROCUREMENT																				

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Aggregated Items Title:** SSN Combat Control Systems

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
			Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)
5.1) VB700: PAYLOAD PROCUREMENT (4)(†)	A		931,266.67	15	13.969	965,000.00	3	2.895	976,333.00	6	5.858	-	-	-	-	-	-	-	-	-
Subtotal: 5) VB700: PAYLOAD PROCUREMENT			**-**	**-**	***13.969***	**-**	**-**	***2.895***	**-**	**-**	***5.858***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total			**-**	**-**	**617.111**	**-**	**-**	**86.262**	**-**	**-**	**53.737**	**-**	**-**	**68.352**	**-**	**-**	**-**	**-**	**-**	**68.352**

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

(†) indicates the presence of a P-5a

Footnotes:

(1) The Navy increased funding in FY25 for Weapons Launch Systems Tech Insertion to procure long lead material for the Common Weapon Launcher. Supply chain delays have increased the lead time for multiple CWL components necessitating the procurement of those components well in advance in order to meet current fleet installation schedules.

(2) The Navy increased funding in FY25 for TIH MODERNIZATION to continue to provide improvements for the Common Computing Environment and to improve cybersecurity via a Resiliency Cluster Environment that will allow the Fleet to respond to a cyberattack while still executing their mission.

(3) The decrease in funding to the Strategic Systems Program (SSP) SSGN support line is due to a funding realignment from OPN to OMN. The SSGN platform is coming to the end of its useful life and this funding realignment is necessary to keep the SSGN platforms operational and provide for maintenance required for the SSGN aging equipment.

(4) In FY25 funding for VB700 moves to OPN Line Item 2210 of PMS 415's budget as the Program Office responsible for execution of the Submarine Launched Unmanned Aerial System.

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	P-1 Line Item Number / Title: 5420 / SSN Combat Control Systems	Aggregated Items: SSN Combat Control Systems

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
5) VB700: PAYLOAD PROCUREMENT												
5.1) VB700: PAYLOAD PROCUREMENT (4)		2020	NAVSEA / Washington, DC	WR	** NO PCO **	Nov 2019	May 2020	3	909,309.60	N	Oct 2019	
5.1) VB700: PAYLOAD PROCUREMENT (4)		2021	NAVSEA / Washington, DC	WR	** NO PCO **	Nov 2021	May 2022	6	927,495.80	N	Oct 2020	
5.1) VB700: PAYLOAD PROCUREMENT (4)		2022	Sparton/Aerovironment / De leon Springs, FL /Simi Valley, CA	C / IDIQ	NAVSEA, Washington DC	Nov 2021	May 2022	6	946,045.70	N	Oct 2021	
5.1) VB700: PAYLOAD PROCUREMENT (4)		2023	Sparton/Aerovironment / De leon Springs, FL /Simi Valley, CA	C / IDIQ	NAVSEA, Washington DC	Nov 2022	May 2023	3	965,000.00	N	Oct 2022	
5.1) VB700: PAYLOAD PROCUREMENT (4)		2024	TBD/TBD / UNKNOWN	C / IDIQ	NAVSEA, Washington DC	Nov 2023	May 2024	6	976,333.00	N	Oct 2023	

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 1 / VB034 SSBN MODERNIZATION TECH INSERTION OHIO CLASS

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	0.000	0.000	9.680	18.010	0.000	18.010	13.870	11.755	7.265	4.868	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	0.000	0.000	9.680	18.010	0.000	18.010	13.870	11.755	7.265	4.868	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**0.000**	**0.000**	**9.680**	**18.010**	**0.000**	**18.010**	**13.870**	**11.755**	**7.265**	**4.868**	**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:
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 1 / VB034 SSBN MODERNIZATION TECH INSERTION OHIO CLASS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: VB034 SSBN MODERNIZATION TECH INSERTION OHIO CLASS	**Modification Type:** SSBN CLASS	**Related RDT&E PEs:** 0604562N

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: VB034 SSBN MODERNIZATION TECH INSERTION OHIO CLASS												
B Kits												
Recurring												
1.1.1) EQUIPMENT - NonOrganic [5]	- / -	- / -	3 / 5.635	2 / 4.641	- / -	2 / 4.641	2 / 4.759	1 / 2.441	1 / 2.503	- / -	Continuing	Continuing
Subtotal: Recurring	*- / 0.000*	*- / -*	*- / 5.635*	*- / 4.641*	*- / -*	*- / 4.641*	*- / 4.759*	*- / 2.441*	*- / 2.503*	*- / -*	*Continuing*	*Continuing*
Subtotal: VB034 SSBN MODERNIZATION TECH INSERTION OHIO CLASS	*- / -*	*- / -*	*3 / 5.635*	*2 / 4.641*	*- / -*	*2 / 4.641*	*2 / 4.759*	*1 / 2.441*	*1 / 2.503*	*- / -*	*Continuing*	*Continuing*
Subtotal: Procurement, All Modification Items	*- / 0.000*	*- / -*	*- / 5.635*	*- / 4.641*	*- / -*	*- / 4.641*	*- / 4.759*	*- / 2.441*	*- / 2.503*	*- / -*	*Continuing*	*Continuing*
Installation												
Modification Item 1 of 1: VB034 SSBN MODERNIZATION TECH INSERTION OHIO CLASS	- / 0.000	- / 0.000	- / 4.045	- / 13.369	- / 0.000	- / 13.369	- / 9.111	- / 9.314	- / 4.762	- / 4.868	- / 0.000	- / 45.469
Subtotal: Installation	*- / 0.000*	*- / -*	*- / 4.045*	*- / 13.369*	*- / -*	*- / 13.369*	*- / 9.111*	*- / 9.314*	*- / 4.762*	*- / 4.868*	*- / 0.000*	*- / 45.469*
Total												
Total Cost (Procurement + Support + Installation)	**0.000**	**0.000**	**9.680**	**18.010**	**0.000**	**18.010**	**13.870**	**11.755**	**7.265**	**4.868**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 1 / VB034 SSBN MODERNIZATION TECH INSERTION OHIO CLASS

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: VB034 SSBN MODERNIZATION TECH INSERTION OHIO CLASS

Manufacturer Information

Manufacturer Name: VARIOUS	Manufacturer Location: Various
Administrative Leadtime *(in Months)*: 6	Production Leadtime *(in Months)*: 18

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates		Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028	Jan 2029
Delivery Dates		Jul 2025	Jul 2026	Jul 2027	Jul 2028	Jul 2029	Jul 2030

Installation Information

Method of Implementation: AIT:: Installation Name: EQUIPMENT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	1 / 4.045	3 / 13.369	0 / 0.000	3 / 13.369	- / -	- / -	- / -	- / -	0 / 0.000	4 / 17.414
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	2 / 9.111	- / -	- / -	- / -	0 / 0.000	2 / 9.111
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 9.314	- / -	- / -	0 / 0.000	2 / 9.314
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.762	- / -	0 / 0.000	1 / 4.762
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.868	0 / 0.000	1 / 4.868
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	1 / 4.045	3 / 13.369	0 / 0.000	3 / 13.369	2 / 9.111	2 / 9.314	1 / 4.762	1 / 4.868	0 / 0.000	10 / 45.469

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	-	-	-	2	-	-	-	1	-	-	-	1	-	10
Out	-	-	-	-	-	-	-	-	1	-	-	-	3	-	-	-	2	-	-	-	2	-	-	-	1	-	-	-	1	-	10

Footnotes:

(5) In FY25 unit procurement costs increased due to market volatility and limited system component availability for the servers and switches which make up the AN/BYG-1 system. High demand and limited supply have increased overall cost for servers and switches; the Navy has done market research to try and find components which meet system requirements at a lower cost but has not been able to fully mitigate the impacts of market volatility.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 2 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	38.115	7.942	8.101	6.238	0.000	6.238	0.000	0.000	0.000	0.000	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	38.115	7.942	8.101	6.238	0.000	6.238	0.000	0.000	0.000	0.000	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**38.115**	**7.942**	**8.101**	**6.238**	**0.000**	**6.238**	**0.000**	**0.000**	**0.000**	**0.000**	**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:
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 2 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS	**Modification Type:** UPGRADE	**Related RDT&E PEs:** 0604562N

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS												
B Kits												
Recurring												
1.1.1) EQUIPMENT - NonOrganic	7 / 18.883	1 / 2.390	1 / 2.438	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
Subtotal: Recurring	*- / 18.883*	*- / 2.390*	*- / 2.438*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*Continuing*	*Continuing*
Subtotal: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS	*7 / 18.883*	*1 / 2.390*	*1 / 2.438*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*Continuing*	*Continuing*
Subtotal: Procurement, All Modification Items	*- / 18.883*	*- / 2.390*	*- / 2.438*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*Continuing*	*Continuing*
Installation												
Modification Item 1 of 1: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS	- / 19.232	- / 5.552	- / 5.663	- / 6.238	- / 0.000	- / 6.238	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 36.685
Subtotal: Installation	*- / 19.232*	*- / 5.552*	*- / 5.663*	*- / 6.238*	*- / -*	*- / 6.238*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 0.000*	*- / 36.685*
Total												
Total Cost (Procurement + Support + Installation)	**38.115**	**7.942**	**8.101**	**6.238**	**0.000**	**6.238**	**0.000**	**0.000**	**0.000**	**0.000**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 2 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN21 CLASS

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime *(in Months)*: 6	Production Leadtime *(in Months)*: 18

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates	Mar 2023	Jan 2024					
Delivery Dates	Mar 2024	Jul 2025					

Installation Information

Method of Implementation: AIT:: Installation Name: EQUIPMENT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 19.232	1 / 5.552	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	7 / 24.784
FY 2023	- / -	- / -	1 / 5.663	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 5.663
FY 2024	- / -	- / -	- / -	1 / 6.238	0 / 0.000	1 / 6.238	- / -	- / -	- / -	- / -	0 / 0.000	1 / 6.238
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	6 / 19.232	1 / 5.552	1 / 5.663	1 / 6.238	0 / 0.000	1 / 6.238	- / -	- / -	- / -	- / -	0 / 0.000	9 / 36.685

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Out	6	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 3 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	314.836	22.246	31.059	4.465	0.000	4.465	0.000	6.917	13.088	4.878	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	314.836	22.246	31.059	4.465	0.000	4.465	0.000	6.917	13.088	4.878	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**314.836**	**22.246**	**31.059**	**4.465**	**0.000**	**4.465**	**0.000**	**6.917**	**13.088**	**4.878**	**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:
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 3 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS	**Modification Type:** UPGRADE	**Related RDT&E PEs:** 0604562N

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS												
B Kits												
Recurring												
1.1.1) EQUIPMENT - NonOrganic	55 / 160.003	7 / 18.272	1 / 2.662	- / -	- / -	- / -	- / -	2 / 6.917	1 / 3.547	- / -	Continuing	Continuing
Subtotal: Recurring	*- / 160.003*	*- / 18.272*	*- / 2.662*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 6.917*	*- / 3.547*	*- / -*	*Continuing*	*Continuing*
Subtotal: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS	*55 / 160.003*	*7 / 18.272*	*1 / 2.662*	*- / -*	*- / -*	*- / -*	*- / -*	*2 / 6.917*	*1 / 3.547*	*- / -*	*Continuing*	*Continuing*
Subtotal: Procurement, All Modification Items	*- / 160.003*	*- / 18.272*	*- / 2.662*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 6.917*	*- / 3.547*	*- / -*	*Continuing*	*Continuing*
Installation												
Modification Item 1 of 1: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS	- / 154.833	- / 3.974	- / 28.397	- / 4.465	- / 0.000	- / 4.465	- / 0.000	- / 0.000	- / 9.541	- / 4.878	- / 0.000	- / 206.088
Subtotal: Installation	*- / 154.833*	*- / 3.974*	*- / 28.397*	*- / 4.465*	*- / -*	*- / 4.465*	*- / -*	*- / -*	*- / 9.541*	*- / 4.878*	*- / 0.000*	*- / 206.088*
Total												
Total Cost (Procurement + Support + Installation)	**314.836**	**22.246**	**31.059**	**4.465**	**0.000**	**4.465**	**0.000**	**6.917**	**13.088**	**4.878**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 3 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 1 of 1: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN688 CLASS

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime *(in Months)*: 6	Production Leadtime *(in Months)*: 18

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates	Mar 2023	Jan 2024		Jan 2026	Jan 2027	Jan 2028	
Delivery Dates	Mar 2024	Jul 2025		Jul 2027	Jul 2028	Jul 2029	

Installation Information

Method of Implementation: AIT:: Installation Name: EQUIPMENT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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	54 / 154.833	1 / 3.974	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	55 / 158.807
FY 2023	- / -	- / -	7 / 28.397	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	7 / 28.397
FY 2024	- / -	- / -	- / -	1 / 4.465	0 / 0.000	1 / 4.465	- / -	- / -	- / -	- / -	0 / 0.000	1 / 4.465
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 9.541	- / -	0 / 0.000	2 / 9.541
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.878	0 / 0.000	1 / 4.878
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	54 / 154.833	1 / 3.974	7 / 28.397	1 / 4.465	0 / 0.000	1 / 4.465	- / -	- / -	2 / 9.541	1 / 4.878	0 / 0.000	66 / 206.088

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	54	-	1	-	-	-	3	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	66
Out	54	-	-	1	-	-	-	3	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	66

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 4 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	147.999	3.569	10.095	12.031	0.000	12.031	8.525	12.753	17.734	13.143	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	147.999	3.569	10.095	12.031	0.000	12.031	8.525	12.753	17.734	13.143	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**147.999**	**3.569**	**10.095**	**12.031**	**0.000**	**12.031**	**8.525**	**12.753**	**17.734**	**13.143**	**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:
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 4 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS	**Modification Type:** UPGRADE	**Related RDT&E PEs:** 0604562N

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS												
B Kits												
Recurring												
1.1.1) EQUIPMENT - NonOrganic	18 / 112.128	- / -	3 / 10.095	- / -	- / -	- / -	2 / 8.525	1 / 4.371	3 / 13.449	- / -	Continuing	Continuing
Subtotal: Recurring	*- / 112.128*	*- / -*	*- / 10.095*	*- / -*	*- / -*	*- / -*	*- / 8.525*	*- / 4.371*	*- / 13.449*	*- / -*	*Continuing*	*Continuing*
Subtotal: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS	*18 / 112.128*	*- / -*	*3 / 10.095*	*- / -*	*- / -*	*- / -*	*2 / 8.525*	*1 / 4.371*	*3 / 13.449*	*- / -*	*Continuing*	*Continuing*
Subtotal: Procurement, All Modification Items	*- / 112.128*	*- / -*	*- / 10.095*	*- / -*	*- / -*	*- / -*	*- / 8.525*	*- / 4.371*	*- / 13.449*	*- / -*	*Continuing*	*Continuing*
Installation												
Modification Item 1 of 1: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS	- / 35.871	- / 3.569	- / 0.000	- / 12.031	- / 0.000	- / 12.031	- / 0.000	- / 8.382	- / 4.285	- / 13.143	- / 0.000	- / 77.281
Subtotal: Installation	*- / 35.871*	*- / 3.569*	*- / -*	*- / 12.031*	*- / -*	*- / 12.031*	*- / -*	*- / 8.382*	*- / 4.285*	*- / 13.143*	*- / 0.000*	*- / 77.281*
Total												
Total Cost (Procurement + Support + Installation)	**147.999**	**3.569**	**10.095**	**12.031**	**0.000**	**12.031**	**8.525**	**12.753**	**17.734**	**13.143**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 4 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 1 of 1: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime *(in Months)*: 6	Production Leadtime *(in Months)*: 18

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates		Jan 2024		Jan 2026	Jan 2027	Jan 2028	Jan 2029
Delivery Dates		Jul 2025		Jul 2027	Jul 2028	Jul 2029	Jul 2030

Installation Information

Method of Implementation: AIT:: Installation Name: EQUIPMENT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 35.871	1 / 3.569	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	18 / 39.440
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	3 / 12.031	0 / 0.000	3 / 12.031	- / -	- / -	- / -	- / -	0 / 0.000	3 / 12.031
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 8.382	- / -	- / -	0 / 0.000	2 / 8.382
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.285	- / -	0 / 0.000	1 / 4.285
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 13.143	0 / 0.000	3 / 13.143
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	17 / 35.871	1 / 3.569	- / -	3 / 12.031	0 / 0.000	3 / 12.031	- / -	2 / 8.382	1 / 4.285	3 / 13.143	0 / 0.000	27 / 77.281

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	-	1	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	3	-	27
Out	17	-	-	1	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	3	-	27

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 5 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS W/ CWL
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	49.879	8.855	20.391	40.116	0.000	40.116	32.476	19.228	23.427	57.310	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	49.879	8.855	20.391	40.116	0.000	40.116	32.476	19.228	23.427	57.310	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**49.879**	**8.855**	**20.391**	**40.116**	**0.000**	**40.116**	**32.476**	**19.228**	**23.427**	**57.310**	**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:

This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software and Common Weapon Launcher (CWL).

SSN774 Class w/ CWL costs are greater than the costs for SSN774 Class (without CWL) due to the fact that CWL brings additional weapon launch interface hardware that allows AN/BYG-1 to communicate with the weapon launchers and the weapons. The CWL hardware requires additional ship alterations, installation procedures, installation verification procedures, cabling, and manpower.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 5 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS W/ CWL
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS W/ CWL	**Modification Type:** UPGRADE	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS W/CWL												
B Kits												
Recurring												
1.1.1) EQUIPMENT - NonOrganic [(6)]	4 / 41.215	- / -	3 / 20.391	3 / 25.191	- / -	3 / 25.191	2 / 17.220	1 / 8.829	2 / 18.110	5 / 46.441	Continuing	Continuing
Subtotal: Recurring	*- / 41.215*	*- / -*	*- / 20.391*	*- / 25.191*	*- / -*	*- / 25.191*	*- / 17.220*	*- / 8.829*	*- / 18.110*	*- / 46.441*	*Continuing*	*Continuing*
Subtotal: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS W/CWL	*4 / 41.215*	*- / -*	*3 / 20.391*	*3 / 25.191*	*- / -*	*3 / 25.191*	*2 / 17.220*	*1 / 8.829*	*2 / 18.110*	*5 / 46.441*	*Continuing*	*Continuing*
Subtotal: Procurement, All Modification Items	*- / 41.215*	*- / -*	*- / 20.391*	*- / 25.191*	*- / -*	*- / 25.191*	*- / 17.220*	*- / 8.829*	*- / 18.110*	*- / 46.441*	*Continuing*	*Continuing*
Installation												
Modification Item 1 of 1: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS W/CWL	- / 8.664	- / 8.855	- / 0.000	- / 14.925	- / 0.000	- / 14.925	- / 15.256	- / 10.399	- / 5.317	- / 10.869	- / 27.717	- / 102.002
Subtotal: Installation	*- / 8.664*	*- / 8.855*	*- / -*	*- / 14.925*	*- / -*	*- / 14.925*	*- / 15.256*	*- / 10.399*	*- / 5.317*	*- / 10.869*	*- / 27.717*	*- / 102.002*
Total												
Total Cost (Procurement + Support + Installation)	**49.879**	**8.855**	**20.391**	**40.116**	**0.000**	**40.116**	**32.476**	**19.228**	**23.427**	**57.310**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 5 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS W/ CWL

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

Modification Item 1 of 1: VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS W/CWL

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime *(in Months)*: 6	Production Leadtime *(in Months)*: 18

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates		Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028	Jan 2029
Delivery Dates		Jul 2025	Jul 2026	Jul 2027	Jul 2028	Jul 2029	Jul 2030

Installation Information

Method of Implementation: AIT:: Installation Name: EQUIPMENT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 8.664	2 / 8.855	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	4 / 17.519
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	3 / 14.925	0 / 0.000	3 / 14.925	- / -	- / -	- / -	- / -	0 / 0.000	3 / 14.925
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	3 / 15.256	- / -	- / -	- / -	0 / 0.000	3 / 15.256
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 10.399	- / -	- / -	0 / 0.000	2 / 10.399
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.317	- / -	0 / 0.000	1 / 5.317
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 10.869	0 / 0.000	2 / 10.869
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 27.717	5 / 27.717
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 8.664	2 / 8.855	- / -	3 / 14.925	0 / 0.000	3 / 14.925	3 / 15.256	2 / 10.399	1 / 5.317	2 / 10.869	5 / 27.717	20 / 102.002

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-	-	2	-	-	-	1	-	-	-	2	5	20
Out	2	-	-	1	1	-	-	-	-	-	-	-	3	-	-	-	3	-	-	-	2	-	-	-	1	-	-	-	2	5	20

Footnotes:

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 5 / VB034 UPGRADES FROM TI04 AND OUT BASELINE SSN774 CLASS W/ CWL
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

(6) In FY25 unit procurement costs increased due to market volatility and limited system component availability for the servers and switches which make up the AN/BYG-1 system. High demand and limited supply have increased overall cost for servers and switches; the Navy has done market research to try and find components which meet system requirements at a lower cost but has not been able to fully mitigate the impacts of market volatility.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 6 / VB034 SSBN MODERNIZATION TECH INSERTION COLUMBIA CLASS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.829	5.317	9.288	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.829	5.317	9.288	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**8.829**	**5.317**	**9.288**	**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:
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 6 / VB034 SSBN MODERNIZATION TECH INSERTION COLUMBIA CLASS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: VB034 SSBN MODERNIZATION TECH INSERTION COLUMBIA CLASS	**Modification Type:** UPGRADE	**Related RDT&E PEs:** 0604562N

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: VB034 SSBN MODERNIZATION TECH INSERTION COLUMBIA CLASS												
B Kits												
Recurring												
1.1.1) EQUIPMENT - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.829	- / -	1 / 9.288	Continuing	Continuing
Subtotal: Recurring	*- / 0.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 8.829*	*- / -*	*- / 9.288*	*Continuing*	*Continuing*
Subtotal: VB034 SSBN MODERNIZATION TECH INSERTION COLUMBIA CLASS	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*1 / 8.829*	*- / -*	*1 / 9.288*	*Continuing*	*Continuing*
Subtotal: Procurement, All Modification Items	*- / 0.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 8.829*	*- / -*	*- / 9.288*	*Continuing*	*Continuing*
Installation												
Modification Item 1 of 1: VB034 SSBN MODERNIZATION TECH INSERTION COLUMBIA CLASS	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 5.317	- / 0.000	- / 5.544	- / 10.861
Subtotal: Installation	*- / 0.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 5.317*	*- / -*	*- / 5.544*	*- / 10.861*
Total												
Total Cost (Procurement + Support + Installation)	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**8.829**	**5.317**	**9.288**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 6 / VB034 SSBN MODERNIZATION TECH INSERTION COLUMBIA CLASS
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 1 of 1: VB034 SSBN MODERNIZATION TECH INSERTION COLUMBIA CLASS

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: VARIOUS
Administrative Leadtime *(in Months)*: 6	Production Leadtime *(in Months)*: 18

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates					Jan 2027		Jan 2029
Delivery Dates					Jul 2028		Jul 2030

Installation Information

Method of Implementation: AIT:: Installation Name: EQUIPMENT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.317	- / -	0 / 0.000	1 / 5.317
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.544	1 / 5.544
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 5.317	- / -	1 / 5.544	2 / 10.861

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 7 / VB034 SSN774 BLK V AND OUT W/ CWL TECH INSERT- PSA INSTALL
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	0.000	0.000	0.000	8.397	0.000	8.397	14.967	15.329	24.756	32.163	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	0.000	0.000	0.000	8.397	0.000	8.397	14.967	15.329	24.756	32.163	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**0.000**	**0.000**	**0.000**	**8.397**	**0.000**	**8.397**	**14.967**	**15.329**	**24.756**	**32.163**	**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:
This program will provide submarine combat control systems with COTS-based upgrades to combat control and tactical control hardware and software.
SSN 774 BLK V w/CWL installations costs during a PSA are greater due to increased costs incurred for shipyard services, additional industrial work scheduling and installation efforts, increased installation verification efforts, and additional certification workload.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 7 / VB034 SSN774 BLK V AND OUT W/ CWL TECH INSERT- PSA INSTALL
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: VB034 SSN774 BLK V AND OUT W/ CWL TECH INSERT- PSA INSTALL	**Modification Type:** UPGRADE	**Related RDT&E PEs:** 0604562N

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: VB034 SSN774 BLK V AND OUT W/ CWL TECH INSERT- PSA INSTALL												
B Kits												
Recurring												
1.1.1) EQUIPMENT - NonOrganic	- / -	- / -	- / -	1 / 8.397	- / -	1 / 8.397	1 / 8.610	1 / 8.829	2 / 18.110	2 / 18.576	Continuing	Continuing
Subtotal: Recurring	*- / 0.000*	*- / -*	*- / -*	*- / 8.397*	*- / -*	*- / 8.397*	*- / 8.610*	*- / 8.829*	*- / 18.110*	*- / 18.576*	*Continuing*	*Continuing*
Subtotal: VB034 SSN774 BLK V AND OUT W/ CWL TECH INSERT- PSA INSTALL	*- / -*	*- / -*	*- / -*	*1 / 8.397*	*- / -*	*1 / 8.397*	*1 / 8.610*	*1 / 8.829*	*2 / 18.110*	*2 / 18.576*	*Continuing*	*Continuing*
Subtotal: Procurement, All Modification Items	*- / 0.000*	*- / -*	*- / -*	*- / 8.397*	*- / -*	*- / 8.397*	*- / 8.610*	*- / 8.829*	*- / 18.110*	*- / 18.576*	*Continuing*	*Continuing*
Installation												
Modification Item 1 of 1: VB034 SSN774 BLK V AND OUT W/ CWL TECH INSERT- PSA INSTALL	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 6.357	- / 6.500	- / 6.646	- / 13.587	- / 13.858	- / 46.948
Subtotal: Installation	*- / 0.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 6.357*	*- / 6.500*	*- / 6.646*	*- / 13.587*	*- / 13.858*	*- / 46.948*
Total												
Total Cost (Procurement + Support + Installation)	**0.000**	**0.000**	**0.000**	**8.397**	**0.000**	**8.397**	**14.967**	**15.329**	**24.756**	**32.163**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5420 / SSN Combat Control Systems	**Modification Number / Title:** 7 / VB034 SSN774 BLK V AND OUT W/ CWL TECH INSERT- PSA INSTALL
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 1 of 1: VB034 SSN774 BLK V AND OUT W/ CWL TECH INSERT- PSA INSTALL

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime *(in Months)*: 6	Production Leadtime *(in Months)*: 18

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates			Jan 2025	Jan 2026	Jan 2027	Jan 2028	Jan 2029
Delivery Dates			Jul 2026	Jul 2027	Jul 2028	Jul 2029	Jul 2030

Installation Information

Method of Implementation: AIT:: Installation Name: EQUIPMENT

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	1 / 6.357	- / -	- / -	- / -	0 / 0.000	1 / 6.357
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 6.500	- / -	- / -	0 / 0.000	1 / 6.500
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 6.646	- / -	0 / 0.000	1 / 6.646
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 13.587	0 / 0.000	2 / 13.587
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 13.858	2 / 13.858
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 6.357	1 / 6.500	1 / 6.646	2 / 13.587	2 / 13.858	7 / 46.948

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	7
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	2	2	7

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Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 5: ASW Support Equipment	**P-1 Line Item Number / Title:** 5429 / ASW Support Equipment

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	183.507	35.720	27.469	25.362	0.000	25.362	25.973	26.493	27.023	27.581	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	183.507	35.720	27.469	25.362	0.000	25.362	25.973	26.493	27.023	27.581	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**183.507**	**35.720**	**27.469**	**25.362**	**0.000**	**25.362**	**25.973**	**26.493**	**27.023**	**27.581**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This Budget Line Item (BLI) consists of three separate and distinct programs, the Submarine Weapons Launching and Handling Support Equipment program, the Surface ASW Support Equipment program, and the ASW Range Support Equipment program.

SUBMARINE WEAPONS LAUNCHING AND HANDLING SUPPORT EQUIPMENT (Cost Codes VC000/VC830/VC5IN): Funding for modifications and improvements to SSN 688, SSBN 726 and SSN 21 classes Attack and Ballistic Missile Submarine weapons launching, stowage and shipping systems, torpedo tube system components and torpedo tube test equipment. These requirements arise as a result of the introduction of new or modified weapons, devices, and sensors and their subsequent evaluation test and operational use. Also procured are reliability, maintainability, functional and safety modifications and tactical improvements resulting from operational use experience. This funding also provides management services required for installations.

SURFACE ASW SUPPORT EQUIPMENT (Cost Codes VC008/VC009/VC900/VC6IN/VC010): Funding provides for the procurement and fielding of safety modifications through the Ordnance Alteration (ORDALT) process to Anti-Submarine Warfare (ASW) Fire Control, Surface Vessel Torpedo Tube (SVTT), and related ASW Fire Control/SVTT support and test equipment to maintain the current performance envelope. ORDALT procurements are highly variable and dependent on shipboard configurations and equipment age. Included in this line item are all related procurements for training and simulation equipment required for the continued operation of this equipment. Modification requirements arise based on Reliability, Maintainability and Availability (RM&A) metrics and as a result of evaluation, testing, and Fleet use of existing, new, or modified ASW weapons and/or related systems and subsystems. Funding also provides for the upgrade of a major subsystem of the SVTT, the MK 432 Test Set Torpedo Presetter (TSTP), which provides the Fleet the capability to simulate presetting, mode, and launch verification by emulating all surface lightweight torpedo types and is also employed as an enhanced troubleshooting tool during launcher, Undersea Warfare (USW) Fire Control, and system casualty events. Funding also provides for the fielding of the next generation AN/UQN-10 Sonar Sounding Set Fathometer as a Commercial-Off-The-Shelf (COTS) retrofit/replacement of legacy AN/UQN-4/4A systems on Destroyer (DDG51 Class), Aircraft Carrier (CVN Class), and Amphibious (LHA, LHD, LPD, LSD, LCC) platforms, and also the non-recurring engineering (NRE) effort required to upgrade acoustic communications and convert non-program of record fathometers and transducers employed on Littoral Combat Ship (LCS) and DDG1000 platforms to the common program of record AN/UQN-10 Sonar Sounding Set Fathometer and TR-355 transducer.

ASW RANGE SUPPORT EQUIPMENT (Cost Codes VC001/VC002/VC003/VC004/VC005/VC831/VC832/VC851/VC970): ASW range support equipment includes self-propelled surface targets, towed surface targets, and associated target augmentation to mimic threats and/or provide feedback. Self-propelled surface targets include the High Speed Maneuverable Surface Target (HSMST), Seaborne Powered Target (SEPTAR) and Fast Attack Craft Target (FACT). Towed surface targets include the Low Cost Modular Target (LCMT) and Polyethylene Tow Target (PETT). Funding is also for the procurement of underwater tracking and shore equipment, Test and Evaluation (T&E), acoustic trial range equipment, and weapon system and test equipment. Equipment procured includes instrumentation for U.S. Fleet Operational Readiness Accuracy Check Sites (FORACS) Program, equipment required to conduct fleet exercises at fixed and portable ranges for the Underwater Tracking Range Equipment (UTRE)/Pinger Program, and

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 5: ASW Support Equipment	P-1 Line Item Number / Title: 5429 / ASW Support Equipment	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

equipment for the Surface Ship Radiated Noise Measurement (SSRNM) Program. Training and T&E ranges include; Southern California Offshore Range (SCORE), Barking Sands Tactical Underwater Range/ Barking Sands Underwater Range Extension (BARSTUR/BSURE), Jacksonville Shallow Water Training Range (JSWTR), Atlantic Underwater Test and Evaluation Center (AUTEC), Pacific Northwest Range Complex (Dabob/Nanoose ranges operated by Naval Undersea Warfare Center Division Keyport, Washington). Undersea Tracking Range Equipment includes MK 84 pingers used for participant tracking on instrumented ranges. FORACS ranges include; AUTEC, San Clemente Island, California, and deployed portable testing. Funding lines associated with replenishment spares N96 JCR6C ASW Support Equipment - SSRNM (J5429) for the FORACS and SSRNM programs and N94 JCR6C ASW Support Equipment (J5429) for the UTRE program. Funding also provides for Secure Autonomous Data Link for Undersea Warfare (USW) Portable (SADL-UP) in FY23.

See the following for a description of all P-40a and P-3a cost items that comprise this budget:

[P40A / VC000 - SUB WEAPONS LAUNCH/HANDLING SUPPORT]: VC000 - SUB WEAPONS LAUNCH/HANDLING SUPPORT
The Submarine Torpedo Tube Support category funds in-service support and alteration procurements for all submarine Torpedo Tubes (TT), Torpedo Ejection Pumps (TEP), Internal Countermeasure Launchers (ICL), and Weapons Stowage and Handling Systems (WSHS). Development efforts under this item number include Engineering Change Proposals (ECP), ORDALTs, Type Zero (TZ) kits and Test Equipment and alteration material procurement to correct significant deficiencies in equipment affecting personnel safety, ship safety and system performance.

[P40A / VC830 - PRODUCTION ENGINEERING]: VC830 - PRODUCTION ENGINEERING
Production engineering includes resolving Liaison Action Requests (LARs) configure/test assembly in lab prior to ship installation and in-shop engineering support of vendor testing.

[P40A / VC5IN O/A INSTALLATION]: VC5IN O/A 18000 INSTALL
Installing agents will be various Naval Shipyards and contractors. Contracted installations require funding for management of installations during the availabilities. All installations will be on SSBN and SSN688/21 Class Submarines.

[P40A - 2 / SURFACE ASW SUPPORT EQUIPMENT]: Cost Codes VC008/VC009/VC900/VC6IN/VC010:

[P40A - 2 / VC008 - ASWCS FIRE CONTROL ORDALTS]: VC008 Cost Elements/Descriptions as follows:

ASWCS - UCFS/FIRE CONTROL ORDALTs Item Number 1.1: Provides funding for ORDALT kits for the ASW Underwater Control Functional Segment (UCFS), ASW Control System (ASWCS) MK116 Mod 7, Torpedo Setting Panel (MK331), and the Torpedo Pre-Setter Test Set (MK432). This line item also provides material support at multiple land-based laboratories as well as material support for upgrades and calibrations. Procurements will ensure laboratories are at Fleet baseline configurations.

ASWCS - PRODUCTION ENGINEERING SUPPORT Item Number 1.2: Provides the necessary production engineering support funds to cover the associated Integrated Logistics Support (ILS) elements, Engineering Change Proposal (ECP) reviews, Engineering Changes (EC), Ship Change Documents (SCDs), and engineering audits for ASW Fire Control. Reviews and approves internal and external system interfaces (hardware and integration related) and identify interface issues.

ASWCS - ACCEPTANCE TEST & EVALUATION Item Number 1.3: Provides the in-house acceptance test and evaluation funding associated with the safety and quality assurance testing of all ASW Fire Control, Alteration Equivalent to Repairs (AERs), ECPs, ECs, and SCDs.

[P40A - 2 / VC009 - TORPEDO TUBE ORDALTS]: VC009 Cost Elements/Descriptions as follows:

SVTT - MK32 ORDALTS Item Number 2.1: The SVTT MK32 is an over-the-side torpedo defense surface ship launched system that conducts close-in ASW operations. This line provides funding for SVTT MK32 launchers, Torpedo Loading Trays (TLTs), and ancillary equipment for testing, training, and maintainability on select surface ship combatants. ORDALT procurements include: Overheat Sensor Test Set (SVTT MK32 Mod 15 Only - ORDALT 91074); Breech Mechanism Control Valve Redesign (SVTT MK32 All Mods - ORDALT ECP 2061 in Process); Training Gear Handcrank Support Improvements (SVTT MK32 Mods 15 Only - ORDALT ECP 2060 in Process), and Air Charging Panel Enclosure Redesign (SVTT MK32 MOD 15 Only - ORDALT TBD). Procure SVTT shoresite laboratory equipment for Launcher System Facilities

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 5: ASW Support Equipment	P-1 Line Item Number / Title: 5429 / ASW Support Equipment	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

(LSF). LSFs are used to simulate shipboard conditions for over-the-side torpedo launchers, as well as for the creation of the required ORDALTs. This line item will also upgrade a major subsystem of the SVTT, the MK 432 Test Set Torpedo Presetter (TSTP). The MK 432 TSTP provides the Fleet the capability to simulate presetting, mode, and launch verification by emulating all surface lightweight torpedo types and is also employed as an enhanced troubleshooting tool during launcher, Undersea Warfare (USW) Fire Control, and system casualty events. Due to obsolescence issues with the MK 432 TSTP, including display, mechanical steppers, and insufficient Random Access Memory (RAM) for presets, and as driven by enhanced Digital Fire Control Interface (eDFCI) requirements associated with AN/SQQ-89A(V)15 Surface ASW Combat System Advanced Capability Build (ACB)-21 and follow production baselines to ensure continued interoperability between the two systems, the MK 432 TSTP will undergo a significant ORDALT effort. Goals of the redesigned MK 432 TSTP equipment include upgrade of the microcontroller to have sufficient RAM for eDFCI presets, emulation of Mk 54 Mod 0/1/2 torpedoes, utilization of current Mk 54 circuitry for analog emulation instead of mechanical steppers, migration away from assembly language, and emulation of Recoverable Exercise Torpedoes (REXTORPs) and Exercise Torpedoes (EXTORPs).

SVTT - PRODUCTION ENGINEERING Item Number 2.2: Provides the necessary production engineering support funds to cover the associated Integrated Logistics Support (ILS) elements, Engineering Change Proposal (ECP) reviews, Engineering Changes (EC), SCDs, and engineering audits for SVTT ORDALTs.

SVTT - ACCEPTANCE TEST & EVALUATION Item Number 2.3: Provides the in-house acceptance test and evaluation funding required for the safety and quality assurance testing of all SVTT ORDALTs, Alteration Equivalent to Repairs (AERs), ECPs, ECs, and SCDs.

[P40A - 2 / VC900 - CONSULTING SERVICES]: VC900 Cost Element/Description as Follows:

Item 3.1: Provides the necessary funding for consulting services required to support scheduling of ASW Fire Control and SVTT ORDALT production, test, and installation efforts in conjunction with operation, safety, and environmental requirements.

[P40A - 2 / VC6IN - INSTALLATION OF EQUIPMENT]: VC6IN Cost Element/Description as follows:

Item Numbers 4.1 & 4.2: Funds the installation of all ASW UCFS/Fire Control ORDALTs/SCDs (under Cost Code VC008) and SVTT ORDALTs/SCDs (under Cost Code VC009). Alteration Installation Team (AIT) pier-side installations are variable and contingent on Type Commander (TYCOM), Ships' Scheduling Conference (SSC), and ships' availability.

[P40A - 3 / ASW RANGE SUPPORT EQUIPMENT]: ANTI-SUBMARINE WARFARE (ASW) RANGE SUPPORT EQUIPMENT:

Funding for self-propelled surface targets, towed surface targets, and associated target augmentation to mimic threats and/or provide feedback. Self-propelled surface targets include the High Speed Maneuverable Surface Target (HSMST), Seaborne Powered Target (SEPTAR) and Fast Attack Craft Target (FACT). Towed surface targets include the Low Cost Modular Target (LCMT) and Polyethylene Tow Target (PETT). (Targets)

Funding also provides Surface Ship Radiated Noise Measurement (SSRNM) & US Fleet Operational Readiness Accuracy Check Sites (FORACS) test and evaluation capability for surface ships and submarines; Underwater Tracking Range Equipment (UTRE)/Pinger Program provides tracking equipment for systems, platforms, torpedoes and targets on all Navy Underwater Tracking Ranges, including portable tracking systems supporting test and training events. Funding also provides for Secure Autonomous Data Link for Undersea Warfare (USW) Portable (SADL-UP) in FY23. (S05)

[P40A - 3 / VC001 - Surface Ship Radiated Noise Measurement (SSRNM)/US Fleet Operational Readiness Accuracy Check Sites (FORACS) - N96]: Funding provides for the procurement of range communication systems, ship auto-tracking system, Surface Ship Acoustic Range Equipment, and upgraded ship position tracking system for the Surface Ship Radiated Noise Measurement (SSRNM) and US Fleet Operational Readiness Accuracy Check Sites (FORACS) programs. Funding also provides for improvements, modernizations, and upgrades to systems and equipment. (S05)

[P40A - 3 / VC002 - UNDERWATER TRACKING RANGE EQUIPMENT (UTRE)/Pinger - N94]: Funding provides for the Underwater Tracking Range Equipment (UTRE)/Pinger program for the procurement of underwater tracking equipment for fixed and portable tracking systems, both CONUS and OCONUS, shop special Pinger purpose test equipment, and the associated ancillary hardware required to track ships and submarines during Fleet training exercises. Funding provides tracking equipment for systems, platforms, torpedoes and targets on all Navy Underwater Tracking Ranges, including portable tracking systems

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 5: ASW Support Equipment	P-1 Line Item Number / Title: 5429 / ASW Support Equipment	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

supporting test and training events for Forward Deployed Naval Forces (FDNF). Funding also provides for improvements, modernizations, and upgrades to systems and equipment. Funding also provides for Secure Autonomous Data Link for Undersea Warfare (USW) Portable (SADL-UP). (S05)

[P40A - 3 / VC003 - TOWED TARGETS]: The Fleet requires low cost expendable towed targets for weapon system T&E and Fleet training. The Low Cost Modular Target (LCMT) and the Polyethylene Tow Target (PETT) are the primary towed targets used to meet these requirements.

[P40A - 3 / VC004 - INSTRUMENTATION]: Seaborne target augmentation systems include transponders (i.e. transmitters/receivers), radar reflectors, Radio Frequency (RF) emitters and Ground Support Equipment (GSE). Various electronic components provide the interface for the target control systems with the control stations/facilities for drone operations. RF emitters and radar reflectors enhance target threat replication and provide the required stimulus for anti-surface/radar weapons systems.

[P40A - 3 / VC005 - HSMST (HIGH SPEED MANEUVERABLE SURFACE TARGET)]: Provides the user with a medium to high speed remote controlled surface target with a high degree of maneuverability. It has a form fitted collar surrounding the deck area of the aluminum hull. This target can exceed 45 knots in a calm sea and approaches 40 knots in a sea state 3.

[P40A - 3 / VC831/2 - PRODUCTION ENGINEERING]: Funding provides for Production Engineering performed by a field activity or contractor during the production phase of these projects. (S05) & (Ships)

[P40A - 3 / VC851 - PRODUCT IMPROVEMENT]: Funding provides for Product Improvement performed by a field activity or contractor during the production phase of these projects. (S05)

[P40A - 3 / VC970 - INTEGRATED LOGISTICS SUPPORT]: Funding provides for logistics spares and repair parts.

[P3A / VC010 - AN/UQN-10 SONAR SOUNDING SET FATHOMETER]: Funding provides for the fielding of the next generation AN/UQN-10 Sonar Sounding Set Fathometer as a Commercial-Off-The-Shelf (COTS) retrofit/replacement of legacy AN/UQN-4/4A systems on Destroyer (DDG51 Class), Aircraft Carrier (CVN Class), and Amphibious (LHA, LHD, LPD, LSD, LCC) platforms. This program will also finance the non-recurring engineering (NRE) required to upgrade acoustic communications and convert the non-program of record fathometers and transducers employed on Littoral Combat Ship (LCS) and DDG1000 platforms to the common program of record AN/UQN-10 Sonar Sounding Set Fathometer and TR-355 transducer. Retrofit of legacy AN/UQN-4/4A systems is required to increase Reliability, Maintainability & Availability (RM&A) metrics, increase overall Sonar Sounding Set Fathometer system Operational Availability (Ao), eliminate obsolescence issues and reduce supportability costs. AN/UQN-10 Sonar Sounding Set Fathometer replacement/retrofit efforts include the establishment of Integrated Logistics Support (ILS) elements and engineering test procedures, qualification and acceptance testing, procurement, and installation of systems via Alteration Installation Team (AIT). The AN/UQN-10 provides a means of measuring the depth of water below the ships keel to the ocean bottom. The AN/UQN-10 performs depth sounding functions, while providing visual depth indication and recording capabilities, for measured water depths to a maximum depth of more than 7000 meters. Real-time depth information is displayed in digital readout and graphic display formats with internal depth data logging capability available for playback and use in reconstruction efforts. The AN/UQN-10 is a drop-in replacement of the legacy AN/UQN-4/4A system, designed specifically to communicate with the same shipboard system interfaces and to utilize the same TR-355 series transducer as the legacy AN/UQN-4/4A. The AN/UQN-10 employs touch screen control, new digital remote depth indicators, and a new EchoSim signal simulator.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 5: ASW Support Equipment	**P-1 Line Item Number / Title:** 5429 / ASW Support Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A / **Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A	

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	SUB WEAPONS LAUNCHING/HANDLING SUPPORT EQUIPMENT				- / 20.303	- / -	- / -	- / -	- / -	- / -
P-40a	SURFACE ASW SUPPORT EQUIPMENT				- / 29.761	- / 4.008	- / 7.024	- / 5.664	- / -	- / 5.664
P-40a	ASW RANGE SUPPORT EQUIPMENT	P-5a			- / 127.343	- / 26.212	- / 17.079	- / 18.095	- / -	- / 18.095
P-3a	1 / VC010 - AN/UQN-10 SONAR SOUNDING SET FATHOMETER (Warfighting Capability)				- / 6.100	- / 5.500	- / 3.366	- / 1.603	- / 0.000	- / 1.603
P-40	**Total Gross/Weapon System Cost**				**- / 183.507**	**- / 35.720**	**- / 27.469**	**- / 25.362**	**- / 0.000**	**- / 25.362**

Exhibits Schedule					FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	SUB WEAPONS LAUNCHING/HANDLING SUPPORT EQUIPMENT				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	SURFACE ASW SUPPORT EQUIPMENT				- / -	- / -	- / -	- / -	- / -	- / -
P-40a	ASW RANGE SUPPORT EQUIPMENT	P-5a			- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / VC010 - AN/UQN-10 SONAR SOUNDING SET FATHOMETER (Warfighting Capability)				- / 1.631	- / 0.714	- / 0.000	- / 0.000	- / 0.000	- / 18.914
P-40	**Total Gross/Weapon System Cost**				**- / 25.973**	**- / 26.493**	**- / 27.023**	**- / 27.581**	**Continuing**	**Continuing**

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5429 / ASW Support Equipment	**Aggregated Items Title:** SUB WEAPONS LAUNCHING/ HANDLING SUPPORT EQUIPMENT (1)

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) VC000 - SUB WEAPONS LAUNCH/HANDLING SUPPORT																				
1.1) 2J COG MATERIAL	A		-	-	0.678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.2) TT/TEP/ICL/ WSHS	A		-	-	6.284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) VC000 - SUB WEAPONS LAUNCH/HANDLING SUPPORT			**-**	**-**	***6.962***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2) VC000 ORDALT PROCUREMENT																				
2.1) O/A MATERIAL	A		50,000.00	26	1.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 2) VC000 ORDALT PROCUREMENT			**-**	**-**	***1.300***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
3) VC000 - TEST EQUIPMENT																				
3.1) BORE GAGE	A		-	-	0.131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) MISC. TEST EQUIPMENT	A		-	-	0.573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.3) TEST FACILITY EQUIPMENT	A		-	-	0.637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 3) VC000 - TEST EQUIPMENT			**-**	**-**	***1.341***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
4) VC830 - PRODUCTION ENGINEERING																				
4.1) PRODUCTION ENGINEERING	A		-	-	1.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 4) VC830 - PRODUCTION ENGINEERING			**-**	**-**	***1.200***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
5) VC5IN - ORDALT INSTALLATION																				
5.1) VC5IN O/A INSTALLATION	A		-	-	9.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 5) VC5IN - ORDALT INSTALLATION			**-**	**-**	***9.500***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total			**-**	**-**	**20.303**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

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

Footnotes:

(1) This line item procures modifications and improvements to Attack and Ballistic Missile Submarine fire control interface systems, torpedo tube system components and torpedo tube test equipment. These requirements arise as a result of the introduction of new or modified weapons and sensors and their subsequent evaluation test and operational use. Also procured are reliability, maintainability, functional and safety modifications and tactical improvements resulting from operational use experience.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5429 / ASW Support Equipment	**Aggregated Items Title:** SURFACE ASW SUPPORT EQUIPMENT

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) VC008 - ASWCS FIRE CONTROL ORDALTS																				
1.1) ASWCS - UCFS/ FIRE CONTROL ORDALTS			-	-	13.579	-	-	1.811	-	-	1.847	-	-	1.884	-	-	-	-	-	1.884
1.2) ASWCS - PRODUCTION ENGINEERING SUPPORT			-	-	0.734	-	-	0.101	-	-	0.103	-	-	0.105	-	-	-	-	-	0.105
1.3) ASWCS - ACCEPTANCE TEST & EVALUATION			-	-	0.415	-	-	0.056	-	-	0.057	-	-	0.058	-	-	-	-	-	0.058
Subtotal: 1) VC008 - ASWCS FIRE CONTROL ORDALTS			**-**	**-**	***14.728***	**-**	**-**	***1.968***	**-**	**-**	***2.007***	**-**	**-**	***2.047***	**-**	**-**	**-**	**-**	**-**	***2.047***
2) VC009 - TORPEDO TUBE ORDALTS																				
2.1) SVTT - MK32 ORDALTS			-	-	11.407	-	-	1.557	-	-	4.525	-	-	3.116	-	-	-	-	-	3.116
2.2) SVTT - PRODUCTION ENGINEERING SUPPORT			-	-	0.730	-	-	0.101	-	-	0.103	-	-	0.105	-	-	-	-	-	0.105
2.3) SVTT - ACCEPTANCE TEST & EVALUATION			-	-	0.415	-	-	0.056	-	-	0.057	-	-	0.058	-	-	-	-	-	0.058
Subtotal: 2) VC009 - TORPEDO TUBE ORDALTS			**-**	**-**	***12.552***	**-**	**-**	***1.714***	**-**	**-**	***4.685***	**-**	**-**	***3.279***	**-**	**-**	**-**	**-**	**-**	***3.279***
3) VC900 - CONSULTING SERVICES																				
3.1) CONSULTING SERVICES			-	-	0.771	-	-	0.098	-	-	0.100	-	-	0.102	-	-	-	-	-	0.102
Subtotal: 3) VC900 - CONSULTING SERVICES			**-**	**-**	***0.771***	**-**	**-**	***0.098***	**-**	**-**	***0.100***	**-**	**-**	***0.102***	**-**	**-**	**-**	**-**	**-**	***0.102***
4) VC6IN - INSTALLATION OF EQUIPMENT																				
4.1) ASWCS - UCFS/ FIRE CONTROL ORDALTS			-	-	0.869	-	-	0.114	-	-	0.116	-	-	0.118	-	-	-	-	-	0.118
4.2) SVTT - TORPEDO TUBE ORDALTS			-	-	0.841	-	-	0.114	-	-	0.116	-	-	0.118	-	-	-	-	-	0.118
Subtotal: 4) VC6IN - INSTALLATION OF EQUIPMENT			**-**	**-**	***1.710***	**-**	**-**	***0.228***	**-**	**-**	***0.232***	**-**	**-**	***0.236***	**-**	**-**	**-**	**-**	**-**	***0.236***
Total			**-**	**-**	**29.761**	**-**	**-**	**4.008**	**-**	**-**	**7.024**	**-**	**-**	**5.664**	**-**	**-**	**-**	**-**	**-**	**5.664**

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

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	P-1 Line Item Number / Title: 5429 / ASW Support Equipment	Aggregated Items Title: ASW RANGE SUPPORT EQUIPMENT

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) VC001 - Surface Ship Radiated Noise Measurement (SSRNM)/US Fleet Operational Readiness Acc																				
1.1) VC001 - SSRNM/ US FORACS (S05)	A		-	-	20.669	-	-	3.090	-	-	3.126	-	-	3.181	-	-	-	-	-	3.181
Subtotal: 1) VC001 - Surface Ship Radiated Noise Measurement (SSRNM)/US Fleet Operational Readiness Acc			**-**	**-**	***20.669***	**-**	**-**	***3.090***	**-**	**-**	***3.126***	**-**	**-**	***3.181***	**-**	**-**	**-**	**-**	**-**	***3.181***
2) VC002 - UNDERWATER TRACKING RANGE EQUIPMENT (UTRE)/Pinger - N94																				
2.1) VC002 - UTRE (S05)	A		-	-	15.515	-	-	10.830	-	-	2.067	-	-	2.121	-	-	-	-	-	2.121
Subtotal: 2) VC002 - UNDERWATER TRACKING RANGE EQUIPMENT (UTRE)/Pinger - N94			**-**	**-**	***15.515***	**-**	**-**	***10.830***	**-**	**-**	***2.067***	**-**	**-**	***2.121***	**-**	**-**	**-**	**-**	**-**	***2.121***
3) VC003 - TOWED TARGETS																				
3.1) VC003 - TOWED TARGETS (USC)	A		-	-	7.865	-	-	1.159	-	-	1.037	-	-	1.064	-	-	-	-	-	1.064
Subtotal: 3) VC003 - TOWED TARGETS			**-**	**-**	***7.865***	**-**	**-**	***1.159***	**-**	**-**	***1.037***	**-**	**-**	***1.064***	**-**	**-**	**-**	**-**	**-**	***1.064***
4) VC004 - INSTRUMENTATION																				
4.1) VC004 - INSTRUMENTATION (USC)	A		-	-	1.323	-	-	0.188	-	-	0.194	-	-	0.200	-	-	-	-	-	0.200
Subtotal: 4) VC004 - INSTRUMENTATION			**-**	**-**	***1.323***	**-**	**-**	***0.188***	**-**	**-**	***0.194***	**-**	**-**	***0.200***	**-**	**-**	**-**	**-**	**-**	***0.200***
5) VC005 - HSMST (HIGH SPEED MANEUVERABLE SURFACE TARGET)																				
5.1) VC005 - HSMST (USC) [(2)(†)]	A		197,252.75	364	71.800	217,712.00	44	9.579	220,952.38	42	9.280	224,444.44	45	10.100	-	-	-	224,444.44	45	10.100
Subtotal: 5) VC005 - HSMST (HIGH SPEED MANEUVERABLE SURFACE TARGET)			**-**	**-**	***71.800***	**-**	**-**	***9.579***	**-**	**-**	***9.280***	**-**	**-**	***10.100***	**-**	**-**	**-**	**-**	**-**	***10.100***
6) VC831/2 - PRODUCTION ENGINEERING																				
6.1) VC831 - PRODUCTION ENGINEERING UTRE - N94/US FORACS - N96 (S05)	A		-	-	2.653	-	-	0.348	-	-	0.348	-	-	0.348	-	-	-	-	-	0.348
6.2) VC832 - PRODUCTION ENGINEERING (USC)	A		-	-	3.669	-	-	0.500	-	-	0.535	-	-	0.537	-	-	-	-	-	0.537
Subtotal: 6) VC831/2 - PRODUCTION ENGINEERING			**-**	**-**	***6.322***	**-**	**-**	***0.848***	**-**	**-**	***0.883***	**-**	**-**	***0.885***	**-**	**-**	**-**	**-**	**-**	***0.885***
7) VC851 - PRODUCT IMPROVEMENT																				
7.1) VC851 - PRODUCT	A		-	-	2.654	-	-	0.348	-	-	0.348	-	-	0.348	-	-	-	-	-	0.348

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	P-1 Line Item Number / Title: 5429 / ASW Support Equipment	Aggregated Items Title: ASW RANGE SUPPORT EQUIPMENT

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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)
IMPROVEMENT UTRE - N94/US FORACS-N96 (S05)																				
Subtotal: 7) VC851 - PRODUCT IMPROVEMENT			**-**	**-**	***2.654***	**-**	**-**	***0.348***	**-**	**-**	***0.348***	**-**	**-**	***0.348***	**-**	**-**	**-**	**-**	**-**	***0.348***
8) VC970 - INTEGRATED LOGISTICS SUPPORT																				
8.1) VC970 - INTEGRATED LOGISTICS SUPPORT (USC)	A		-	-	1.195	-	-	0.170	-	-	0.144	-	-	0.196	-	-	-	-	-	0.196
Subtotal: 8) VC970 - INTEGRATED LOGISTICS SUPPORT			**-**	**-**	***1.195***	**-**	**-**	***0.170***	**-**	**-**	***0.144***	**-**	**-**	***0.196***	**-**	**-**	**-**	**-**	**-**	***0.196***
Total			**-**	**-**	**127.343**	**-**	**-**	**26.212**	**-**	**-**	**17.079**	**-**	**-**	**18.095**	**-**	**-**	**-**	**-**	**-**	**18.095**

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

(†) indicates the presence of a P-5a

Footnotes:

(2) HSMSTs must be procured annually to (1) replace targets destroyed during testing/exercises, (2) replace targets which are beyond their service life and (3) provide a sufficient inventory of targets at the operating activities (Target Ranges). The Navy conducts approximately 3,000 seaborne target exercises each year. 1,500 seaborne target operations each year involve the HSMST and between 50 and 100 are destroyed annually. HSMSTs can be re-used if the target is not impacted or if the extent of the damage is minimal enough to allow the HSMST to be repaired.

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	P-1 Line Item Number / Title: 5429 / ASW Support Equipment	Aggregated Items: ASW RANGE 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
5) VC005 - HSMST (HIGH SPEED MANEUVERABLE SURFACE TARGET)												
5.1) VC005 - HSMST (USC) (2)		2022	Gravois Aluminum Boats / LA	C / FFP	NAVSEA	Dec 2022	May 2023	60	213,166.00	Y		Nov 2021
5.1) VC005 - HSMST (USC) (2)		2023	Silverships / Theodore, AL	C / FFP	NAVSEA	Jun 2023	May 2024	44	217,712.00	Y		Nov 2022
5.1) VC005 - HSMST (USC) (2)		2024	Silverships / Theodore, AL	C / FFP	NAVSEA	Mar 2024	Aug 2024	42	220,952.38	Y		Nov 2023
5.1) VC005 - HSMST (USC) (2)		2025	TBD / TBD	C / FFP	NAVSEA	Mar 2025	Aug 2025	45	224,444.44	Y		Nov 2024

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	P-1 Line Item Number / Title: 5429 / ASW Support Equipment	Modification Number / Title: 1 / VC010 - AN/UQN-10 SONAR SOUNDING SET FATHOMETER
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	6.100	5.500	3.366	1.603	0.000	1.603	1.631	0.714	0.000	0.000	0.000	18.914
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	6.100	5.500	3.366	1.603	0.000	1.603	1.631	0.714	0.000	0.000	0.000	18.914
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**6.100**	**5.500**	**3.366**	**1.603**	**0.000**	**1.603**	**1.631**	**0.714**	**0.000**	**0.000**	**0.000**	**18.914**
(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:

This line item is responsible for the fielding of the next generation AN/UQN-10 Sonar Sounding Set Fathometer as a Commercial-Off-The-Shelf (COTS) retrofit/replacement of legacy AN/UQN-4/4A systems on Destroyer (DDG51 Class), Aircraft Carrier (CVN Class), and Amphibious (LHA, LHD, LPD, LSD, LCC) platforms. This program will also finance the non-recurring engineering (NRE) required to upgrade acoustic communications and convert the non-program of record fathometers and transducers employed on Littoral Combat Ship (LCS) and DDG1000 platforms to the common program of record AN/UQN-10 Sonar Sounding Set Fathometer and TR-355 transducer. Retrofit of legacy AN/UQN-4/4A systems is required to increase Reliability, Maintainability & Availability (RM&A) metrics, increase overall Sonar Sounding Set Fathometer system Operational Availability (Ao), eliminate obsolescence issues and reduce supportability costs. AN/UQN-10 Sonar Sounding Set Fathometer replacement/retrofit efforts include the establishment of Integrated Logistics Support (ILS) elements and engineering test procedures, qualification and acceptance testing, procurement, and installation of systems via Alteration Installation Team (AIT). The AN/UQN-10 provides a means of measuring the depth of water below the ships keel to the ocean bottom. The AN/UQN-10 performs depth sounding functions, while providing visual depth indication and recording capabilities, for measured water depths to a maximum depth of more than 7000 meters. Real-time depth information is displayed in digital readout and graphic display formats with internal depth data logging capability available for playback and use in reconstruction efforts. The AN/UQN-10 is a drop-in replacement of the legacy AN/UQN-4/4A system, designed specifically to communicate with the same shipboard system interfaces and to utilize the same TR-355 series transducer as the legacy AN/UQN-4/4A. The AN/UQN-10 employs touch screen control, new digital remote depth indicators, and a new EchoSim signal simulator.

NOTE: The total AN/UQN-10 Sonar Sounding Set Fathometer retrofit requirement is 103 ships. All 103 systems were previously procured via a separate OPN Budget Line Item (BLI). 17 of those systems were previously installed via that same separate OPN BLI, leaving a balance of 86 systems to be installed via the OPN BLI 5429 Cost Code VC010 AN/UQN-10 Sonar Sounding Set Fathometer program represented here. For accounting purposes, these 86 systems are depicted within the 'Procurement' section of the OPN BLI 5429 VC010 P-3a in the Prior Years column with zero dollars shown.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5429 / ASW Support Equipment	**Modification Number / Title:** 1 / VC010 - AN/UQN-10 SONAR SOUNDING SET FATHOMETER
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: Retrofit of legacy AN/UQN-4/4A Sonar Sounding Set Fathometers with next generation AN/UQN-10 system	**Modification Type:** Warfighting Capability	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: VC010 - AN/UQN-10 SONAR SOUNDING SET FATHOMETER												
B Kits												
Recurring												
1.1.1) VC010 - AN/UQN-10 SOUNDING SET FATHOMETER - NonOrganic [3]	86 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	86 / 0.000
Subtotal: Recurring	*- / 0.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 0.000*
Subtotal: VC010 - AN/UQN-10 SONAR SOUNDING SET FATHOMETER	*86 / 0.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*86 / 0.000*
Subtotal: Procurement, All Modification Items	*- / 0.000*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / -*	*- / 0.000*
Installation												
Modification Item 1 of 1: VC010 - AN/UQN-10 SONAR SOUNDING SET FATHOMETER	- / 6.100	- / 5.500	- / 3.366	- / 1.603	- / 0.000	- / 1.603	- / 1.631	- / 0.714	- / 0.000	- / 0.000	- / 0.000	- / 18.914
Subtotal: Installation	*- / 6.100*	*- / 5.500*	*- / 3.366*	*- / 1.603*	*- / -*	*- / 1.603*	*- / 1.631*	*- / 0.714*	*- / -*	*- / -*	*- / 0.000*	*- / 18.914*
Total												
Total Cost (Procurement + Support + Installation)	**6.100**	**5.500**	**3.366**	**1.603**	**0.000**	**1.603**	**1.631**	**0.714**	**0.000**	**0.000**	**0.000**	**18.914**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 5	**P-1 Line Item Number / Title:** 5429 / ASW Support Equipment	**Modification Number / Title:** 1 / VC010 - AN/UQN-10 SONAR SOUNDING SET FATHOMETER

ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Modification Item 1 of 1: VC010 - AN/UQN-10 SONAR SOUNDING SET FATHOMETER

Manufacturer Information

Manufacturer Name: Knudsen Systems, Inc.	Manufacturer Location: Ogdensburg, NY
Administrative Leadtime *(in Months)*: 0	Production Leadtime *(in Months)*: 3

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: Alteration Installation Team (AIT):: Installation Name: VC010 - AN/UQN-10 SOUNDING SET FATHOMETER

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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	29 / 6.100	25 / 5.500	15 / 3.366	7 / 1.603	0 / 0.000	7 / 1.603	7 / 1.631	3 / 0.714	- / -	- / -	0 / 0.000	86 / 18.914
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	29 / 6.100	25 / 5.500	15 / 3.366	7 / 1.603	0 / 0.000	7 / 1.603	7 / 1.631	3 / 0.714	- / -	- / -	0 / 0.000	86 / 18.914

Installation Schedule

		FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029					
	PYS	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	29	5	6	7	7	3	5	4	3	1	3	2	1	1	2	2	2	-	2	1	-	-	-	-	-	-	-	-	-	-	86
Out	29	5	6	7	7	3	5	4	3	1	3	2	1	1	2	2	2	-	2	1	-	-	-	-	-	-	-	-	-	-	86

Footnotes:

(3) NOTE: The total AN/UQN-10 Sonar Sounding Set Fathometer retrofit requirement is 103 ships. All 103 systems were previously procured via a separate OPN Budget Line Item (BLI). 17 of those systems were previously installed via that same separate OPN BLI, leaving a balance of 86 systems to be installed via the OPN BLI 5429 Cost Code VC010 AN/UQN-10 Sonar Sounding Set Fathometer program represented here. For accounting purposes, these 86 systems are depicted within the 'Procurement' section of the OPN BLI 5429 VC010 P-3a in the Prior Years column with zero dollars shown.

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Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 6: Other Ordnance Support Equipment	**P-1 Line Item Number / Title:** 5509 / EOD Equipment

ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603654N, 0604654N, 0604653N

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	858.258	14.336	27.864	26.725	0.000	26.725	19.877	15.431	4.172	4.259	-	970.922
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	858.258	14.336	27.864	26.725	0.000	26.725	19.877	15.431	4.172	4.259	-	970.922
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**858.258**	**14.336**	**27.864**	**26.725**	**0.000**	**26.725**	**19.877**	**15.431**	**4.172**	**4.259**	**-**	**970.922**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	0.424	1.498	-	1.498	-	-	-	-	-	1.922
Flyaway Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Explosive Ordnance Disposal (EOD) Equipment procures Navy EOD required tools and equipment developed to support a lethal, agile, and resilient force. In alignment with efforts to modernize in accordance with the National Defense Strategy, EOD Technicians require specialized tools to enable dynamic maneuver of Ships, Submarines, and Aircraft against near peer adversaries through the render safe and mitigation of explosive hazards on land and underwater. EOD Equipment supports 134 EOD Platoons both OCONUS and CONUS operations that allow the ability to detect, access, diagnose, render safe, exploit, and dispose of threats to National Security. Threat analysis and prosecution requires increased standoff distances from increasingly lethal, dynamic and advanced weapons system threats fielded by near peer adversaries.

VN870:
Procures Joint Counter Radio-Controlled Improvised Explosive Device (RCIED) Electronic Warfare (CREW)/AN/PLT-6(V)1 (replacement for AN/PLT-4) systems that disrupt enemy command and control radio frequency (RF) communications associated with IEDs. Funds also procure hardware upgrades for fielded systems required to maintain capability against the evolving advanced threat.

CUAS/DRAKE:
Procures Counter Unmanned Aircraft (C-UAS) systems that disrupt enemy command and control radio frequency (RF) communications associated with small-UAS. Additionally, in support of United States Fleet Forces (USFF), this program also supports the Navy effort to field CREW dismounted systems with a C-UAS capability. Funds also procure hardware upgrades for fielded systems required to maintain capability against the evolving advanced threat.

VN075:
EOD Robotics: Provides USN EOD Robotics outfitting for performing UXO and IED clearance operations in remote locations or forces directly supporting maneuver forces to provide access to battlespace and ensure freedom of navigation.

VN077:
NAVY EOD EQUIPMENT: Procurement provides the recapitalization and modernization of EOD equipment and will address Table of Allowance shortfalls.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 6: Other Ordnance Support Equipment	**P-1 Line Item Number / Title:** 5509 / EOD Equipment

ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603654N, 0604654N, 0604653N

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-5	1 / EOD - CREW Equipment	P-5a, P-21			- / 858.258	- / 14.336	- / 27.864	- / 26.725	- / 0.000	- / 26.725
P-40	**Total Gross/Weapon System Cost**				**- / 858.258**	**- / 14.336**	**- / 27.864**	**- / 26.725**	**- / 0.000**	**- / 26.725**

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

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

Justification:

VN075 EOD Robotics - FY 2025 funding decrease for EOD Robotics is attributed to the procurement of Medium Robotics systems (MTRS-II) and Large Robotics systems (CRS-H) that completed the inventory objectives of medium and large robots that are required for Navy EOD Forces. The procurement of the systems needed to happen under a condensed timeline due to contracting constraints that occur at the end of FY 2024. Without the contract, there was no fiscally responsible option to procure the capabilities. The funding enabled EOD Technicians to perform expeditionary (Medium) and base (Large) ordnance clearance remotely, removing the EOD technician from harm's way.

VN077 Navy EOD Equipment - FY 2025 funding increase for Navy EOD Equipment supports the modernization and advancement of Naval EOD capabilities through procurement while mitigating the negative impact of system obsolescence. The ability to detect metal and non-metal buried/hidden ordnance and Improvised Explosive Devices (IEDs) will be improved by leveraging the Sub-surface Ordnance and IED Locator (SOIL) Family of Systems (FoS). The reliance on obsolete equipment will be avoided by fielding new Chemical, Biological, Radiological, and Nuclear (CBRN) detection systems. Render safe and neutralization capabilities will be enhanced through procurement of advanced tools and equipment specific to operational scenarios as well as future threats.

VN870 JOINT CREW - FY 2025 Funding increase for NAVY CREW supports the procurement of AN/PLT-6(V)1 systems to replace obsolete AN/PLT-4 emplaced systems. Total qtys will remain the same and schedule meets system upgrade timeline requirements.
CE 3.1.2 FY 2024 QTY of 47 to 0 QTY in FY 2025, due to requirement for systems being met.
CE 3.1.3 FY 2024 QTY 0 to QTY 121 in FY 2025, for NAVY CREW supports the procurement of AN/PLT-6(V)1 systems to replace obsolete AN/PLT-4 emplaced systems.

CUAS/DRAKE - FY 2025 increase due to new requirements for increased procurement of DRAKE 2.0 that brings advanced capabilities to the Fleet to meet the OPNAV Afloat C-UAS Top Level Requirements.
CE 4.1.1 Increase from 0 QTY in FY 2024 to 207 QTY in FY 2025 to account for the remaining 54 assets needed for undersea and the 153 assets for the amphibious, surface, and MSC assets starting in FY 2025.
CE 4.1.2 Decrease from 40 QTY to 0 in FY 2025 because remaining requirement for 54 undersea assets were rolled into the requirement in 4.1.1 for FY 2025.
CE 4.1.3 Decrease from 44 QTY to 0 in FY 2025 because no further carrier assets were required.

Exhibit P-5, Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	**P-1 Line Item Number / Title:** 5509 / EOD Equipment	**Item Number / Title [DODIC]:** 1 / EOD - CREW Equipment
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	858.258	14.336	27.864	26.725	0.000	26.725
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	858.258	14.336	27.864	26.725	0.000	26.725
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**858.258**	**14.336**	**27.864**	**26.725**	**0.000**	**26.725**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)						
Initial Spares *($ in Millions)*	-	-	0.424	1.498	-	1.498
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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 - VN075 - EOD EQUIPMENT/SYSTEM Cost																		
Recurring Cost																		
1.1.1) EOD ROBOTICS(†)	168,174.19	155	26.067	150,000.00	18	2.700	179,310.52	81	14.524	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	*26.067*	-	-	*2.700*	-	-	*14.524*	-	-	-	-	-	-	-	-	-
Subtotal: Hardware - VN075 - EOD EQUIPMENT/ SYSTEM Cost	**-**	**-**	***26.067***	**-**	**-**	***2.700***	**-**	**-**	***14.524***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Hardware - VN077 - EOD OUTFITTING Cost																		
Recurring Cost																		
2.1.1) EXPEDITIONARY EXPLOITATION UNIT (EXU-1) (1)	-	-	32.627	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) MATERIAL FOR NAVSCOLEOD	-	-	4.473	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) EOD DECISION SUPPORT SYSTEM CONTINUOUS IMPROVEMENTS	-	-	14.746	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.4) NAVY EOD EQUIPMENT (2)	-	-	54.256	-	-	0.699	-	-	4.059	-	-	5.032	-	-	-	-	-	5.032
2.1.5) ROBOTICS EQUIPMENT (3)	-	-	2.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	*108.702*	-	-	*0.699*	-	-	*4.059*	-	-	*5.032*	-	-	-	-	-	*5.032*

Exhibit P-5, Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	P-1 Line Item Number / Title: 5509 / EOD Equipment	Item Number / Title [DODIC]: 1 / EOD - CREW Equipment
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)
Subtotal: Hardware - VN077 - EOD OUTFITTING Cost	**-**	**-**	***108.702***	**-**	**-**	***0.699***	**-**	**-**	***4.059***	**-**	**-**	***5.032***	**-**	**-**	**-**	**-**	**-**	***5.032***
Hardware - VN870 - JOINT CREW Cost																		
Non Recurring Cost																		
3.1.1) JOINT CREW(†) (4)	155,571.43	637	99.099	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) TECH INSERTION and REFRESH(†) (5)	-	-	4.984	72,651.79	112	8.137	74,276.60	47	3.491	-	-	0.963	-	-	-	-	-	0.963
3.1.3) AN/PLT-6(V)1 SYSTEMS(†) (6)	-	-	-	-	-	-	-	-	-	51,818.18	121	6.270	-	-	-	51,818.18	121	6.270
Subtotal: Non Recurring Cost	-	-	*104.083*	-	-	*8.137*	-	-	*3.491*	-	-	*7.233*	-	-	-	-	-	*7.233*
Subtotal: Hardware - VN870 - JOINT CREW Cost	**-**	**-**	***104.083***	**-**	**-**	***8.137***	**-**	**-**	***3.491***	**-**	**-**	***7.233***	**-**	**-**	**-**	**-**	**-**	***7.233***
Hardware - CUAS/DRAKE Cost																		
Non Recurring Cost																		
4.1.1) COUNTER UNMANNED AIRCRAFT SYSTEMS (CUAS/DRAKE)(†) (7)	492,400.00	125	61.550	100,000.00	28	2.800	-	-	-	69,855.07	207	14.460	-	-	-	69,855.07	207	14.460
4.1.2) DRAKE SYSTEMS/TECH INSERTION UNDERSEA ENTERPRISE(†) (8)	-	-	-	-	-	-	81,500.00	40	3.260	-	-	-	-	-	-	-	-	-
4.1.3) DRAKE SYSTEMS/TECH INSERTION AIR ENTERPRISE(†) (9)	-	-	-	-	-	-	57,500.00	44	2.530	-	-	-	-	-	-	-	-	-
4.1.4) NSW COUNTER UNMANNED AERIAL SYSTEM (CUAS) (10)	-	-	1.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	*63.150*	-	-	*2.800*	-	-	*5.790*	-	-	*14.460*	-	-	-	-	-	*14.460*
Subtotal: Hardware - CUAS/DRAKE Cost	**-**	**-**	***63.150***	**-**	**-**	***2.800***	**-**	**-**	***5.790***	**-**	**-**	***14.460***	**-**	**-**	**-**	**-**	**-**	***14.460***
Support - VN830 - PRODUCTION ENGINEERING Cost																		

Exhibit P-5, Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	P-1 Line Item Number / Title: 5509 / EOD Equipment	Item Number / Title [DODIC]: 1 / EOD - CREW Equipment
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)
5.1) PRODUCTION ENGINEERING	-	-	14.668	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - VN830 - PRODUCTION ENGINEERING Cost	**-**	**-**	***14.668***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Support - VN850 - PRODUCT IMPROVEMENT Cost																		
6.1) PRODUCT IMPROVEMENT	-	-	9.991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - VN850 - PRODUCT IMPROVEMENT Cost	**-**	**-**	***9.991***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Support - VN860 - ACCEPTANCE, TEST & EVALUATION Cost																		
7.1) JOINT EOD ACCEPTANCE TEST & EVALUATION	-	-	9.438	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7.2) JOINT CREW ACCEPTANCE TEST & EVALUATION	-	-	3.104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - VN860 - ACCEPTANCE, TEST & EVALUATION Cost	**-**	**-**	***12.542***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Support - VNTNG - INITIAL TRAINING Cost																		
8.1) VNTNG - INITIAL TRAINING	-	-	4.096	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - VNTNG - INITIAL TRAINING Cost	**-**	**-**	***4.096***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Support - PRIOR YEARS CUMULATIVE FUNDING Cost																		
9.1) PRIOR YEAR FUNDING	-	-	514.959	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - PRIOR YEARS CUMULATIVE FUNDING Cost	**-**	**-**	***514.959***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Gross/Weapon System Cost	**-**	**-**	**858.258**	**-**	**-**	**14.336**	**-**	**-**	**27.864**	**-**	**-**	**26.725**	**-**	**-**	**0.000**	**-**	**-**	**26.725**

(†) indicates the presence of a P-5a

Footnotes:

(1) EXPEDITIONARY EXPLOITATION UNIT (EXU-1): Provides for outfitting of EXU-1 Detachment approved Table of Allowance to address operational requirements for ordnance and IED exploitation in support of global tasking. Enables rapid attribution intelligence against asymmetric and near peer threats to shape geo-political responses.

Exhibit P-5, Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	P-1 Line Item Number / Title: 5509 / EOD Equipment	Item Number / Title [DODIC]: 1 / EOD - CREW Equipment
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

(2) NAVY EOD EQUIPMENT: Procurement provides the recapitalization and modernization of EOD equipment in support of approved Buy Plan.

(3) EOD Robotics Equipment: Provides United States Navy EOD outfitting operational systems for performing operations in remote locations or when Explosive Ordnance Disposal (EOD) forces are directly supporting maneuver forces in the anticipation of an incident.

(4) JOINT CREW Provides for the procurement, support, and other related costs of the Joint Counter Radio Controlled Improvised Explosive Device - Electronic Warfare (JCREW) program and related family of systems that provide countermeasures against the global Radio Controlled IED (RCIED) threat.

(5) Joint TECH INSERTION and REFRESH: provides funding for the procurement of NextGen Software Defined Radio retrofit kits to be installed in fielded JCREW I1B1 systems that are necessary to implement advanced countermeasure capabilities against the global Radio Controlled IED (RCIED) threat.

(6) AN/PLT-6(V)1 emplaced CIED system, replaces the obsolete AN/PLT-4 emplaced CIED system.

(7) Procures DRAKE 2.0 systems for the surface, subsurface, carrier, amphibious, and MSC assets for the US Navy. DRAKE 2.0 is fielded in 2 increments. Increment 1 (INC 1) is a tech refresh that mitigates obsolescence and increases onboard computing power. Increment 2 (INC 2) delivers an optimized antenna and docking station. INC 2 procurements blend with the INC 1 procurements as they are procured in the same fiscal years. This make the unit cost appear to decrease over time, however the unit cost for each increment is consistent throughout the delivery schedule.

(8) DRAKE SYSTEMS/TECH INSERTION UNDERSEA ENTERPRISE: Procures 13 DRAKE 2.0 systems and 27 Retrofit Kits to upgrade DRAKE 1.0 Systems currently fielded onboard all Submarine Classes. DRAKE utilizes open software architecture and Software Defined Radios, enabling upgrades as threats evolve. DRAKE 2.0 capability will be developed and fielded in two increments and DRAKE 1.0 systems will be retrofit to 2.0. Composite unit cost reflects DRAKE 2.0 full system is higher cost than a retrofit kit.

(9) DRAKE SYSTEMS/TECH INSERTION AIR ENTERPRISE: Procures Retrofit Kits to upgrade 44 DRAKE 1.0 Systems currently fielded onboard all CVN Class Ships. DRAKE utilizes open software architecture and Software Defined Radios, enabling upgrades as threats evolve. DRAKE 2.0 capability will be developed and fielded in two increments and DRAKE 1.0 systems will be retrofit to 2.0.

(10) NSW COUNTER UNMANNED AERIAL SYSTEM: Supports the procurement of Naval Surface Warfare to provide a Counter Unmanned Aerial System (C-UAS) capability in response to a Joint Urgent Operational Need (JUON)CC-0558.

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	P-1 Line Item Number / Title: 5509 / EOD Equipment	Item Number / Title [DODIC]: 1 / EOD - CREW Equipment

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 ($)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) EOD ROBOTICS(†)		2020	FLIR / Boston, MA	C / FFP	ARMY	May 2020	May 2021	91	148,983.87	Y		Sep 2017
1.1.1) EOD ROBOTICS(†)		2021	FLIR / Boston, MA	C / FFP	ARMY	Mar 2021	Mar 2022	64	150,581.39	Y		Sep 2017
1.1.1) EOD ROBOTICS(†)		2023	FLIR / Boston, MA	C / FFP	ARMY	Mar 2023	Mar 2024	18	150,000.00	Y		Sep 2017
1.1.1) EOD ROBOTICS(†)		2024	FLIR / Boston, MA	C / TBD	ARMY	Oct 2023	Oct 2024	81	179,310.52	Y		Sep 2017
3.1.1) JOINT CREW(†)		2016	NORTHROP GRUMMAN / San Diego, CA	C / FPIF	NAVSEA	Jul 2016	Mar 2017	25	117,160.00	Y		Oct 2014
3.1.1) JOINT CREW(†)	✓	2017	NORTHROP GRUMMAN / San Diego, CA	C / FFP	NAVSEA	Aug 2017	Dec 2018	577	139,400.00	Y		Aug 2016
3.1.1) JOINT CREW(†)	✓	2018	NORTHROP GRUMMAN / San Diego, CA	C / FFP	NAVSEA	Jun 2018	Dec 2019	35	348,580.00	Y		Aug 2016
3.1.2) TECH INSERTION and REFRESH(†)		2023	NORTHROP GRUMMAN / San Diego, CA	C / FFP	NAVSEA	Jul 2023	Nov 2024	112	72,651.79	Y		Mar 2022
3.1.2) TECH INSERTION and REFRESH(†)		2024	NORTHROP GRUMMAN / San Diego, CA	C / FFP	NAVSEA	Jan 2024	May 2025	47	74,276.60	Y		Mar 2022
3.1.3) AN/PLT-6(V)1 SYSTEMS(†)		2025	PARRY LABS / Columbia, MD	C / FFP	DLA	Jan 2025	Sep 2025	121	51,818.18	Y		Dec 2022
4.1.1) COUNTER UNMANNED AIRCRAFT SYSTEMS (CUAS/ DRAKE)	✓	2018	NORTHROP GRUMMAN / San Diego, CA	C / FFP	NAVSEA	Jun 2018	Dec 2019	75	378,666.00	Y		Aug 2016
4.1.1) COUNTER UNMANNED AIRCRAFT SYSTEMS (CUAS/ DRAKE)	✓	2019	NORTHROP GRUMMAN / San Diego, CA	C / FFP	NAVSEA	Jan 2019	May 2020	50	498,000.00	Y		Aug 2016
4.1.1) COUNTER UNMANNED AIRCRAFT SYSTEMS (CUAS/ DRAKE)		2023	NORTHROP GRUMMAN / San Diego, CA	C / FFP	NAVSEA	Jul 2023	Nov 2024	28	100,000.00	Y		Mar 2022
4.1.1) COUNTER UNMANNED AIRCRAFT SYSTEMS (CUAS/ DRAKE)(†)		2025	NORTHROP GRUMMAN / San Diego, CA	C / FFP	NAVSEA	Jan 2025	May 2026	207	69,855.07	Y		Jul 2023
4.1.2) DRAKE SYSTEMS/ TECH INSERTION UNDERSEA ENTERPRISE		2024	NORTHROP GRUMMAN / San Diego, CA	C / FFP	NAVSEA	Jan 2024	May 2025	40	81,500.00	Y		Mar 2022
4.1.3) DRAKE SYSTEMS/TECH INSERTION AIR ENTERPRISE		2024	NORTHROP GRUMMAN / San Diego, CA	C / FFP	NAVSEA	Jan 2024	May 2025	44	57,500.00	Y		Mar 2022

(†) indicates the presence of a P-21

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	P-1 Line Item Number / Title: 5509 / EOD Equipment	Item Number / Title [DODIC]: 1 / EOD - CREW Equipment

Cost Elements (Units in Each)							Fiscal Year 2016												Fiscal Year 2017												BALANCE
							Calendar Year 2016												Calendar Year 2017													
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1.1.1) EOD ROBOTICS																															
	1	2020	NAVY	91	0	91																									91
	1	2021	NAVY	64	0	64																									64
	1	2023	NAVY	18	0	18																									18
	1	2024	NAVY	81	0	81																									81
3.1.1) JOINT CREW [4]																															
	2	2016	NAVY	25	0	25										A	-	-	-	-	-	-	-	25							0
✓	2	2017	NAVY	577	0	577																							A	-	577
✓	2	2018	NAVY	35	0	35																									35
3.1.2) TECH INSERTION and REFRESH [5]																															
	3	2023	NAVY	112	0	112																									112
	3	2024	NAVY	47	0	47																									47
3.1.3) AN/PLT-6(V)1 SYSTEMS [6]																															
	4	2025	NAVY	121	0	121																									121
4.1.1) COUNTER UNMANNED AIRCRAFT SYSTEMS (CUAS/DRAKE) [7]																															
	5	2025	NAVY	207	0	207																									207
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	P-1 Line Item Number / Title: 5509 / EOD Equipment	Item Number / Title [DODIC]: 1 / EOD - CREW Equipment

Cost Elements (Units in Each)							Fiscal Year 2018												Fiscal Year 2019												BALANCE
							Calendar Year 2018												Calendar Year 2019													
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1.1.1) EOD ROBOTICS																															
	1	2020	NAVY	91	0	91																									91
	1	2021	NAVY	64	0	64																									64
	1	2023	NAVY	18	0	18																									18
	1	2024	NAVY	81	0	81																									81
3.1.1) JOINT CREW [4]																															
	2	2016	NAVY	25	25	0																									0
✓	2	2017	NAVY	577	0	577	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	73	72	72	72	72	72	72			0
✓	2	2018	NAVY	35	0	35									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
3.1.2) TECH INSERTION and REFRESH [5]																															
	3	2023	NAVY	112	0	112																									112
	3	2024	NAVY	47	0	47																									47
3.1.3) AN/PLT-6(V)1 SYSTEMS [6]																															
	4	2025	NAVY	121	0	121																									121
4.1.1) COUNTER UNMANNED AIRCRAFT SYSTEMS (CUAS/DRAKE) [7]																															
	5	2025	NAVY	207	0	207																									207
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	**P-1 Line Item Number / Title:** 5509 / EOD Equipment	**Item Number / Title [DODIC]:** 1 / EOD - CREW Equipment

Cost Elements (Units in Each)							Fiscal Year 2020												Fiscal Year 2021												BALANCE
							Calendar Year 2020												Calendar Year 2021													
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1.1.1) EOD ROBOTICS																															
	1	2020	NAVY	91	0	91								A -	-	-	-	-	-	-	-	-	-	-	91						0
	1	2021	NAVY	64	0	64																		A -	-	-	-	-	-	-	64
	1	2023	NAVY	18	0	18																									18
	1	2024	NAVY	81	0	81																									81
3.1.1) JOINT CREW [4]																															
	2	2016	NAVY	25	25	0																									0
✓	2	2017	NAVY	577	577	0																									0
✓	2	2018	NAVY	35	0	35	-	-	10	10	10	5																			0
3.1.2) TECH INSERTION and REFRESH [5]																															
	3	2023	NAVY	112	0	112																									112
	3	2024	NAVY	47	0	47																									47
3.1.3) AN/PLT-6(V)1 SYSTEMS [6]																															
	4	2025	NAVY	121	0	121																									121
4.1.1) COUNTER UNMANNED AIRCRAFT SYSTEMS (CUAS/DRAKE) [7]																															
	5	2025	NAVY	207	0	207																									207
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	P-1 Line Item Number / Title: 5509 / EOD Equipment	Item Number / Title [DODIC]: 1 / EOD - CREW Equipment

Cost Elements (Units in Each)							Fiscal Year 2022												Fiscal Year 2023											BALANCE
							Calendar Year 2022												Calendar Year 2023											
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1.1.1) EOD ROBOTICS																														
	1	2020	NAVY	91	91	0																								0
	1	2021	NAVY	64	0	64	-	-	-	-	-	64																		0
	1	2023	NAVY	18	0	18																	A -	-	-	-	-	-	-	18
	1	2024	NAVY	81	0	81																								81
3.1.1) JOINT CREW [4]																														
	2	2016	NAVY	25	25	0																								0
✓	2	2017	NAVY	577	577	0																								0
✓	2	2018	NAVY	35	35	0																								0
3.1.2) TECH INSERTION and REFRESH [5]																														
	3	2023	NAVY	112	0	112																						A -	-	-	112
	3	2024	NAVY	47	0	47																								47
3.1.3) AN/PLT-6(V)1 SYSTEMS [6]																														
	4	2025	NAVY	121	0	121																								121
4.1.1) COUNTER UNMANNED AIRCRAFT SYSTEMS (CUAS/DRAKE) [7]																														
	5	2025	NAVY	207	0	207																								207
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	P-1 Line Item Number / Title: 5509 / EOD Equipment	Item Number / Title [DODIC]: 1 / EOD - CREW Equipment

Cost Elements (Units in Each)							Fiscal Year 2024												Fiscal Year 2025												BALANCE
							Calendar Year 2024												Calendar Year 2025													
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1.1.1) EOD ROBOTICS																															
	1	2020	NAVY	91	91	0																									0
	1	2021	NAVY	64	64	0																									0
	1	2023	NAVY	18	0	18	-	-	-	-	-	18																			0
	1	2024	NAVY	81	0	81	A -	-	-	-	-	-	-	-	-	-	-	-	81												0
3.1.1) JOINT CREW [4]																															
	2	2016	NAVY	25	25	0																									0
✓	2	2017	NAVY	577	577	0																									0
✓	2	2018	NAVY	35	35	0																									0
3.1.2) TECH INSERTION and REFRESH [5]																															
	3	2023	NAVY	112	0	112	-	-	-	-	-	-	-	-	-	-	-	-	-	19	19	19	19	19	17						0
	3	2024	NAVY	47	0	47				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	8	8	7
3.1.3) AN/PLT-6(V)1 SYSTEMS [6]																															
	4	2025	NAVY	121	0	121																A -	-	-	-	-	-	-	-	15	106
4.1.1) COUNTER UNMANNED AIRCRAFT SYSTEMS (CUAS/DRAKE) [7]																															
	5	2025	NAVY	207	0	207																A -	-	-	-	-	-	-	-	-	207
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	P-1 Line Item Number / Title: 5509 / EOD Equipment	Item Number / Title [DODIC]: 1 / EOD - CREW Equipment

Cost Elements (Units in Each)							Fiscal Year 2026												Fiscal Year 2027												BALANCE
							Calendar Year 2026												Calendar Year 2027													
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1.1.1) EOD ROBOTICS																															
	1	2020	NAVY	91	91	0																									0
	1	2021	NAVY	64	64	0																									0
	1	2023	NAVY	18	18	0																									0
	1	2024	NAVY	81	81	0																									0
3.1.1) JOINT CREW [4]																															
	2	2016	NAVY	25	25	0																									0
✓	2	2017	NAVY	577	577	0																									0
✓	2	2018	NAVY	35	35	0																									0
3.1.2) TECH INSERTION and REFRESH [5]																															
	3	2023	NAVY	112	112	0																									0
	3	2024	NAVY	47	40	7	7																								0
3.1.3) AN/PLT-6(V)1 SYSTEMS [6]																															
	4	2025	NAVY	121	15	106	15	15	15	15	15	15	16																		0
4.1.1) COUNTER UNMANNED AIRCRAFT SYSTEMS (CUAS/DRAKE) [7]																															
	5	2025	NAVY	207	0	207	-	-	-	-	-	-	-	30	30	30	30	30	30	27											0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

Exhibit P-21, Production Schedule: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	**P-1 Line Item Number / Title:** 5509 / EOD Equipment	**Item Number / Title [DODIC]:** 1 / EOD - CREW Equipment

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
					Initial				Reorder			
		MSR For 2025	1-8-5 For 2025	MAX For 2025	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	FLIR - Boston, MA			TBD	0	0	0	0	0	0	0	0
2	NORTHROP GRUMMAN - San Diego, CA			TBD	0	0	0	0	0	0	0	0
3	NORTHROP GRUMMAN - San Diego, CA			TBD	0	0	0	0	0	0	0	0
4	PARRY LABS - Columbia, MD			TBD	0	0	0	0	0	0	0	0
5	NORTHROP GRUMMAN - San Diego, CA			TBD	0	0	0	0	0	0	0	0

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

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 6: Other Ordnance Support Equipment	**P-1 Line Item Number / Title:** 5510 / Directed Energy Systems

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	0.000	0.000	0.000	3.817	0.000	3.817	2.991	0.000	0.000	0.000	12.510	19.318
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	0.000	0.000	0.000	3.817	0.000	3.817	2.991	0.000	0.000	0.000	12.510	19.318
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**0.000**	**0.000**	**0.000**	**3.817**	**0.000**	**3.817**	**2.991**	**0.000**	**0.000**	**0.000**	**12.510**	**19.318**
(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:

Directed Energy Weapon Systems consist of multiple breakthrough technologies including laser weapons that provide for speed-of-light engagements at tactically significant ranges resulting in savings realized by minimizing the use of defensive missiles and projectiles, allowing for non-lethal determination of threat intent beyond small arms fire ranges.

The AN/SEQ-4 Optical Dazzler Interdictor Navy (ODIN) program was initiated in FY18 in response to an urgent Fleet Counter Intelligence, Surveillance, and Reconnaissance (C-ISR) gap. ODIN's primary mission is C-ISR capability against Electro-Optical/Infra-Red (EO/IR) sensors, is queued from a one-way CEC track feed, and has an ISR capability to aid the Fleet in battlespace awareness. ODIN is a shipboard system with multiple low power lasers for multi-band optical dazzling of long-range and very long-range surveillance systems. ODIN (Block I) development and installation of eight (8) systems is complete and all systems are deployed on DDG 51 Flt IIA surface combatants.

Starting in FY25, funding was reprogrammed from the Lasers for Navy Applications (LNA) RDT&E,N PE 0603925N, PU 9823 to OPN BLI 5510 to support AN/SEQ-4 Optical Dazzler Interdictor Navy (ODIN) Systems. ODIN provides directed energy, shipboard Counter-Intelligence, Surveillance, and Reconnaissance (C-ISR) capabilities to the Fleet to dazzle Unmanned Aerial Systems (UASs) and other platforms that address urgent operational needs of the Fleet.

[P40A / DE001 - DIRECTED ENERGY SYSTEMS]: The AN/SEQ-4 Optical Dazzler Interdictor Navy (ODIN) program was initiated in FY18 in response to an urgent Fleet Counter Intelligence, Surveillance, and Reconnaissance (C-ISR) gap. ODIN's primary mission is C-ISR capability against Electro-Optical/Infra-Red (EO/IR) sensors, is queued from a one-way CEC track feed, and has an ISR capability to aid the Fleet in battlespace awareness. ODIN is a shipboard system with multiple low power lasers for multi-band optical dazzling of long-range and very long-range surveillance systems. ODIN (Block I) development and installation of eight (8) systems is complete and all systems are deployed on DDG 51 Flt IIA surface combatants.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 6: Other Ordnance Support Equipment	**P-1 Line Item Number / Title:** 5510 / Directed Energy Systems

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	DIRECTED ENERGY SYSTEMS				- / 0.000	- / -	- / -	- / 3.817	- / -	- / 3.817
P-40	**Total Gross/Weapon System Cost**				**- / 0.000**	**- / 0.000**	**- / 0.000**	**- / 3.817**	**- / 0.000**	**- / 3.817**

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	P-1 Line Item Number / Title: 5510 / Directed Energy Systems	Aggregated Items Title: DIRECTED ENERGY SYSTEMS

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) DE001 - DIRECTED ENERGY SYSTEMS																				
1.1) ILS/ PRODUCTION SUPPORT [1]	A		-	-	-	-	-	-	-	-	-	-	-	0.517	-	-	-	-	-	0.517
1.2) ENGINEERING CHANGE PROPOSALS (ECPS) [2]	A		-	-	-	-	-	-	-	-	-	-	-	1.400	-	-	-	-	-	1.400
1.3) SPARES [3]	A		-	-	-	-	-	-	-	-	-	-	-	1.800	-	-	-	-	-	1.800
1.4) TECH REFRESH [4]	A		-	-	-	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
Subtotal: 1) DE001 - DIRECTED ENERGY SYSTEMS			**-**	**-**	***0.000***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	***3.817***	**-**	**-**	**-**	**-**	**-**	***3.817***
Total			**-**	**-**	**0.000**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**3.817**	**-**	**-**	**-**	**-**	**-**	**3.817**

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

Footnotes:

[1] FY25 ILS/Production funding is required to maintain the Government capability to perform repairs on system components that have failed during shipboard operations, provide Government Failure Reporting Analysis and Corrective Action System (FRACAS) support, and obtain the hardware and software maintenance required to continuously operate the system.

[2] FY25 Engineering Change Proposal (ECP) funding will address previously known, emergent, and anticipated reliability and other Fleet generated emergent issues. In FY25, ECPs will be awarded for Non-Recurring Engineering (NRE) cost associated with the engineering changes for system components due to obsolescence of critical parts and technology.

[3] FY25 Spares funding will support the procurement of long lead time spares and repair parts for critical system components that will address onboard failures.

[4] FY25 Tech Refresh funding will support Government components developed in prior years that will be replaced by available (newer) components/sub-systems and will update the configuration infrastructure necessary to maintain operational readiness and improve system performance.

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Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 6: Other Ordnance Support Equipment	**P-1 Line Item Number / Title:** 5543 / Items Less Than $5 Million

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	102.058	4.751	6.171	3.193	0.000	3.193	3.653	3.723	3.817	3.897	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	102.058	4.751	6.171	3.193	0.000	3.193	3.653	3.723	3.817	3.897	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**102.058**	**4.751**	**6.171**	**3.193**	**0.000**	**3.193**	**3.653**	**3.723**	**3.817**	**3.897**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Items Less Than $5 Million procures generic (non-weapons systems specific) test equipment needed to assess the effects of aging and exposure to environmental conditions on Navy weapons systems and ordnance such as mines, gun ammunition, missiles, pyrotechnics, demolition systems/devices, bombs, and torpedoes throughout the in-service portion of their life cycle and will be located at NAVSEA engineering field activities. Requirements for the test equipment come from a need to replace or modernize obsolete or economically non-repairable equipment or to acquire new or expanded generic test capabilities when new evaluation techniques or process are needed. The equipment procured by these funds are generally "one of a kind" and are used to support generic Navy weapons systems and ordnance types. Weapons systems specific equipment is procured/funded via the individual weapons system Program Management offices. After the weapon specific equipment has entered the inventory, these funds adapt the capability, if feasible, to become more generic and support more than one weapon system. This reduces the overall economic burden to the Navy.

RA005 - FLEET MINE SUPPORT EQUIPMENT: Mine Countermeasure (MCM) Targets are used to physically and electronically emulate foreign mine threats for Fleet training, exercises, ranges, and platform and system validation. Instrumented MCM targets can be programmed to behave and function like real foreign mine threats for mine sweeping and platform validation whereas non-instrumented MCM targets emulate foreign threats physically for mine hunting, mine neutralization, and system validation.

RA003 - INDUSTRIAL FACILITIES: Description: Provides funding for the procurement of industrial equipment in support of core manufacturing and production requirements at the Government-Owned/ Contractor- Operated (GOCO) Naval Industrial Reserve Ordnance Plant (NIROP) Allegany Ballistics Laboratory (ABL) located in Rocket Center, WV. NIROP ABL is a key U.S. military industrial facility that is the source of tactical missile propulsion systems, fuzes, conventional warheads, metal and composite structures and precision projectiles in accordance with the Defense Industrial Reserve Act (10 USC 2535). Supports environmental, safety, energy conservation, and major repair projects at the GOCO facility.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 6: Other Ordnance Support Equipment	**P-1 Line Item Number / Title:** 5543 / Items Less Than $5 Million

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	Items Less Than $5 Million				- / 102.058	- / 4.751	- / 6.171	- / 3.193	- / -	- / 3.193
P-40	**Total Gross/Weapon System Cost**				**- / 102.058**	**- / 4.751**	**- / 6.171**	**- / 3.193**	**- / 0.000**	**- / 3.193**

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
FY25 funding supports the Fleet Mine Support Equipment program, as well as the procurement of an Automatic Bar Machine to be used to fabricate metal parts to support rocket motor and warhead production. This new machine will support continued efforts to maintain efficiency in the manufacturing process as it replaces shop equipment nearing the end of useful life.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	P-1 Line Item Number / Title: 5543 / Items Less Than $5 Million	Aggregated Items Title: Items Less Than $5 Million

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) MAINTENANCE SUPPORT ACTIVITIES																				
1.1) RA004 - QUALITY EVAL TECH & EQUIPMENT (QETE)	B		-	-	26.094	-	-	1.250	-	-	1.268	-	-	-	-	-	-	-	-	-
1.2) Rolling Stock on behalf of USFFC	A		-	-	1.187	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3) USFFC - ORDNANCE MATERIAL HANDLING EQUIPMENT (BSO 60)	A		-	-	0.482	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.4) USFFC - LOCOMOTIVE REPLACEMENT (BSO 60)	A		-	-	1.651	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.5) USFFC - ROLLING STOCK RAIL CARS (BSO 60)	A		-	-	1.029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) MAINTENANCE SUPPORT ACTIVITIES			**-**	**-**	***30.443***	**-**	**-**	***1.250***	**-**	**-**	***1.268***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2) MINE COUNTERMEASURES FORCES																				
2.1) RA005 - FLEET MINE SUPPORT EQUIPMENT	B		-	-	22.649	-	-	2.661	-	-	2.809	-	-	2.646	-	-	-	-	-	2.646
Subtotal: 2) MINE COUNTERMEASURES FORCES			**-**	**-**	***22.649***	**-**	**-**	***2.661***	**-**	**-**	***2.809***	**-**	**-**	***2.646***	**-**	**-**	**-**	**-**	**-**	***2.646***
3) FRIGATES - MISSILE																				
3.1) RA006 - GRIFFIN MISSILE SYSTEM (GMS)	A		-	-	24.639	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.2) RA007 - GRIFFIN MISSILE SYSTEM (GMS) INITIAL TECHNICAL REFRESH	A		-	-	6.313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.3) RA008 - FFG-FRIGATE OTHER GOVERNMENT FURNISHED EQUIPMENT (GFE)	A		-	-	-	-	-	0.306	-	-	1.553	-	-	-	-	-	-	-	-	-
Subtotal: 3) FRIGATES - MISSILE			**-**	**-**	***30.952***	**-**	**-**	***0.306***	**-**	**-**	***1.553***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
4) PATROL COMBATANTS																				
4.1) RA007 - GRIFFIN MISSILE SYSTEM (GMS)	A		-	-	6.817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 6	**P-1 Line Item Number / Title:** 5543 / Items Less Than $5 Million	**Aggregated Items Title:** Items Less Than $5 Million

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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)
INITIAL TECHNICAL REFRESH																				
Subtotal: 4) PATROL COMBATANTS			**-**	**-**	***6.817***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
5) TOMAHAWK AND TOMAHAWK MISSILE PLANNING CENTER																				
5.1) RA003 - INDUSTRIAL FACILITIES	A		3,732K	3	11.197	534,000.00	1	0.534	541,000.00	1	0.541	547,000.00	1	0.547	-	-	-	547,000.00	1	0.547
Subtotal: 5) TOMAHAWK AND TOMAHAWK MISSILE PLANNING CENTER			**-**	**-**	***11.197***	**-**	**-**	***0.534***	**-**	**-**	***0.541***	**-**	**-**	***0.547***	**-**	**-**	**-**	**-**	**-**	***0.547***
Total			**-**	**-**	**102.058**	**-**	**-**	**4.751**	**-**	**-**	**6.171**	**-**	**-**	**3.193**	**-**	**-**	**-**	**-**	**-**	**3.193**

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

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	**P-1 Line Item Number / Title:** 5530 / Anti-ship Missile Decoy System

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	186.502	86.091	56.630	95.557	0.000	95.557	127.763	140.854	139.394	132.170	1,583.960	2,548.921
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	186.502	86.091	56.630	95.557	0.000	95.557	127.763	140.854	139.394	132.170	1,583.960	2,548.921
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**186.502**	**86.091**	**56.630**	**95.557**	**0.000**	**95.557**	**127.763**	**140.854**	**139.394**	**132.170**	**1,583.960**	**2,548.921**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	3.375	-	3.375	-	-	-	-	-	3.375
Flyaway Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Anti-Ship Missile Decoy Program covers a family of decoys and the equipment to deploy them. It is an essential element of the Anti-Ship Missile (ASM) Defense tactics to counter the threat of enemy homing missiles. Nulka is a joint program with Australia, and is currently in service with the Australian, Canadian, and United States Navies. Nulka consists of the Decoy Launching System (DLS) (MK 53) and Offboard Active Decoy (MK 234). This line contains various equipment and subsystems for a system which will provide the capability to defeat the effectiveness of hostile Anti-Ship cruise missiles. The MK 53 DLS consists of a Decoy Launch Processer (DLP), launching power supplies, and from two to six launchers depending on the ship class. Each launcher is capable of storing and launching two Nulka decoys. The MK 53 DLS provides the launch authorization and flight demands to the Nulka decoy when a Nulka engagement is initiated by the EW operator. The MK 53 DLS has been installed on the CG 47, CVN 68, DDG 51, FFG 7, LSD 41 and LSD 49 Classes in prior years.

AOEW (AN/ALQ-248) provides a new persistent Electronic Attack capability for countering legacy and modern ASMs, enabling earlier ASM detect-and engagement timeline given the active decoy's extended mission profile and optimal placement relative to the intended target. AOEW is employed on a host MH-60R/S helicopter and integrates with onboard EW systems. AOEW is fielded with Li-Ion batteries and requires a Li-Ion battery storage facility. It will be fielded on targeted platforms including: DDG, CVN, and FFG. MK-59 is an offboard decoy designed to counter ASM threats. It is a currently fielded system on DDGs. A shipset consists of three launching platforms, six launchers, and six pre-loaded decoys. Infrastructure support equipment includes three launching platforms and launcher control equipment.

The Legacy Nulka decoy consists of the kit assembly, rocket motor assembly (RMAs), canister assembly and legacy payload. The legacy Nulka decoy can no longer be procured due to obsolescence issues which will be addressed by new production of kit assemblies (VV200) and RMAs (VV201). Legacy payload obsolescence issues will be addressed by procurement of Nulka payloads (VV005).

VV003: Funding is for Engineering Change Proposals (ECPs)/Ordnance Alterations (ORDALT) to address obsolescence, quality assurance, reliability, safety, Electromagnetic Interference (EMI), and diminishing manufacturing source issues. ECP funding will support DLS hardware updates including Circuit Card Assembly (CCA) redesigns and Power Supply System (PSS) modernization. Logistics funding will support maintenance of decoy and special purpose test equipment, non-recurring costs to produce engineering equipment, and configuration management tools for Flight Control Units, Propulsion Igniter Units, Thrust Control Units, Thermal Batteries, Spin Control Units and Rocket Motor Assemblies.

VV830: Funding is for Production Engineering support to the MK 234 Nulka Decoy, Nulka Kit Assemblies, Rocket Motor Assembly and Nulka Payloads.

VV500: Funding is for procurement of ALQ-248 pods and spares, as well as Battery room installation planning and installations, ship integration, modeling and simulation, engineering and Production Support. Subsequent to the PB24 budget request, funding for procurement of two (2) Mass Models was removed from the budget as the units will not be required to support NAVAIR training activities as originally planned.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	**P-1 Line Item Number / Title:** 5530 / Anti-ship Missile Decoy System	
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A		

Production Support efforts include: Program Management support training material updates (Integrated Electronic Technical Manuals (IETM)), systems user manual, operational training materials), System of Systems integration and sparing support.

VV200: Funding is for procurement of Nulka Kit Assemblies (includes varying quantities and combinations of: Flight Control Units, Propulsion Igniter Units, Thrust Control Units, Spin Control Units, and Thermal Batteries based on requirements). The Nulka Kit Assembly procurements are critical to extend the in-service life of the Nulka Round.

VV201: Funding is for procurement of Rocket Motor Assembly. The Rocket Motor Assembly (RMA) procurements are critical to extend the in-service life of the Nulka Round.

VV005: Funding is for procurement of Nulka Modified Payload and Nulka Payloads.

VV600: VV600: Funding is for procurement of MK-59 decoy systems plus government production support and installations.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	**P-1 Line Item Number / Title:** 5530 / Anti-ship Missile Decoy System
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A — **Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A	

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	5530 - ANTI SHIP MISSILE DECOY SYSTEM	P-5a			- / 175.999	- / 86.091	- / 56.630	- / 95.557	- / -	- / 95.557
P-3a	1 / VV001 NULKA SYSTEMS (TBD)				- / 10.503	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
P-40	**Total Gross/Weapon System Cost**				**- / 186.502**	**- / 86.091**	**- / 56.630**	**- / 95.557**	**- / 0.000**	**- / 95.557**

Exhibits Schedule					FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	5530 - ANTI SHIP MISSILE DECOY SYSTEM	P-5a			- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / VV001 NULKA SYSTEMS (TBD)				- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 10.503
P-40	**Total Gross/Weapon System Cost**				**- / 127.763**	**- / 140.854**	**- / 139.394**	**- / 132.170**	**- / 1,583.960**	**- / 2,548.921**

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5530 / Anti-ship Missile Decoy System	**Aggregated Items Title:** 5530 - ANTI SHIP MISSILE DECOY SYSTEM

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) VV002 - NULKA DECOYS																				
1.1) Nulka Decoys	A		2,274K	1	2.274	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 1) VV002 - NULKA DECOYS			**-**	**-**	***2.274***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2) VV003 - ENG CHANGE PROPOSALS (ECPs)/ILS SUPPORT																				
2.1) ECPs [1]	A		-	-	7.512	-	-	1.469	-	-	1.503	-	-	1.583	-	-	-	-	-	1.583
2.2) Logistics/ Production Support	A		-	-	14.394	-	-	3.301	-	-	3.366	-	-	3.255	-	-	-	-	-	3.255
Subtotal: 2) VV003 - ENG CHANGE PROPOSALS (ECPs)/ILS SUPPORT			**-**	**-**	***21.906***	**-**	**-**	***4.770***	**-**	**-**	***4.869***	**-**	**-**	***4.838***	**-**	**-**	**-**	**-**	**-**	***4.838***
3) VV830 - PRODUCTION ENGINEERING																				
3.1) Production Engineering [2]	A		-	-	6.353	-	-	4.136	-	-	4.228	-	-	4.348	-	-	-	-	-	4.348
Subtotal: 3) VV830 - PRODUCTION ENGINEERING			**-**	**-**	***6.353***	**-**	**-**	***4.136***	**-**	**-**	***4.228***	**-**	**-**	***4.348***	**-**	**-**	**-**	**-**	**-**	***4.348***
4) VV500 - ADVANCED OFFBOARD/EW [3]																				
4.1) AOEW: AN/ ALQ-248 Pods [4](†)	A		9,988K	4	39.953	12,907K	1	12.907	11,513K	2	23.025	14,280K	1	14.280	-	-	-	14,280K	1	14.280
4.2) AOEW: Production Support [5]	A		-	-	2.449	-	-	4.712	-	-	2.471	-	-	1.568	-	-	-	-	-	1.568
4.3) AOEW: Ship Installation Planning [6]	A		-	-	-	-	-	0.669	-	-	0.408	-	-	0.714	-	-	-	-	-	0.714
4.4) AOEW: Ship Integration [7]	A		-	-	-	-	-	-	-	-	0.561	-	-	1.010	-	-	-	-	-	1.010
4.5) AOEW: Modeling & Simulation [8]	A		-	-	-	-	-	-	-	-	1.938	-	-	2.200	-	-	-	-	-	2.200
4.6) AOEW: Spares [9]	A		-	-	-	-	-	4.066	-	-	0.510	-	-	4.717	-	-	-	-	-	4.717
4.7) AOEW: Engineering Services [10]	A		-	-	0.564	-	-	6.746	-	-	0.587	-	-	3.220	-	-	-	-	-	3.220
4.8) AOEW Ship Installation [11]	A		-	-	-	-	-	1.000	-	-	-	-	-	5.900	-	-	-	-	-	5.900
Subtotal: 4) VV500 - ADVANCED OFFBOARD/EW			**-**	**-**	***42.966***	**-**	**-**	***30.100***	**-**	**-**	***29.500***	**-**	**-**	***33.609***	**-**	**-**	**-**	**-**	**-**	***33.609***
5) VV200 - NULKA KIT ASSEMBLIES																				
5.1) Nulka Kit Assemblies [12](†)	A		183,706.77	133	24.433	311,346.15	52	16.190	333,214.29	14	4.665	341,956.52	23	7.865	-	-	-	341,956.52	23	7.865
Subtotal: 5) VV200 - NULKA KIT ASSEMBLIES			**-**	**-**	***24.433***	**-**	**-**	***16.190***	**-**	**-**	***4.665***	**-**	**-**	***7.865***	**-**	**-**	**-**	**-**	**-**	***7.865***

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5530 / Anti-ship Missile Decoy System	**Aggregated Items Title:** 5530 - ANTI SHIP MISSILE DECOY SYSTEM

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) VV201 - ROCKET MOTOR ASSEMBLY (RMA)																				
6.1) Rocket Motor Assembly (RMA) (13)(†)	A		130,566.84	187	24.416	131,410.00	100	13.141	133,680.00	100	13.368	135,859.15	71	9.646	-	-	-	135,859.15	71	9.646
Subtotal: 6) VV201 - ROCKET MOTOR ASSEMBLY (RMA)			**-**	**-**	***24.416***	**-**	**-**	***13.141***	**-**	**-**	***13.368***	**-**	**-**	***9.646***	**-**	**-**	**-**	**-**	**-**	***9.646***
7) VV202 - CANISTER ASSEMBLY																				
7.1) Canister Assembly	A		53,000.00	60	3.180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 7) VV202 - CANISTER ASSEMBLY			**-**	**-**	***3.180***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
9) VV005 - NULKA PAYLOAD																				
9.1) Nulka Payload (14)(†)	A		539,957.14	70	37.797	572,709.00	31	17.754	-	-	-	-	-	-	-	-	-	-	-	-
9.2) Nulka Modified Payload	A		1,267K	10	12.674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: 9) VV005 - NULKA PAYLOAD			**-**	**-**	***50.471***	**-**	**-**	***17.754***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
10) VV600 - MK 59																				
10.1) MK-59 Decoy and Launcher (15)(†)	A		-	-	-	-	-	-	-	-	-	500,000.00	46	23.000	-	-	-	500,000.00	46	23.000
10.2) MK-59 Production Support (16)	A		-	-	-	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	0.500
10.3) MK-59 Installation Planning (17)	A		-	-	-	-	-	-	-	-	-	-	-	1.200	-	-	-	-	-	1.200
10.4) MK-59 Installations (18)	A		-	-	-	-	-	-	-	-	-	-	-	9.551	-	-	-	-	-	9.551
10.5) MK-59 MLCP Obsolescence (19)	A		-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
Subtotal: 10) VV600 - MK 59			**-**	**-**	***0.000***	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	***35.251***	**-**	**-**	**-**	**-**	**-**	***35.251***
Total			**-**	**-**	**175.999**	**-**	**-**	**86.091**	**-**	**-**	**56.630**	**-**	**-**	**95.557**	**-**	**-**	**-**	**-**	**-**	**95.557**

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

(†) indicates the presence of a P-5a

Footnotes:

(1) VV003 - FY25 funding is for Engineering Change Proposals (ECPs)/Ordnance Alterations (ORDALT) to address obsolescence, quality assurance, reliability, safety, Electromagnetic Interference (EMI), and diminishing manufacturing source issues. ECP funding will support DLS hardware updates including Circuit Card Assembly (CCA) redesigns and Power Supply System (PSS) modernization. Logistics funding will support maintenance of decoy and special purpose

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5530 / Anti-ship Missile Decoy System	**Aggregated Items Title:** 5530 - ANTI SHIP MISSILE DECOY SYSTEM

test equipment, non-recurring costs to produce engineering equipment, and configuration management tools for Flight Control Units, Propulsion Igniter Units, Thrust Control Units, Thermal Batteries, Spin Control Units and Rocket Motor Assemblies.

(2) VV830 - FY25 Production Engineering efforts support MK 234 Nulka Decoy, Nulka Kit Assemblies, Rocket Motor Assembly and Nulka Payloads.

(3) Since the FY24 budget request, AOEW Mass Models have been removed from the budget to fund higher priority AOEW efforts.

(4) VV500[4.1] - Funding across the FYDP is for procurement of AOEW AN/ALQ-248 Pods. For the FY24 procurement, in order to achieve a potential volume discount, FY23 and FY24 funds will be bundled. The final unit cost for FY23 and FY24 will be determined through negotiations during the FY24 sole source award. In FY25, the quantity of units procured decreases compared to FY24 due to re-prioritization of FY25 funds to begin installations. The Pod unit cost in FY25 increases relative to FY24 as a result of the decrease in procurement quantity and a corresponding reduction in economies of scale that would otherwise be realized.

(5) VV500[4.2] - Funding is for Production Support, pre-installation work ups and documentation, updates to training material (IETM, Systems user manual, operational training materials), System of Systems integration, depot analysis, and sparing support. Production Support funding also supports the beginning of production unit deliveries and will require integration and certification. Production Support in FY25 decreases compared to FY24 to begin installation efforts in FY25.

(6) VV500[4.3] - Funding is for Ship Installation Planning to cover advanced planning activities related to pod and battery room installation. In FY25, Ship Installation Planning increases compared to FY24 due to increases in the level of support required to complete the first ship installation occurring in FY25.

(7) VV500[4.4] - Funding is for Ship Integration, interface control drawings (ICDs), topside studies, and planning activities undertaken by SUPSHIP as AOEW prepares for installation on ship platforms. In FY25, Ship Integration increases compared to FY24 due to increases in the level of combat system integration efforts required in FY25 in advance of operational testing scheduled in FY26.

(8) VV500[4.5] - Funding is for Modeling & Simulation tactical model employment to support development and operational testing. Modeling deficiencies identified during development and testing will be updated to support operational testing currently scheduled for FY26. In FY25, Modeling & Simulation increases compared to FY24 due to increases in the level of support required to complete model updates in FY25 in advance of operational testing scheduled in FY26.

(9) VV500[4.6] - Funding is for Spares Hardware procurement to support AOEW production and fielding. In FY25, Spares Hardware procurement increases compared to FY24 to adequately provide spares to support units in production.

(10) VV500[4.7] - Funding is for Engineering Services to support Contractor efforts including Software updates and modifications, Engineering Change Proposal (ECP) activities, and LRIP updates to support operational use. In FY25, funding for Engineering Services increases compared to FY24 to prepare for full rate production and operational use.

(11) VV500[4.8] - Since the FY24 budget request, funding has been added for Ship Installation to support system infrastructure modifications for storage and charging of Li-ION batteries on host ships later in the FYDP. In FY25, funding increases compared to FY24 due to significant industrial work associated with first ship install during the planned availability in FY25.

(12) VV200 - FY25 Nulka Kit Assembly funding supports critical Fleet requirements for procurements that are required to extend the in-service life of the Nulka Round. FY25 qtys and funding increase from FY24 due to Nulka service life extension requirements. Unit cost per fiscal year varies due to Kit variation.

(13) VV201 - FY25 Rocket Motor Assembly funding is required to extend the in-service life of the Nulka Round. Contractual agreements with Australia require 100-unit minimum shared buys per year. FY25 funding decreases to support higher Navy priorities, resulting in the U.S. procuring qty 71 of Rocket Motor Assemblies and Australia procuring qty 29 to meet the 100-unit requirement.

(14) VV005 - Funding is for procurement of Nulka Modified Payloads and Nulka Payloads to meet critical Fleet requirements. Funding for this line ended in FY23.

(15) VV600[10.1] - Since the FY24 budget request, funding has been added for procurement of MK-59 deployable decoy systems and additional rounds to meet critical Fleet requirements. Unit pricing is based on ROM estimates.

(16) VV600[10.2] - Since the FY24 budget request, funding has been added for Government support of MK-59 deployable decoy system Production activities.

(17) VV600[10.3] - Since the FY24 budget request, funding has been added for installation planning in advance of installation of the MK-59 deployable decoy systems.

(18) VV600[10.4] - Since the FY24 budget request, funding has been added for ship infrastructure and installations of the MK-59 deployable decoy systems.

(19) VV600[10.5] - Since the FY24 budget request, funding has been added in FY25 for Master Launch Control Panel (MLCP) obsolescence for the MK-59 deployable decoy systems.

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	P-1 Line Item Number / Title: 5530 / Anti-ship Missile Decoy System	Aggregated Items: 5530 - ANTI SHIP MISSILE DECOY SYSTEM

Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4) VV500 - ADVANCED OFFBOARD/EW												
4.1) AOEW: AN/ALQ-248 Pods (4)		2021 (20)	Lockheed Martin / Syracuse, NY	C / FFP	Washington Navy Yard	Sep 2021	Aug 2024	2	8,911K	Y		
4.1) AOEW: AN/ALQ-248 Pods (4)		2022 (21)	Lockheed Martin / Syracuse, NY	C / FFP	Washington Navy Yard	Sep 2022	Jun 2025	2	11,065K	Y		
4.1) AOEW: AN/ALQ-248 Pods (4)		2023 (22)	Lockheed Martin / Syracuse, NY	SS / FFP	Washington Navy Yard	Mar 2024	Sep 2026	1	12,907K	Y		
4.1) AOEW: AN/ALQ-248 Pods (4)		2024	Lockheed Martin / Syracuse, NY	SS / FFP	Washington Navy Yard	Mar 2024	Mar 2026	2	11,513K	Y		
4.1) AOEW: AN/ALQ-248 Pods (4)		2025	Lockheed Martin / Syracuse, NY	C / FFP	Washington Navy Yard	Sep 2025	Dec 2027	1	14,280K	Y		
5) VV200 - NULKA KIT ASSEMBLIES												
5.1) Nulka Kit Assemblies (12)		2022 (23)	BAES / AUSTRALIA	C / FFP	Canberra, Australia	Mar 2022	Jun 2025	48	297,083.00	Y		
5.1) Nulka Kit Assemblies (12)		2023 (24)	BAES / AUSTRALIA	C / FFP	Canberra, Australia	Jan 2023	Sep 2025	52	311,346.15	Y		
5.1) Nulka Kit Assemblies (12)		2024	BAES / AUSTRALIA	C / FFP	Canberra, Australia	Jan 2024	Jul 2025	14	333,214.29	Y		
5.1) Nulka Kit Assemblies (12)		2025	BAES / AUSTRALIA	C / FFP	Canberra, Australia	Jan 2025	Jul 2026	23	341,956.52	Y		
6) VV201 - ROCKET MOTOR ASSEMBLY (RMA)												
6.1) Rocket Motor Assembly (RMA) (13)		2022 (25)	BAES / AUSTRALIA	C / CPFF	Canberra, Australia	Mar 2022	Sep 2024	100	128,960.00	Y		
6.1) Rocket Motor Assembly (RMA) (13)		2023 (26)	BAES / AUSTRALIA	C / CPFF	Canberra, Australia	Dec 2022	Jun 2025	100	131,410.00	Y		
6.1) Rocket Motor Assembly (RMA) (13)		2024	BAES / AUSTRALIA	C / CPFF	Canberra, Australia	Dec 2023	Jun 2025	100	133,680.00	Y		
6.1) Rocket Motor Assembly (RMA) (13)		2025	BAES / AUSTRALIA	C / CPFF	Canberra, Australia	Dec 2024	Jun 2026	71	135,859.15	Y		
9) VV005 - NULKA PAYLOAD												
9.1) Nulka Payload (14)		2021 (27)	Harris / Clifton, NJ	SS / CPFF	Washington Navy Yard	Sep 2021	Aug 2024	32	589,719.00	Y		
9.1) Nulka Payload (14)		2022 (28)	Harris / Clifton, NJ	SS / CPFF	Washington Navy Yard	Sep 2022	Jun 2025	38	498,052.63	Y		
9.1) Nulka Payload (14)		2023 (29)	Harris / Clifton, NJ	SS / CPFF	Washington Navy Yard	Sep 2023	Sep 2026	31	572,709.00	Y		
10) VV600 - MK 59												
10.1) MK-59 Decoy and Launcher (15)		2025	TBD / Washington Navy Yard, DC	SS / FFP	Washington Navy Yard	May 2025	May 2026	46	500,000.00	Y		

Footnotes:

(20) Since the FY24 budget request, the delivery date for the FY21 Pods has been delayed due to challenges observed with production of the arrays.

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5530 / Anti-ship Missile Decoy System	**Aggregated Items:** 5530 - ANTI SHIP MISSILE DECOY SYSTEM

(21) Since the FY24 budget request, the delivery date for the FY22 Pods has been delayed due to challenges observed with production of the arrays.

(22) In order to achieve a potential volume discount, FY23 and FY24 procurements will be bundled in the FY24 sole source award and the FY23 delivery date has been adjusted accordingly. Unit prices will be determined through negotiations during the FY24 sole source award.

(23) FY22 delivery date delayed due to qualifications of FCU MKII, which will be conducted in March 2024.

(24) FY23 delivery date delayed due to qualifications of FCU MKII, which will be conducted in March 2024.

(25) FY22 funding delivery date slippage is due to lot testing failures leading to production delays. Issues during lot acceptance have been resolved.

(26) FY23 funding delivery date slippage is due to lot testing failures leading to production delays. Issues during lot acceptance have been resolved.

(27) FY21 delivery date slippage is due to delayed repair cost negotiations between L3 Harris and subcontractor.

(28) FY22 delivery date slippage is due to delayed repair cost negotiations between L3 Harris and subcontractor.

(29) FY23 delivery date slippage is due to delayed repair cost negotiations between L3 Harris and subcontractor.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	P-1 Line Item Number / Title: 5530 / Anti-ship Missile Decoy System	Modification Number / Title: 1 / VV001 NULKA SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	10.503	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.503
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	10.503	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.503
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**10.503**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**10.503**
(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:
[NULKA SYSTEMS] The MK 53 Decoy Launching System (DLS) consists of a Decoy Launch Processer (DLP), launching power supplies and from two to six launchers depending on the ship class. Each launcher is capable of storing and launching two Nulka decoys. The MK 53 DLS provides the launch authorization and flight demands to the Nulka decoy when a Nulka engagement is initiated by the EW operator. The MK 53 DLS has been installed on the CG 47, CVN 68, DDG 51, FFG 7, LSD 41 and LSD 49 Classes in prior years. FY23 concludes the final OPN installation.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5530 / Anti-ship Missile Decoy System	**Modification Number / Title:** 1 / VV001 NULKA SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: [No Model Specified]	**Modification Type:** TBD	**Related RDT&E PEs:**

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: VV001 NULKA SYSTEMS												
B Kits												
Recurring												
1.1.1) NULKA SYSTEMS - NonOrganic (30)	1 / 0.683	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.683
Subtotal: Recurring	*- / 0.683*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*- / 0.000*	*- / 0.683*
Subtotal: VV001 NULKA SYSTEMS	*1 / 0.683*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*1 / 0.683*
Subtotal: Procurement, All Modification Items	*- / 0.683*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*- / 0.000*	*- / 0.683*
Installation												
Modification Item 1 of 1: VV001 NULKA SYSTEMS	- / 9.820	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 9.820
Subtotal: Installation	*- / 9.820*	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	*- / 0.000*	*- / 9.820*
Total												
Total Cost (Procurement + Support + Installation)	**10.503**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**10.503**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5530 / Anti-ship Missile Decoy System	**Modification Number / Title:** 1 / VV001 NULKA SYSTEMS
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 1: VV001 NULKA SYSTEMS

Manufacturer Information

Manufacturer Name: Sechan Electronics, Inc.	Manufacturer Location: Lititz, PA
Administrative Leadtime *(in Months)*: 6	Production Leadtime *(in Months)*: 14

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation: AIT:: Installation Name: NULKA SYSTEMS

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 9.820	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 9.820
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 9.820	1 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	1 / 9.820

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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

Footnotes:

(30) Single FY23 install (funded with FY21 funding) is due to the availability shifting one FY to the right from FY22 to FY23.

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Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	**P-1 Line Item Number / Title:** 5661 / Submarine Training Device Mods

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

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	421.107	80.591	76.954	80.248	0.000	80.248	85.052	87.646	93.601	144.935	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	421.107	80.591	76.954	80.248	0.000	80.248	85.052	87.646	93.601	144.935	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**421.107**	**80.591**	**76.954**	**80.248**	**0.000**	**80.248**	**85.052**	**87.646**	**93.601**	**144.935**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The OPN 5661 line procures, installs and delivers training devices to eight Submarine Training Facilities. These funds support Hull, Mechanical, and Electrical (HM&E), Engineering, Navigation and Combat Control System training requirements, training system upgrades and modernization for the Submarine Weapon Systems. Training devices develop system operations from basic through advanced seamanship skills to submarine crews utilized in all submarine mission sets. Funding includes modernization of training devices to maintain compatibility with existing fleet operational equipment and to implement Trainer Enhancement Changes (TECs) as directed by the Fleet Type Commanders and Resource Sponsor (N97). Effort also includes the installation of training devices at Portsmouth Naval Shipyard for fundamental skills required for crew certification and proficiencies during extended maintenance periods.

Line item 5661 is broken into five functional areas to support submarine training: Hull Mechanical & Electrical Trainers (HM&E), Engineering Trainers, Navigation Trainers, Combat Control Acoustic Trainers and Submarine Attack Center Trainers.

[P40A / Submarine Training]: This line provides funds to procure and modernize training devices to keep them compatible with Fleet operational equipment and to implement Training Enhancement Changes (TECs) to the training systems.

[P40A / TD 100 HM&E TRAINERS]: This line procures HM&E Fleet and Team Trainer Technical Training Equipment (TTE), Training Devices (TDs) and Training Enhancement Changes (TECs). Technical Training Equipment/Training Devices sustain high fidelity training and replaces equipment beyond economical repair or procures new equipment. Funds procure Submarine High Risk Trainer subsystems to meet requirements for Submarine Ship Control Operator Trainers (SCOT), Fire Fighting Trainers, Pressurized Submarine Escape Trainers and Damage Control Wet Trainers. This line also provides configuration changes for the Submarine Multipurpose Reconfigurable Training System (MRTS). The MRTS/MRTS 3D family includes VA CLASS Torpedo Room, Emergency Diesel Generator, Weapons Launch Console Team Trainer, VISIT and C4I Radio Room trainers. These training systems and TECs are identified by the Submarine Learning Center (SLC) and approved by the Fleet Type Commanders, for use at the Submarine Training Facilities.

[P40A / TD200 ENGINEERING TRAINERS]: This line procures and installs Nuclear Propulsion Plant Fleet Interactive Display Equipment (FIDE) trainers, Virtual Interactive Display Equipment (VIDE) trainers, Virtual Fleet Training Devices, Basic Maintenance Course, Training Enhancement Changes (TECs), Multipurpose Reconfigurable Training Systems and other Navy Engineering Training devices for use at the Submarine Training Facilities. FIDE is required by NAVSEA 08 to provide advanced shore-based nuclear operator training. FIDEs support multiple ship classes and configurations at seven different geographic

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	P-1 Line Item Number / Title: 5661 / Submarine Training Device Mods	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		

sites and Portsmouth Naval Shipyard, each requiring different levels of installation work. These training systems and TECs are identified by the Submarine Learning Center (SLC) and approved by the Fleet Type Commanders, for use at the Submarine Training Facilities.

[P40A / TD 300 NAVIGATION TRAINERS]: Navigation Safety of Ship Trainer line procures Submarine Fleet and Team Navigation training devices which emulate surfaced and submerged Submarine characteristics. Navigation training systems include, but are not limited to: Virtual Reality Submarine (VRSUB), Submarine Piloting and Navigation Trainers (SPAN), Reconfigurable SPAN (RSPAN), Submarine Bridge Trainer/Integrated SPAN (SBT/ISPAN) and associated upgrades to all Homeports, Navigation Databases, Periscope Simulation (PSIM), Harbor Databases, Electronic Chart Display and Information Systems-Navy (ECDIS-N), Automated Information System (AIS) and PC-based Team Trainers including MiniSPANs and Voyage Management Systems (VMS) Labs. Single Story Bridge Trainers (LED Panel Rings) will be procured for Homeports in lieu of a MILCON project as applicable to Submarine Training Facilities space limitations. The SBT/ISPAN is comprised of Virtual Tactical, Beam Forming Sonar Simulation Trainer (VTAC-BSST), Voyage Management System (VMS), ECDIS-N, RADAR Simulation, Navigation Aids, Periscope Simulation (PSIM), and Harbor Databases. These training systems and Training Enhancement Changes (TECs) are identified by the Submarine Learning Center (SLC) and approved by the Fleet Type Commanders, for use at the Submarine Training Facilities.

[P40A / TD 400 COMBAT CONTROL ACOUSTIC TRAINERS]: This line procures Submarine Common Operational Analysis and Employment Trainer (COAET) fundamental and employment skill level, Sonar Employment Trainer (SET) and Beam Forming Sonar Simulation Trainers (BSST). These trainers provide the acoustic operator employment skills and team training for fleet requirements. Funds also provide for TECs, Virtualized Tactical Control (VTAC), Periscope Simulation (PSIM), Submarine Skills Network (SUBSKILLSNET), Weapons Control, Mission Payload Control, Advanced Processing Build (APB)/ Technical Insertion (TI),and Sonar Tactical Decision Aid (STDA) implementation. The Sonar Employment Trainer (SET) provides acoustic operator employment Fleet and team training for submarine sonar systems. 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). Live Signal Playback capability is provided from this line for the SET, COAET and Multi-Purpose Interactive Trainer (MIT) with Submarine Training And Tactics Unified Schoolhouse (STRATUS) to support distance training. COAET provides operator and introductory team training to submarine force personnel prior to entry into the Submarine Multi Mission Team Trainer (SMMTT) as well as supplemental training to off-load the heavily utilized submarine attack center trainers. COAET utilizes partial tactical builds and emulations of the latest Sonar, Combat Control, Imaging and Electronic Warfare Systems which provide an environment substantially equivalent to that found on board ship, thus enabling students to develop and maintain the attack center expertise necessary to support Fleet operations. COAET supports individual operator/pipeline training at the Submarine Training Facilities. These training systems and Training Enhancement Changes (TECs) are identified by the Submarine Learning Center (SLC) and approved by the Fleet Type Commanders, for use at the Submarine Training Facilities.

[P40A / TD 500 ATTACK CENTER TRAINERS]: SUBMARINE MULTI MISSION TEAM TRAINER (SMMTT) line procures shore based Combat System Team Trainers capable of training personnel in all aspects of submarine approach, attack and surveillance operations in a controlled, simulated environment to achieve submarine force readiness levels. The requirement is to match the shore based configuration to the fleet modernized Hardware/Software(HW/SW) tactical builds. This includes the required capability to connect Attack Centers internally or with STRATUS for dual crew training on Cooperative Engagement, Undersea Battle Problems and Extended Battle Problems as directed by the Fleet and the Aggressor Squadron. SMMTT trainer supports operator, employment, strike, and Battle Group training for enlisted and officer pipelines. SMMTT supports SSN/SSGN/SSBN crew certification and Fleet Responsive Training. SMMTT integrates the Combat Control system (CCS) AN BYG-1 and Acoustic Rapid Cots Insertion (ARCI) AN/BQQ-10 tactical hardware and software builds with the All World Environment Simulation to provide realistic simulation using Authorized Navy databases and programs. This line includes modifications to the functionality of the Periscope Simulator (PSIM) to provide common imaging training for submarine attack centers. This line also procures Electronic Surveillance Simulation Software. Submarine attack centers support real world recorded sensor data for playback in the training environment. This line also includes Engineering Production Model (EPM) to manage the additional TI/APB and Trainer Enhancement requirements as directed by the TYCOM. These training systems and Training Enhancement Changes (TECs) are identified by the Submarine Learning Center (SLC) and approved by the Fleet Type Commanders, for use at the Submarine Training Facilities.

[P3A / Submarine Attack Center Modifications]: Submarine Attack Center Modifications line upgrades hardware, software and simulation to match current Fleet configurations.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	**P-1 Line Item Number / Title:** 5661 / Submarine Training Device Mods
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** N/A — **Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: N/A	

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	Submarine Training	P-5a			- / 228.377	- / 68.941	- / 65.072	- / 68.129	- / -	- / 68.129
P-3a	1 / Submarine Attack Center Modifications (TBD)				- / 192.730	- / 11.650	- / 11.882	- / 12.119	- / 0.000	- / 12.119
P-40	**Total Gross/Weapon System Cost**				**- / 421.107**	**- / 80.591**	**- / 76.954**	**- / 80.248**	**- / 0.000**	**- / 80.248**

Exhibits Schedule					FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*	Quantity / Total Cost *(Each) / ($ M)*
P-40a	Submarine Training	P-5a			- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / Submarine Attack Center Modifications (TBD)				- / 12.360	- / 12.606	- / 12.857	- / 13.114	- / 1.658	- / 280.976
P-40	**Total Gross/Weapon System Cost**				**- / 85.052**	**- / 87.646**	**- / 93.601**	**- / 144.935**	**Continuing**	**Continuing**

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
The FY2025 budget increased to support Undersea Warfare requirements. The budget will allow us to meet fleet training needs and keep simulators aligned to the Submarine Modernization plan in each Homeport. The requirement for Fleet Responsive Team Trainers increased from three kits in FY2024 to five kits in FY2025 to meet the Fleet training needs.

TD400 COMBAT CONTROL ACOUSTIC TRAINERS -

4.1 FLEET RESPONSIVE TEAM TRAINERS - FY2025 procures four Common Operator Analysis Employment Trainers (COAET) and one Sonar Employment Trainer (SET) to support officer and enlisted pipeline training and Fleet responsive training. Supports TYCOM requirement for pipeline and accession training. FY2025 increases the number of COAETs required at SSN Homeports supporting Virginia Class submarines and procures a kit for TTF Bangor to support SEAWOLF Class training.

4.4 ENGINEERING TECH SUPPORT - FY2025 funds Cyber Security, Multi-Purpose Interactive Trainer (MIT) and Submarine Training And Tactics Unified Schoolhouse (STRATUS) engineering support. It also provides funding to include SEAWOLF Class like sensors into the TI-20 COAET for TTF Bangor.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	P-1 Line Item Number / Title: 5661 / Submarine Training Device Mods	Aggregated Items Title: Submarine Training

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) TD 100 HM&E TRAINERS																				
1.1) HIGH RISK TRAINERS (1)(†)	A		864,000.00	4	3.456	1,794K	2	3.589	1,830K	2	3.660	1,866K	2	3.733	-	-	-	1,866K	2	3.733
1.2) SUBMARINE TRAINING DEVICES (2)	A		-	-	22.513	-	-	1.663	-	-	1.696	-	-	1.729	-	-	-	-	-	1.729
1.3) SHIP CONTROL TRAINERS (3)(†)	A		1,102K	4	4.409	1,135K	2	2.270	1,157K	2	2.314	1,180K	2	2.360	-	-	-	1,180K	2	2.360
Subtotal: 1) TD 100 HM&E TRAINERS			**-**	**-**	***30.378***	**-**	**-**	***7.522***	**-**	**-**	***7.670***	**-**	**-**	***7.822***	**-**	**-**	**-**	**-**	**-**	***7.822***
2) TD200 ENGINEERING TRAINERS																				
2.1) FIDE (4)(†)	A		17,536K	2	35.072	3,580K	1	3.580	3,623K	1	3.623	3,695K	1	3.695	-	-	-	3,695K	1	3.695
2.2) VIRTUAL FLEET TRAINING DEVICES (5)(†)	A		5,146K	2	10.292	1,857K	1	1.857	1,893K	1	1.893	1,930K	1	1.930	-	-	-	1,930K	1	1.930
2.3) CURRICULA AND TRAINING MATERIALS (6)	A		-	-	0.550	-	-	0.816	-	-	0.832	-	-	0.848	-	-	-	-	-	0.848
Subtotal: 2) TD200 ENGINEERING TRAINERS			**-**	**-**	***45.914***	**-**	**-**	***6.253***	**-**	**-**	***6.348***	**-**	**-**	***6.473***	**-**	**-**	**-**	**-**	**-**	***6.473***
3) TD 300 NAVIGATION TRAINERS																				
3.1) NAVIGATION SAFETY OF SHIP TRAINERS (7)(†)	A		2,113K	7	14.791	3,808K	2	7.616	3,884K	2	7.768	3,961K	2	7.922	-	-	-	3,961K	2	7.922
3.2) SSBN SAFETY OF SHIP TRAINERS (8)(†)	A		2,326K	4	9.302	2,366K	2	4.733	1,860K	1	1.860	1,523K	1	1.523	-	-	-	1,523K	1	1.523
3.5) ENGINEERING SUPPORT (9)(†)	A		853,000.00	3	2.559	881,000.00	2	1.762	898,500.00	2	1.797	916,000.00	2	1.832	-	-	-	916,000.00	2	1.832
Subtotal: 3) TD 300 NAVIGATION TRAINERS			**-**	**-**	***26.652***	**-**	**-**	***14.111***	**-**	**-**	***11.425***	**-**	**-**	***11.277***	**-**	**-**	**-**	**-**	**-**	***11.277***
4) TD 400 COMBAT CONTROL ACOUSTIC TRAINERS																				
4.1) FLEET RESPONSIVE TEAM TRAINERS (10)(†)	A		1,227K	9	11.045	1,258K	5	6.289	1,283K	3	3.848	1,308K	5	6.541	-	-	-	1,308K	5	6.541
4.4) ENGINEERING TECH SUPPORT (11)	A		-	-	0.706	-	-	0.720	-	-	0.734	-	-	1.012	-	-	-	-	-	1.012
Subtotal: 4) TD 400 COMBAT CONTROL ACOUSTIC TRAINERS			**-**	**-**	***11.751***	**-**	**-**	***7.009***	**-**	**-**	***4.582***	**-**	**-**	***7.553***	**-**	**-**	**-**	**-**	**-**	***7.553***
5) TD 500 ATTACK CENTER TRAINERS																				

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5661 / Submarine Training Device Mods	**Aggregated Items Title:** Submarine Training

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
			Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)
5.1) SUBMARINE ATTACK CENTERS (12)(†)	A		5,730K	8	45.836	5,902K	4	23.606	6,019K	4	24.076	6,138K	4	24.550	-	-	-	6,138K	4	24.550
5.2) SSBN, SSGN, SSN EPM (13)(†)	A		3,592K	3	10.776	3,688K	2	7.375	3,761K	2	7.522	3,836K	2	7.672	-	-	-	3,836K	2	7.672
5.6) SMMTT TECH SUPPORT (14)	A		-	-	57.070	-	-	3.065	-	-	3.449	-	-	2.782	-	-	-	-	-	2.782
Subtotal: 5) TD 500 ATTACK CENTER TRAINERS			**-**	**-**	***113.682***	**-**	**-**	***34.046***	**-**	**-**	***35.047***	**-**	**-**	***35.004***	**-**	**-**	**-**	**-**	**-**	***35.004***
Total			**-**	**-**	**228.377**	**-**	**-**	**68.941**	**-**	**-**	**65.072**	**-**	**-**	**68.129**	**-**	**-**	**-**	**-**	**-**	**68.129**

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

(†) indicates the presence of a P-5a

Footnotes:

(1) 1.1 HIGH RISK TRAINERS - FY2025 funding supports procurement of two Firefighting Trainer equipment suites in order to meet Fleet training requirements.

(2) 1.2 SUBMARINE TRAINING DEVICES - FY2025 procures Atmosphere Control Equipment upgrades to the simulator and Instructor Operator Station.

(3) 1.3 SHIP CONTROL TRAINERS - FY2025 procures two SSN Ship Control Operator Trainer Technical Refreshes. TYCOM Requirement.

(4) 2.1 FIDE - FY2025 procures Submarine Basic Maintenance Course and FIDE training laboratories and training devices required to support Nuclear Maintenance and operator training. Includes site survey, site preparation, modernization and trainer delivery for S6G, S8G, S9G, A4W, A1B and CVN77 Nuclear Power Operator Trainers. SEA08/TYCOM requirement.

(5) 2.2 VIRTUAL FLEET TRAINING DEVICES - FY2025 procures a Virtual Fleet Training Device including a training laboratory and training equipment required to support virtual reality and augmented reality Fleet training. Includes site survey, site preparation, modernization and trainer delivery. TYCOM requirement.

(6) 2.3 CURRICULA AND TRAINING MATERIALS - FY2025 procures curricula and training support materials for NAVSEA cognizant technical training courses of instruction. TYCOM requirement.

(7) 3.1 NAVIGATION SAFETY OF SHIP TRAINERS- FY2025 procures two modernization kits to update the Submarine Bridge Trainer for Navigation Training. TYCOM requirement.

(8) 3.2 SSBN SAFETY OF SHIP TRAINERS - FY2025 procures one SSBN Safety of Ship Trainer kit to meet the Fleet training requirements. TYCOM requirement.

(9) 3.5 ENGINEERING SUPPORT - FY2025 procures engineering support and modernization for Submarine Navigation Training devices which directly supports the Navigation Trainer Requirements.

(10) 4.1 FLEET RESPONSIVE TEAM TRAINERS - FY2025 procures four Common Operator Analysis Employment Trainers (COAET) and one Sonar Employment Trainer (SET) to support officer and enlisted pipeline training and Fleet responsive training. Supports TYCOM requirement for pipeline and accession training. FY2025 increases the number of COAETs required at SSN Homeports supporting Virginia Class submarines and procures a kit for TTF Bangor to support SEAWOLF Class training.

(11) 4.4 ENGINEERING TECH SUPPORT - FY2025 funds Cyber Security, Multi-Purpose Interactive Trainer (MIT) and Submarine Training And Tactics Unified Schoolhouse (STRATUS) engineering support. It also provides funding to include SEAWOLF Class like sensors into the TI-20 COAET for TTF Bangor.

(12) 5.1 SUBMARINE ATTACK CENTERS- FY2025 procures four Submarine Attack Center modernization efforts to include procurements related to TI/APB modernization hardware and software for SSN/SSBN/SSGN submarine attack centers. One attack center per quarter will be assembled and delivered per TYCOM approved Trainer modernization plan. These trainers are required to match trainer configuration with Tactical Fleet configuration to enable new capabilities in the Submarine Attack Centers. Trainers support crew certification, pre-deployment training, Undersea Battle Problems and Extended Battle Problems as directed by the Fleet and the Aggressor Squadron. Trainers are critical to Fleet readiness to ensure warfighters train ashore with the modernized combat, payload, acoustic, imaging, and electronic warfare systems. TYCOM requirement.

(13) 5.2 SSBN, SSGN, SSN EPM - FY2025 procures two Engineering Production Models at the Warfare Centers. This effort is critical to trainer lifecycle support, engineering changes and updates without disruption of training at the Submarine Training Facilities. Includes 688, VA, SSGN and SSBN EPMs in accordance with TYCOM approved Program of Record.

(14) 5.6 SMMTT TECH SUPPORT - FY2025 provides software and hardware technical and engineering support for Fleet requested changes and trainer enhancement changes.

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	P-1 Line Item Number / Title: 5661 / Submarine Training Device Mods	Aggregated Items: Submarine Training

Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1) TD 100 HM&E TRAINERS												
1.1) HIGH RISK TRAINERS (1)		2021	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2020	Apr 2021	2	855,500.00	Y		
1.1) HIGH RISK TRAINERS (1)		2022	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Mar 2022	Sep 2022	2	872,500.00	Y		
1.1) HIGH RISK TRAINERS (1)		2023	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2022	Apr 2023	2	1,794K	Y		
1.1) HIGH RISK TRAINERS (1)		2024	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2023	Apr 2024	2	1,830K	Y		
1.1) HIGH RISK TRAINERS (1)		2025	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2024	Apr 2025	2	1,866K	N	Oct 2024	
1.3) SHIP CONTROL TRAINERS (3)		2021	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2020	Apr 2021	2	1,092K	Y		
1.3) SHIP CONTROL TRAINERS (3)		2022	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Feb 2022	Aug 2022	2	1,113K	Y		
1.3) SHIP CONTROL TRAINERS (3)		2023	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2022	Apr 2023	2	1,135K	Y		
1.3) SHIP CONTROL TRAINERS (3)		2024	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2023	Apr 2024	2	1,157K	Y		
1.3) SHIP CONTROL TRAINERS (3)		2025	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2024	Apr 2025	2	1,180K	N	Oct 2024	
2) TD200 ENGINEERING TRAINERS												
2.1) FIDE (4)		2021	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2020	Apr 2021	1	3,538K	Y		
2.1) FIDE (4)		2022	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Apr 2022	Oct 2022	1	3,608K	Y		
2.1) FIDE (4)		2023	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2022	Apr 2023	1	3,580K	Y		
2.1) FIDE (4)		2024	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2023	Apr 2024	1	3,623K	Y		
2.1) FIDE (4)		2025	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2024	Apr 2025	1	3,695K	N	Oct 2024	
2.2) VIRTUAL FLEET TRAINING DEVICES (5)		2021	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2020	Jul 2021	1	1,786K	Y		
2.2) VIRTUAL FLEET TRAINING DEVICES (5)		2022	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Mar 2022	Sep 2022	1	1,821K	Y		
2.2) VIRTUAL FLEET TRAINING DEVICES (5)		2023	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2022	Apr 2023	1	1,857K	Y		
2.2) VIRTUAL FLEET TRAINING DEVICES (5)		2024	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2023	Apr 2024	1	1,893K	Y		
2.2) VIRTUAL FLEET TRAINING DEVICES (5)		2025	ELECTRIC BOAT / NEW LONDON	C / CPFF	** NO PCO **	Oct 2024	Apr 2025	1	1,930K	N	Oct 2024	

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	P-1 Line Item Number / Title: 5661 / Submarine Training Device Mods	Aggregated Items: Submarine Training

Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($)	Specs Avail Now?	Date Revision Available	RFP Issue Date
3) TD 300 NAVIGATION TRAINERS												
3.1) NAVIGATION SAFETY OF SHIP TRAINERS (7)		2021	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Oct 2020	Apr 2022	2	3,662K	Y		Jan 2020
3.1) NAVIGATION SAFETY OF SHIP TRAINERS (7)		2022	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Jun 2022	Dec 2023	2	3,734K	Y		Mar 2022
3.1) NAVIGATION SAFETY OF SHIP TRAINERS (7)		2023	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Oct 2022	Apr 2024	2	3,808K	Y		Oct 2022
3.1) NAVIGATION SAFETY OF SHIP TRAINERS (7)		2024	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Oct 2023	Apr 2025	2	3,884K	Y		Mar 2023
3.1) NAVIGATION SAFETY OF SHIP TRAINERS (7)		2025	NUWC NPT / NEWPORT, RI/CD	C / TBD	** NO PCO **	Oct 2024	Apr 2026	2	3,961K	N	Oct 2024	
3.2) SSBN SAFETY OF SHIP TRAINERS (8)		2021	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Sep 2021	Mar 2023	2	2,302K	Y		Jan 2020
3.2) SSBN SAFETY OF SHIP TRAINERS (8)		2022	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Jun 2022	Dec 2023	2	2,348K	Y		Jan 2021
3.2) SSBN SAFETY OF SHIP TRAINERS (8)		2023	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Oct 2022	Apr 2024	2	2,366K	Y		Feb 2022
3.2) SSBN SAFETY OF SHIP TRAINERS (8)		2024	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Oct 2023	Apr 2025	1	1,860K	Y		Feb 2023
3.2) SSBN SAFETY OF SHIP TRAINERS (8)		2025	NUWC NPT / NEWPORT, RI/CD	C / TBD	** NO PCO **	Oct 2024	Apr 2026	1	1,523K	N	Oct 2024	
3.5) ENGINEERING SUPPORT (9)		2021	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Oct 2020	Apr 2022	2	847,500.00	Y		
3.5) ENGINEERING SUPPORT (9)		2022	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Feb 2022	Aug 2023	1	864,000.00	Y		
3.5) ENGINEERING SUPPORT (9)		2023	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Oct 2022	Apr 2024	2	881,000.00	Y		
3.5) ENGINEERING SUPPORT (9)		2024	NUWC NPT / NEWPORT, RI/CD	C / CPFF	** NO PCO **	Oct 2023	Apr 2025	2	898,500.00	Y		
3.5) ENGINEERING SUPPORT (9)		2025	NUWC NPT / NEWPORT, RI/CD	C / TBD	** NO PCO **	Oct 2024	Apr 2026	2	916,000.00	N	Oct 2024	
4) TD 400 COMBAT CONTROL ACOUSTIC TRAINERS												
4.1) FLEET RESPONSIVE TEAM TRAINERS (10)		2021	NUWC NPT / NEWPORT, RI	C / CPFF	** NO PCO **	Oct 2020	Apr 2022	4	1,220K	Y		Jan 2020
4.1) FLEET RESPONSIVE TEAM TRAINERS (10)		2022	NUWC NPT / NEWPORT, RI	C / CPFF	** NO PCO **	Jun 2022	Dec 2023	5	1,233K	Y		Mar 2022
4.1) FLEET RESPONSIVE TEAM TRAINERS (10)		2023	NUWC NPT / NEWPORT, RI	C / CPFF	** NO PCO **	Oct 2022	Apr 2024	5	1,258K	Y		Jun 2022

Exhibit P-5a, Procurement History and Planning: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	P-1 Line Item Number / Title: 5661 / Submarine Training Device Mods	Aggregated Items: Submarine Training

Item Number / Title [DODIC]	OCO	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost ($)	Specs Avail Now?	Date Revision Available	RFP Issue Date
4.1) FLEET RESPONSIVE TEAM TRAINERS (10)		2024	NUWC NPT / NEWPORT, RI	C / CPFF	** NO PCO **	Oct 2023	Apr 2025	3	1,283K	Y		Mar 2023
4.1) FLEET RESPONSIVE TEAM TRAINERS (10)		2025	NUWC NPT / NEWPORT, RI	C / TBD	** NO PCO **	Oct 2024	Apr 2026	5	1,308K	N	Oct 2024	
5) TD 500 ATTACK CENTER TRAINERS												
5.1) SUBMARINE ATTACK CENTERS (12)		2021	NSWC CD / BETHESDA, MD	C / CPFF	** NO PCO **	Mar 2021	Jul 2022	4	5,673K	Y		Jan 2020
5.1) SUBMARINE ATTACK CENTERS (12)		2022	NSWC CD / BETHESDA, MD	C / CPFF	** NO PCO **	Jun 2022	Jul 2023	4	5,786K	Y		Mar 2022
5.1) SUBMARINE ATTACK CENTERS (12)		2023	NSWC CD / BETHESDA, MD	C / CPFF	** NO PCO **	Jan 2023	Jul 2024	4	5,902K	Y		Jun 2022
5.1) SUBMARINE ATTACK CENTERS (12)		2024	NSWC CD / BETHESDA, MD	C / CPFF	** NO PCO **	Jan 2024	Jul 2025	4	6,019K	Y		Jun 2023
5.1) SUBMARINE ATTACK CENTERS (12)		2025	NSWC CD / BETHESDA, MD	C / TBD	** NO PCO **	Jan 2025	Jul 2026	4	6,138K	N	Oct 2024	
5.2) SSBN, SSGN, SSN EPM (13)		2021	NUWC NPT / NEWPORT, RI	C / CPFF	** NO PCO **	Oct 2020	Apr 2022	1	3,545K	Y		Jan 2020
5.2) SSBN, SSGN, SSN EPM (13)		2022	NUWC NPT / NEWPORT, RI	C / CPFF	** NO PCO **	Jan 2022	Apr 2023	2	3,616K	Y		Jan 2021
5.2) SSBN, SSGN, SSN EPM (13)		2023	NUWC NPT / NEWPORT, RI	C / CPFF	** NO PCO **	Oct 2022	Apr 2024	2	3,688K	Y		Feb 2022
5.2) SSBN, SSGN, SSN EPM (13)		2024	NUWC NPT / NEWPORT, RI	C / CPFF	** NO PCO **	Oct 2023	Apr 2025	2	3,761K	Y		Feb 2023
5.2) SSBN, SSGN, SSN EPM (13)		2025	NUWC NPT / NEWPORT, RI	C / TBD	** NO PCO **	Oct 2024	Apr 2026	2	3,836K	N	Oct 2024	

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5661 / Submarine Training Device Mods	**Modification Number / Title:** 1 / Submarine Attack Center Modifications
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	192.730	11.650	11.882	12.119	0.000	12.119	12.360	12.606	12.857	13.114	1.658	280.976
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	192.730	11.650	11.882	12.119	0.000	12.119	12.360	12.606	12.857	13.114	1.658	280.976
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**192.730**	**11.650**	**11.882**	**12.119**	**0.000**	**12.119**	**12.360**	**12.606**	**12.857**	**13.114**	**1.658**	**280.976**
(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:
Submarine Attack Center Modifications line upgrades hardware, software and simulation to match current Fleet configurations.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5661 / Submarine Training Device Mods	**Modification Number / Title:** 1 / Submarine Attack Center Modifications
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: Submarine Attack Center Modifications supporting SMMTT procurements and deliveries.	**Modification Type:** TBD	**Related RDT&E PEs:** 0604558N

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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: Submarine Attack Center Modifications												
B Kits												
Recurring												
1.1.1) Submarine Attack Center Modifications - NonOrganic	59 / 184.552	4 / 10.830	4 / 11.046	4 / 11.266	- / -	4 / 11.266	4 / 11.491	4 / 11.720	4 / 11.954	4 / 12.193	- / -	87 / 265.052
Subtotal: Recurring	*- / 184.552*	*- / 10.830*	*- / 11.046*	*- / 11.266*	*- / -*	*- / 11.266*	*- / 11.491*	*- / 11.720*	*- / 11.954*	*- / 12.193*	*- / 0.000*	*- / 265.052*
Subtotal: Submarine Attack Center Modifications	*59 / 184.552*	*4 / 10.830*	*4 / 11.046*	*4 / 11.266*	*- / -*	*4 / 11.266*	*4 / 11.491*	*4 / 11.720*	*4 / 11.954*	*4 / 12.193*	*- / -*	*87 / 265.052*
Subtotal: Procurement, All Modification Items	*- / 184.552*	*- / 10.830*	*- / 11.046*	*- / 11.266*	*- / -*	*- / 11.266*	*- / 11.491*	*- / 11.720*	*- / 11.954*	*- / 12.193*	*- / 0.000*	*- / 265.052*
Installation												
Modification Item 1 of 1: Submarine Attack Center Modifications	- / 8.178	- / 0.820	- / 0.836	- / 0.853	- / 0.000	- / 0.853	- / 0.869	- / 0.886	- / 0.903	- / 0.921	- / 1.658	- / 15.924
Subtotal: Installation	*- / 8.178*	*- / 0.820*	*- / 0.836*	*- / 0.853*	*- / -*	*- / 0.853*	*- / 0.869*	*- / 0.886*	*- / 0.903*	*- / 0.921*	*- / 1.658*	*- / 15.924*
Total												
Total Cost (Procurement + Support + Installation)	**192.730**	**11.650**	**11.882**	**12.119**	**0.000**	**12.119**	**12.360**	**12.606**	**12.857**	**13.114**	**1.658**	**280.976**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5661 / Submarine Training Device Mods	**Modification Number / Title:** 1 / Submarine Attack Center Modifications
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 1: Submarine Attack Center Modifications

Manufacturer Information

Manufacturer Name: NSWC CD/NUWC NPT (15)	Manufacturer Location: BETHESDA, MD/ NEWPORT, RI
Administrative Leadtime *(in Months)*: 4	Production Leadtime *(in Months)*: 19

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates	Jan 2023	Jan 2024	Jan 2025	Jan 2026	Jan 2027	Jan 2028	Jan 2029
Delivery Dates	Jul 2024	Jul 2025	Jul 2026	Jul 2027	Jul 2028	Jul 2029	Jul 2030

Installation Information

Method of Implementation: AIT:: Installation Name: Submarine Attack Center Modifications

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 8.178	4 / 0.820	3 / 0.627	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	59 / 9.625
FY 2023	- / -	- / -	1 / 0.209	3 / 0.644	0 / 0.000	3 / 0.644	- / -	- / -	- / -	- / -	0 / 0.000	4 / 0.853
FY 2024	- / -	- / -	- / -	1 / 0.209	0 / 0.000	1 / 0.209	3 / 0.656	- / -	- / -	- / -	0 / 0.000	4 / 0.865
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.213	3 / 0.669	- / -	- / -	0 / 0.000	4 / 0.882
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.217	3 / 0.682	- / -	0 / 0.000	4 / 0.899
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.221	3 / 0.696	0 / 0.000	4 / 0.917
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.225	3 / 0.705	4 / 0.930
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.953	4 / 0.953
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	52 / 8.178	4 / 0.820	4 / 0.836	4 / 0.853	0 / 0.000	4 / 0.853	4 / 0.869	4 / 0.886	4 / 0.903	4 / 0.921	7 / 1.658	87 / 15.924

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	87
Out	52	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	87

Footnotes:

(15) NSWC CD & NUWC NPT are collaborating warfare centers that manage and execute the Submarine Attack Center Modifications as directed by NAVSEA. Both warfare centers function as a prime for this effort. However, for cost efficiency purposes, they compete their cognizant tasks among multiple vendors with multiple orders to provide equipment/software in a timely manner to meet the fleet required training dates. The Submarine Attack Center delivery is not linked to any single contract date.

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Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0204112N, 0804731N, 0204228N, 0204230N	Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: 000

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	817.122	203.695	209.487	179.974	0.000	179.974	236.547	201.400	192.806	191.309	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	817.122	203.695	209.487	179.974	0.000	179.974	236.547	201.400	192.806	191.309	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**817.122**	**203.695**	**209.487**	**179.974**	**0.000**	**179.974**	**236.547**	**201.400**	**192.806**	**191.309**	**Continuing**	**Continuing**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares *($ in Millions)*	-	0.864	2.482	2.172	-	2.172	1.384	2.219	1.656	1.690	Continuing	Continuing
Flyaway Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line provides funding to procure, modify, and upgrade training devices to keep them compatible with equivalent changes made to Fleet operational equipment. Funds ensure alignment between Surface Learning Centers and Fleet Concentration Area training systems and Fleet training requirements as dictated by the Surface Training Investment Plan (STIP).

SURFACE TRAINING ADVANCED VIRTUAL ENVIRONMENT (STAVE) SEAFRAME SIMULATORS
Funds provided for hardware and software associated with building Littoral Combat Ship (LCS) tactical training simulators and the installation at the LCS Training Facilities (LTF). Simulators meet the Train to Qualify/ Train to Certify (T2Q/T2C) Key Performance Parameter (KPP) requirement of the Capabilities Development Document. Trainers are required for each LCS variant (Freedom and Independence) at LCS homeports and throughput requires more than one simulator (3 training systems total) of each variant. This enables the increased throughput for ships/crew/sailors supporting crewing strategy and directly supporting the revised training requirements of the Navy's Comprehensive Review.

Total Ship Training Capability (TSTC) formerly MB040 - BFTT/ATD SHIP SETS/ TSTC
Funding supports Total Ship Training Capability (TSTC) training formerly MB040 - BFTT/ATD SHIP SETS/TSTC. The program includes Battle Force Tactical Training (BFTT), Advanced Training Domain (ATD), Fleet Training Wholeness (FTW) Strike Group Cooperative Engagement Capability (CEC) Training at Sea, BFTT Electronic Warfare Trainer (BEWT), Live Virtual & Constructive (LVC) Training shipboard trainers, the Combined Integrated Air and Missile Defense (IAMD)/Anti-Submarine (ASW) Trainer (CIAT) and Surface Training Advance Virtual Environment Combat System (STAVE-CS). These systems provide a coordinated stimulation/simulation of shipboard combat systems to facilitate combat systems team training, providing the capability to conduct realistic joint warfare training across the spectrum of armed conflict, and conduct realistic unit level team training in all primary warfare areas. Hardware and software upgrades including Infrastructure as a Service (IaaS) and shipboard Enhanced Collection Systems (ECS) are required to integrate onboard tactical trainers, simulators and stimulators into a baseline to enable shipboard multi-warfare and multi-ship combat system team training capability to meet shipboard integrated training requirements.

CVN 78 Class Training Equipment
Funds provided for CVN78 Class training simulators and equipment for the Carrier Advanced Reconfigurable Training System (C-ARTS) to achieve Ready For Training (RFT) through the use of multiple mission critical CVN 78 Class Contractor Furnished Equipment (CFE) systems. Simulators or advanced training systems are needed to meet warfighter mission and safety readiness requirements. These funds support procurement and installation of hardware and software at the applicable C-ARTS sites and Centers of Excellence in Norfolk, Great Lakes, and at SWOS Newport. Class training simulators and equipment include the following: Advanced Weapons Elevators (AWEs), Machinery Control and Monitoring System (MCMS), Federated Machinery Local Area Network (FMLAN)/ Machinery Local Area Network (MLAN), Aircraft

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** 0204112N, 0804731N, 0204228N, 0204230N	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: 000		

Landing and Recovery Equipment (ALRE) Jet Blast Deflector (JBD) Electromechanical Actuators, Emergency Diesel Generators (EDGs), Modular Refrigeration Units (MRU), Steering Gear Control Systems (SGCS), Zonal Electrical Distribution System (ZEDS), Vacuum Chemical Holding Tank (VCHT), Plasma Arc Waste Destruction System (PAWDS),Weapons Elevator and Stores Elevator Electromechanical Actuators (WESEEAs) and their controllers, Aviation Fuel (JP-5) Management and Transfer System, Solid State Voltage and Frequency Converter (SSVFC), Advance Damage Control System (ADCS), Magazine Sprinkler System, Fiber Optic Cable Plant, Navigation Distribution System (NDS), Void Flooding and Damage Control Systems, Permanent Magnet Electromechanical Actuators (PMEMAs), Advanced Degaussing System (ADS), Voice and Video systems, Integrated Video and Voice Networks, and other systems that are unique to CVN 78 Class Carriers. Class Contractor Furnished Equipment (CFE) systems procured include multiple training simulators, 3D printed training aids, ship system mock-ups, electronic classrooms, intelligent tutoring systems, and use of Virtual Reality (VR), Augmented Reality (AR), and Mixed Reality (MR) training content necessary for installation at the C-ARTS training facilities.

LCAC Life Cycle Training System
Funds are provided for procurement of Ship to Shore Connector (SSC) Lifecycle Training Solution and LCAC training system modernization. Systems are needed to allow for a baseline level of knowledge for Fleet Operators and Maintainers and achieve scheduled Ready for Training (RFT). Modern training systems are necessary to meet warfighter mission and readiness requirements. These training systems include procurement of SSC Operator Lifecycle Training and Maintainer Training, including training systems (hardware), technical data, and all associated curricula. The SSC training systems to be procured include the following; Two Full Mission Trainers (FMTs), one for east coast (Expeditionary Warfare Training Group - Atlantic (ETWG-LANT)) and one for west coast (EWTG-PAC), two Advanced Electronic Classrooms (AEC), one each for EWTG-LANT and EWTG-PAC, and three Advanced Qualification Training Devices (AQTD), one at each operational unit. Curriculum includes training for Pilots, Flight Engineer, Deck Engineer, and Craft Maintainers as well as Fleet-delivered Advanced Qualification Training. This procurement completes the delivery of the required Family of Training Systems identified in the SSC Program Capability Development Document (CDD) and other programmatic documentation as the Lifecycle Training Solution for craft crew and maintenance personnel. This effort improves craft reliability and ensures adequate trainers and training infrastructure are available to support training of LCAC 100 Class crews and maintenance personnel. Funds are provided for the upgrade / modernization of the LCAC FMT, which provides essential training for the Operator, Engineer, Navigator and Group Commander of the LCAC, in the complex skills required for safe operation of the LCAC in both normal and casualty modes.

[P40A / STAVE-LCS Virtual Reality Labs, Networks & Modernization]: Funds provided for annual modernization efforts which include regular/scheduled updates/upgrades to the computer network and include procurement of new servers, relays, and switches, along with the procurement of replacement computers, monitors, keyboards, and other peripheral equipment to support increased crew throughput as additional LCS ships are delivered.

[P40A / STAVE-LCS Mission Bay Trainers & Modernization]: Funding supports the annual upgrades of the Mission Bay Trainers (MBT) to align with ship capabilities and to support training for Knifefish and Unmanned Influence Sweep System (UISS).

[P40A / STAVE-LCS Integrated Tactics Trainer (ITT) Modernization]: Funding supports necessary annual upgrades of hardware, software/firmware on 4 legacy Integrated Tactics Trainers (ITTs).

[P40A / STAVE-LCS Bridge Part Task Trainers (BPTT) & Modernization]: Funds support STAVE-LCS Bridge Part Task Trainers (BPTT). BPTTs permit selected aspects of Bridge tasks (including Readiness Control Officer [RCO] tasks) to be practiced independently of Combat Systems Operations as found in more capable Integrated Tactics Trainers (ITTs). This trainer supports Officer training pipeline at SWCS, Newport in support of Division Officer, Department Head, and PXO/PCO training pipeline for Officer of the Deck Training, as well as rapid refresh and skills enhancement at the LCS Training Facilities (LTFs). This facilitates more efficient accomplishment of T2Q and T2C objectives.

[P40A / STAVE-LCS Combat Systems Virtual Operations Trainers (CS VOT)]: Funding supports STAVE-LCS Combat Systems Virtual Operations Trainer (CS VOT) (LCS 1 and LCS 2). These devices permit training in selected aspects of Combat Systems Operations to support individual skills development and practice. The CS VOTs located in Newport, Rhode Island support Tactical Action Officer (TAO) training and qualification.

[P40A / STAVE - LCS Courseware]: Funding provided for new courses for systems without current STAVE courseware. The interactive courseware is set in a virtual ship environment and completed by students utilizing Virtual Reality Labs. This courseware supports the majority of classroom training for LCS watch stations.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** 0204112N, 0804731N, 0204228N, 0204230N	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: 000		

[P40A / LCS Individual Training Systems]: Funding supports individual training system procurement, LCS Lethality and Survivability training, and communications shortfalls to enable sustainment and operation of LCS Training Facilities

[P40A / MB040 - Combined IAMD/ASW Trainer (CIAT)]: Funding supports updates to the Combined Integrated Air and Missile Defense (IAMD) and Anti-Submarine Warfare (ASW) Trainer (CIAT) to establish a foundation for bringing this capability to AEGIS and Anti-Submarine Warfare (ASW) Baselines for ship integration to provide virtual, constructive (VC) training in a contested environment.

[P40A / MB040 - Surface Advanced Virtual Environment (STAVE)]: Funding supports STAVE infrastructure for the procurement, delivery, installation and sustainment of distributed STAVE-CS hardware suites for maintainer training, procures STAVE-CS shore based virtual operator labs, supporting over 10,000 students over the FYDP. Aggressive Fleet expansion and modernization plans for both Aegis, SSDS and SQQ-89 along with service life extension of the Fleet requires advanced distributed (via NCTE) training solutions to support increased throughput on complex concepts and capability. This requirement will provide increased student throughput, and gain efficiencies by enabling courses to be centrally conducted and distributed to remote classrooms located in fleet concentration areas.

[P40A / MB040 - Live, Virtual, and Constructive (LVC) Training]: Funds provided for Live, Virtual, and Constructive (LVC) Training priorities to establish tactically and architecturally aligned integrated tactical training updates that will be developed and fielded to surface ships. It provides a timely delivery to shore training sites to allow the sailor to train in schoolhouse facilities with tactically relevant baselines. It enables Unit and Strike Group, in-port and at-sea high-end fight combat systems tactical training and debrief for Aegis and SSDS FFG, DDG, CG, Amphibs, Carriers, and LCS. Funds support the procurement of Infrastructure as a Service (IaaS), shipboard Cooperative Engagement Capability (CEC) Embedded Trainers (CET) and shipboard Enhanced Collection Systems (ECS) for data collection and debrief, ORDALT kits and software licenses for shore sites and virtualized training in schoolhouse systems and fields an AEGIS and SSDS integrated ship and shore Live, Virtual, and Constructive (LVC) test and training architecture supporting all phases of training. Funds support shore infrastructure to support the high-fidelity Combat System Simulation/Stimulation (CS3).

[P40A / CVN 78 Class Training Equipment]: Funds provided for hardware and software associated with building the trainers' hardware and software for future installation at the applicable C-ARTS sites and Centers of Excellence.

[P40A / SSC Life Cycle Training System Procurement]: Funds support the Ship to Shore Connector (SSC) Life Cycle Training solution to include Operator and Maintainer training systems. A new SSC Life Cycle Training solution is required because the existing LCAC training systems will not support SSC crew training based on significant configuration differences

[P40A / LCAC Trainer System Upgrades and Modernization]: Funds the upgrade / modernization of the LCAC Full Motion Trainer (FMT), which provides essential training for the Operator, Engineer, Navigator and Group Commander of the LCAC, in the complex skills required for safe operation of the LCAC in both normal and casualty modes.

[P5 / TS004 Surface Training Device Mods]: This line provides funds to procure, modify and upgrade trainers to include Aegis Weapon Systems, Aegis Ashore, Littoral Combat Ship (LCS), DDG 1000, shore based Integrated Navigation, Seamanship and Ship-Handling Trainers (I-NSST), Ship Self Defense System (SSDS), AN/SQQ-89A(V)15 Anti-Submarine Warfare (ASW) Tactical Employment Trainer (ATET), North Atlantic Treaty Organization SEASPARROW Surface Missile Systems (NSSMS), and other Surface Warfare related individual and team Training Programs to include Navigation, Hull, Mechanical and Electrical (HM&E), combat systems (CS), and Amphibious and Mine Warfare (AMW) Technical Training Equipment (TTE), Training Devices, Training Unique Equipment, Training systems, and the Surface Training Advanced Virtual Environment (STAVE). Funds provide for alignment with DON Chief Information Officer (CIO) Cyber requirements. STAVE methodology provides students with an immersive and interactive learning environment as well as hands-on training equipment as part of a blended solution, which accelerates learning, improves student performance, and supports both Department of the Navy (DON) High Velocity Learning and Ready Relevant Learning intent. Funds ensure alignment between Surface Learning Centers and Fleet Concentration Area training systems and fleet training requirements as dictated by the Surface Training Investment Plan (STIP). Additionally, funds support the creation of training system's critical design review (CDR) packages as well as the establishment and improvement of ship on-board training curriculum for the purpose of maintaining perishable operator and maintenance skills.

[P5 / Navigation Trainers]: Funds are provided for modifications/upgrades to shore-based Navigation Trainers in support of the Surface Warfare Mariner Skills Training Program (MSTP). Funding addresses navigation shortfalls identified during CNO-directed Comprehensive Review following the USS John S. McCain and USS Fitzgerald collisions and provides for procurement of new trainers and modifications/ upgrades to shore based Navigation Trainers to support the modernization of all Surface Navigation, Seamanship, and Ship-handling Trainers (NSST) in all CONUS and OCONUS Fleet Concentration Areas as

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	P-1 Line Item Number / Title: 5664 / Surface Training Equipment	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0204112N, 0804731N, 0204228N, 0204230N	Other Related Program Elements: N/A
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well as various schoolhouse locations, in support of the Surface Warfare Mariner Skills Training Program (MSTP). Modernization is critical to maintaining trainer service life and will ensure all students have the necessary training devices, instructors and resources to execute the MSTP.

[P5 / AEGIS Ashore Trainer/C4I/Tech Refresh]: Funds modernization, delivery, installation and life-cycle upgrades for a high fidelity Aegis Ashore Team Trainer in support of the land-based Aegis Ashore Training Continuum. Funds also provide for the integration of a C4I component, Ballistic Missile Defense (BMD) Upgrades, and tech refresh. Also funds the training facility to train Navy Sailors who will man European Phased Adaptive Approach (EPAA) land-based BMD facilities in Poland and Romania. The Aegis Ashore Team Trainer (AATT) at Dam Neck, VA will serve as the single site for individual watch team tactical training, certification events and sustainment training for Aegis Ashore rotational crews assigned to AA BMD Host Nation Sites. Funding also supports the In-Plant Support System (IPSS) for the AATT. The AATT in Dam Neck is the only means of training and certifying crews prior to arriving at their host nation site. As an alternative to funding a second AATT, this IPSS will allow for cybersecurity requirements and some maintenance to be conducted separate from the AATT.

[P5 / Combined IAMD/ASW Trainer (CIAT)]: Funds are provided to procure and install tactical and other software licensing (all baselines), Information Assurance and routine software and hardware modifications of Combined Integrated Air and Missile Defense (IAMD)/Anti-submarine Warfare (ASW) Trainer (CIAT) and Reconfigurable Combat Information Center (CIC) training (RCT) systems and ensures alignment with DON Chief Information Officer (CIO) Cyber requirements and tactical ship modernization.

[P5 / Navy Training System Plan (NTSP TTE/TD Mods)]: Funds provided for procurement, installation, and upgrades for surface and expeditionary training systems in multiple Fleet Concentration Areas (FCA) in accordance with the results of DON directed and Fleet sponsored studies, NTSP updates, and Technical Training Audits. One of the key items identified in the Fleet Review Panel of Surface Force Readiness, LPD 17 Class Wholeness Task Force, Navigation Wholeness Study, Surface Engineering Training Wholeness Review, Littoral Combat Ship (LCS) Front End Analysis (FEA), DDG 1000 wholeness review, and LHD 8/ LHA 6 MPT analyses done by the Surface Warfare Enterprise was the outdated, or lack of, training equipment in the schoolhouses. Based on this analysis, funding supports requirements identified in approximately 80 Navy Training System Plan updates and 162 Technical Training Course Audits. This investment will be for the procurement and installation of Training Equipment at Learning Centers to keep training courses in alignment with current configuration of equipment in the fleet.
Investment ensures Surface Warfare Training Continuums are capable of meeting training requirements directly supporting readiness for systems/courses, including the following:

1. Advanced Welding
2. Diesel Engine C Schools
3. 4160 High Voltage Electrical Safety Training
4. Engineering Officer Schools
5. Ultrasonic Inspector Training
6. Senior Enlisted Engineering
7. Engineering Maintenance Principles and Practices
8. PA6B Diesel Engine Training
9. Cryogenic Systems Training
10. Hydraulic Systems and Components
11. Advanced Shipboard Firefighting Training
12. Machinery Repairman C Schools

[P5 / Technical Training Equipment Modifications]: Funds provided for schoolhouse modifications, upgrades, and technology refreshes of end items in support of fleet training requirements including Hull Mechanical and Electrical (HM&E), and combat systems technical training equipment (TTE) for the training activities. Provides equipment to augment existing TTE due to increased student throughput, replaces equipment beyond economical repair and procures new equipment.

[P5 / STAVE-FFG 62 SEAFRAME SIMULATORS]: Funds provide for procurement of the Guided Missile Frigate (FFG 62) program tactical training simulators and equipment for respective FFG 62 homeports. Training equipment is needed to meet the Key Performance Parameter (KPP) requirement of the Capabilities Development Document. Funding supports crew pipeline and Fleet Concentration Area training

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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: 0204112N, 0804731N, 0204228N, 0204230N	Other Related Program Elements: N/A
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requirements of FFG by procurement of hardware and software associated with existing surface trainers. This procurement enables ship Commanding Officers to witness watch stander crew performance under realistic at sea scenarios in a synthetic, shore-based environment. Crews must be able to complete mission area certifications and advanced and integrated training prior to arriving in theater. Such training requires a robust CONUS-based training infrastructure, including watch team level bridge, combat, and engineering simulators as outlined in the Capabilities Development Document (CDD).

[P5 / SURFACE MINOR MODS]: Funds provided for modernization for training systems for surface and expeditionary training systems in accordance with the results of DON directed and Fleet sponsored studies. Specific studies of surface training systems include: Fleet Review Panel of Surface Force Readiness, Aegis Weapon System/SPY Radar Readiness Task Force, LPD 17 Class Wholeness Task Force, Navigation Wholeness Study, Surface Engineering Training Wholeness Review, Fleet Integrated Air and Missile Defense and Anti-Submarine Warfare Improvement Programs, Aegis Ashore, Naval Integrated Fire Control-Counter Air (NIFCCA) and C5I training requirements documents, Littoral Combat Ship (LCS) Front End Analysis (FEA), DDG 1000 wholeness review, LHD 8/ LHA 6 Front End Analysis (FEA), Commander Naval Surface Forces (CNSF) manpower initiatives impact on readiness, and the Navy Inspector General (IG) report on Computer Based Training (CBT). Surface Training Readiness Management Systems (STRMS) - procurement of hardware/software and implementation of the tracking system and incremental scaling/modification of each mission area competency, proficiency and associated Training and Readiness (T&R) metric for comparison to Fleet requirements across all Cruiser/Destroyer (CRUDES) baselines. The extensive inventory of training systems to support 16 classes of ships requires continual modernization and modification to ensure alignment with fleet systems while addressing technology obsolescence issues. Funding is budgeted to modernize systems including the following:
1. Damage Control Wet Trainers Upgrades/Refresh - As a result of the post Bonhomme Richard fire report and the revised Surface Ship and Submarine Survivability Training Requirements (OPNAVINST 3541.1H), funding for Damage Control training and readiness is vital to ensure the renovation and modernization of the existing damage control training facilities, close training gaps, enhance trainer capabilities and increase facility lifespan for DCWT located in Newport, Norfolk, Mayport, San Diego, Pearl Harbor and Yokosuka which impacts over 55,000 students across the fleet.
2. DDG 51 Machinery Control System Maintenance Trainer
3. Electrical Maintenance Training
4. Air Conditioning and Refrigeration (AC&R) Maintenance Training
5. Deck System Equipment Training
6. Marine Sanitation Devices
7. Advanced Electronic Attack (EA)
8. Anti-Submarine Warfare (ASW) Tactical Trainers to include ASW Tactical Employment Trainer (ATET).
9. Elevator Systems
10. Steam Maintenance Training
11. DDG 1000 Training Systems
12. Expeditionary Mobile Base (ESB) Training Systems
13. Landing Craft Utility (LCU) 1600/1700 Training Systems
14. Air Defense Strike Group Facility (ADSGF)/Integrated Training Facility (ITF) (Fallon, NV)
15. LCS Training Systems
16. Surface Training Readiness Management Systems (STRMS)
17. 7m Rigid Inflatable Boat (RIB) Training Systems
18. DDG 51 FLT III New Systems Training
19. Training systems for Gunner's Mate (GM), Fire Controlman (FC), Fire Controlman Aegis (FCA), Boatswain's Mate (BM), Interior Communications Technician (IC), Sonar Technician - Surface (STG), and Operations Specialist (OS) accession training
20. Air Intercept Control (AIC) Simulators

[P5 / FFT/SLEP/MODULAR TRAINER]: Funds are provided for the Service Life Extension Program (SLEP) Firefighter Trainer (FFT). Trainers, located in Newport, Norfolk, Mayport, San Diego, Pearl Harbor, and Great Lakes, are vital to ensuring the fleet's ability to utilize and employ shipboard systems. As a result of the post Bonhomme Richard fire report and the revised Surface Ship and Submarine Survivability Training Requirements (OPNAVINST 3541.1H), funding is vital to ensure the renovation and modernization of the existing firefighting training facilities, close training gaps, enhance trainer capabilities and increase facility lifespan for FFT which impacts students across the fleet.

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ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** 0204112N, 0804731N, 0204228N, 0204230N	**Other Related Program Elements:** N/A
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[P5 / FCA TRAINERS]: Funds are provided for upgrades to shore based trainers (Combat System, HM&E) in Fleet Concentration Areas, to include Multi-Mission Team Trainer upgrades.

[P3A / MB040 - BFTT/ATD Ship Sets]: The Total Ship Training Capability (TSTC)/Advanced Training Domain (ATD)/ Battle Force Tactical Training (BFTT) 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 AN/USQ-T46 and ATD AN/USQ-T52/T52A are core components of the TSTC. Battle Force Tactical Training (BFTT) T46/T52 Ship set configurations vary depending on AEGIS or Ship Self Defense System (SSDS) installation. T46/T52's for SSDS include additional materials and units to be integrated for stimulation of the ships sensors.

[P3A - 2 / MB040 BFTT/ATD/TSTC Upgrade Kits]: Battle Force Tactical Training (BFTT) / Advanced Training Domain (ATD) / Total Ship Training Capability (TSTC) Upgrade Kits upgrades implement Fleet prioritized warfighting training improvements and maintain alignment with SSDS and Aegis baseline updates to meet tactical training requirements and evolving combat system capabilities. Additional upgrade kits being procured include Virtual Tactical Bridge Embarked Synthetic Radio (VTBeSR) and SPS-48G radar field change kits in support of initial LVC enhancements. FYDP reflects increasing Planning Yard and Alteration Installation Team (AIT) installation cost requirements, inflation, and upgrade complexity. Training system improvements are a critical factor in achieving warfighter competencies and mission readiness. Unit costs are variable.

Exhibit P-40, Budget Line Item Justification: PB 2025 Navy	Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** 0204112N, 0804731N, 0204228N, 0204230N
Other Related Program Elements: N/A	
Line Item MDAP/MAIS Code: 000	

Exhibits Schedule					Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-40a	Other Ships Training Equipment				- / 214.267	- / 83.715	- / 64.586	- / 59.775	- / -	- / 59.775
P-5	1 / TS004 Surface Training Device Mods [TS004]				- / 460.595	- / 90.909	- / 114.595	- / 86.584	- / 0.000	- / 86.584
P-3a	1 / MB040 - BFTT/ATD Ship Sets (SHIPALT)				- / 86.259	- / 12.800	- / 13.800	- / 14.400	- / 0.000	- / 14.400
P-3a	2 / MB040 BFTT/ATD/TSTC Upgrade Kits (Various)				- / 56.001	- / 16.271	- / 16.506	- / 19.215	- / 0.000	- / 19.215
P-40	**Total Gross/Weapon System Cost**				**- / 817.122**	**- / 203.695**	**- / 209.487**	**- / 179.974**	**- / 0.000**	**- / 179.974**

Exhibits Schedule					FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)	Quantity / Total Cost (Each) / ($ M)
P-40a	Other Ships Training Equipment				- / -	- / -	- / -	- / -	- / -	- / -
P-5	1 / TS004 Surface Training Device Mods [TS004]				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / MB040 - BFTT/ATD Ship Sets (SHIPALT)				- / 14.200	- / 14.350	- / 14.575	- / 14.850	Continuing	Continuing
P-3a	2 / MB040 BFTT/ATD/TSTC Upgrade Kits (Various)				- / 16.959	- / 17.486	- / 18.072	- / 18.522	- / 0.000	- / 179.032
P-40	**Total Gross/Weapon System Cost**				**- / 236.547**	**- / 201.400**	**- / 192.806**	**- / 191.309**	**Continuing**	**Continuing**

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:

SURFACE TRAINING ADVANCED VIRTUAL ENVIRONMENT (STAVE) SEAFRAME SIMULATORS
FY25 decrease ($5.240M) reflects modernization and upgrades to existing Integrated Tactical Trainers (ITTs), Bridge part Task Trainers (BPTTs), Virtual Reality Laboratories (VRLs) and Mission Bay Trainers (MBTs).

CVN 78 Class Training Equipment
FY25 increase ($0.044M) supports the increase in Tactical Training Equipment (TTE) requirements of new CVN 78 Class Contractor Furnished Equipment (CFE) systems.

LCAC Life Cycle Training System
FY25 decrease ($13.136M) is due to anticipated decrease in requirements after completing Ship to Shore Connector training system procurement, with funds remaining only for LCAC trainer modernization.

FY25 decrease ($28.011M) for P5 Surface Training Device Modifications in accordance with Surface Training Investment Plan (STIP) requirements planned for the fiscal year. Decrease due to the fact that significant investments were made in CE 1.1.1 NAVIGATION TRAINERS for Navigation, Seamanship, and Ship-handling Trainers (NSST) as well as CE 2.1.1 SURFACE MINOR MODS for Virtual Maintenance Trainers (VMT) and Surface Training Advanced Virtual Environment (STAVE) Ready Relevant Learning (RRL) Modifications, and fewer procurements are planned in these cost elements for FY25. This program provides funding to procure, modify, and upgrade training devices to keep them compatible with equivalent changes made to Fleet operational equipment. Funds ensure alignment between Surface Learning Centers and Fleet Concentration Area training systems and Fleet training requirements as dictated by the Surface Training Investment Plan (STIP).

Total Ship Training Capability (TSTC)

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Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 04: Ordnance Support Equipment / BSA 7: Other Expendable Ordnance	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	
ID Code (A=Service Ready, B=Not Service Ready): A	**Program Elements for Code B Items:** 0204112N, 0804731N, 0204228N, 0204230N	**Other Related Program Elements:** N/A
Line Item MDAP/MAIS Code: 000		

FY25 increase $6.350M supports LCS lethality and survivability (L&S) hulls for procurement of shipsets and parts to meet Sailor certification training requirements including while forward deployed. To establish required combat system tactically aligned training capabilities for shipboard infrastructure to support the high-fidelity Combat System Simulation/Stimulation (CS3). To incorporate Infrastructure as a Service (IaaS) hardware to support to stay in alignment with combat system requirements. For procurement of shipboard Cooperative Engagement Capability (CEC) Embedded Trainers (CET) and shipboard Enhanced Collection Systems (ECS) for data collection and debrief.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Aggregated Items Title:** Other Ships Training Equipment

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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) SURFACE TRAINING ADVANCED VIRTUAL ENVIRONMENT (STAVE) SEAFRAME SIMULATORS																				
1.1) STAVE-LCS Virtual Reality Labs, Networks & Modernization [1]	A		-	-	22.184	-	-	5.668	-	-	1.118	-	-	0.768	-	-	-	-	-	0.768
1.2) STAVE-LCS Mission Bay Trainers & Modernization [2]	A		-	-	16.797	-	-	0.779	-	-	0.834	-	-	2.824	-	-	-	-	-	2.824
1.3) STAVE-LCS Integrated Tactics Trainer (ITT) Modernization [3]	A		-	-	10.104	-	-	38.234	-	-	2.496	-	-	2.037	-	-	-	-	-	2.037
1.4) STAVE-LCS Bridge Part Task Trainers (BPTT) & Modernization [4]	A		-	-	18.103	-	-	0.991	-	-	0.828	-	-	0.991	-	-	-	-	-	0.991
1.5) STAVE-LCS Combat Systems Virtual Operations Trainers (CS VOT) [5]	A		-	-	5.300	-	-	0.292	-	-	1.600	-	-	4.869	-	-	-	-	-	4.869
1.6) STAVE - LCS Courseware [6]	A		-	-	-	-	-	-	-	-	0.409	-	-	0.865	-	-	-	-	-	0.865
1.7) STAVE - LCS Surface Warfare Mission Module Training	A		-	-	-	-	-	1.020	-	-	6.929	-	-	-	-	-	-	-	-	-
1.8) Engineering Development Model for LCS Training Devices	A		-	-	-	-	-	-	-	-	3.000	-	-	-	-	-	-	-	-	-
1.9) Outfitting for new LCSRON Support Facility in Mayport, FL	A		-	-	-	-	-	-	-	-	2.000	-	-	-	-	-	-	-	-	-
1.10) STAVE-LCS Integrated Tactical Trainer ITT (Complete System)	A		30,028K	2	60.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.11) STAVE-LCS Tactical Action Officer Trainers & Modernization	A		-	-	7.688	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.12) LCS Individual Training Systems [7]	A		-	-	-	-	-	-	-	-	-	-	-	12.100	-	-	-	-	-	12.100
Subtotal: 1) SURFACE TRAINING ADVANCED VIRTUAL			**-**	**-**	***140.233***	**-**	**-**	***46.984***	**-**	**-**	***19.214***	**-**	**-**	***24.454***	**-**	**-**	**-**	**-**	**-**	***24.454***

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Aggregated Items Title:** Other Ships Training Equipment

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 Total		
			Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)	Unit Cost ($)	Qty (Each)	Total Cost ($ M)
ENVIRONMENT (STAVE) SEAFRAME SIMULATORS																				
2) Total Ship Training Capability (TSTC) formerly MB040 - BFTT/ATD SHIP SETS/TSTC																				
2.1) MB040 - Combined IAMD/ASW Trainer (CIAT)	A		-	-	10.059	-	-	-	-	-	1.512	-	-	1.542	-	-	-	-	-	1.542
2.2) MB040 - Fleet Training Wholeness Strike Group CEC Training at Sea [8]	A		-	-	3.489	-	-	4.998	-	-	4.064	-	-	-	-	-	-	-	-	-
2.3) MB040 - Surface Advanced Virtual Environment (STAVE) [9]	A		-	-	21.751	-	-	-	-	-	18.347	-	-	13.877	-	-	-	-	-	13.877
2.4) MB040 - BFTT Ship Sets	A		481,545.45	11	5.297	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.5) MB040 - Live, Virtual, and Constructive (LVC) Training [10]	A		-	-	-	-	-	-	-	-	3.692	-	-	15.237	-	-	-	-	-	15.237
Subtotal: 2) Total Ship Training Capability (TSTC) formerly MB040 - BFTT/ATD SHIP SETS/TSTC			**-**	**-**	***40.596***	**-**	**-**	***4.998***	**-**	**-**	***27.615***	**-**	**-**	***30.656***	**-**	**-**	**-**	**-**	**-**	***30.656***
3) CVN 78 Class Training Equipment																				
3.1) CVN 78 Class Training Equipment	A		-	-	32.786	-	-	2.468	-	-	2.430	-	-	2.474	-	-	-	-	-	2.474
Subtotal: 3) CVN 78 Class Training Equipment			**-**	**-**	***32.786***	**-**	**-**	***2.468***	**-**	**-**	***2.430***	**-**	**-**	***2.474***	**-**	**-**	**-**	**-**	**-**	***2.474***
4) LCAC Lifecycle Training System																				
4.1) SSC Life Cycle Training System Procurement [11]	A		-	-	0.652	-	-	29.265	-	-	15.327	-	-	0.091	-	-	-	-	-	0.091
4.2) LCAC Trainer System Upgrades and Modernization [12]	A		-	-	-	-	-	-	-	-	-	-	-	2.100	-	-	-	-	-	2.100
Subtotal: 4) LCAC Lifecycle Training System			**-**	**-**	***0.652***	**-**	**-**	***29.265***	**-**	**-**	***15.327***	**-**	**-**	***2.191***	**-**	**-**	**-**	**-**	**-**	***2.191***
Total			**-**	**-**	**214.267**	**-**	**-**	**83.715**	**-**	**-**	**64.586**	**-**	**-**	**59.775**	**-**	**-**	**-**	**-**	**-**	**59.775**

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

Footnotes:

[1] FY25 decrease due to shift from procurement to upgrades.

[2] FY25 increase supports efforts including Twin Boom Extensible Crane requirements.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Aggregated Items Title:** Other Ships Training Equipment

(3) FY25 decrease is driven by accomplishment of a Lethality and Survivability for ITT 2A.

(4) FY25 increase supports STAVE-LCS Bridge Part Task Trainers (BPTT) and Modernization training requirements.

(5) FY25 increase supports efforts including Combat System Modernization requirements.

(6) FY25 increase supports current STAVE courseware requirements.

(7) New in FY25. Funds increase support initial individual training system procurement while addressing training and communications shortfalls.

(8) Efforts consolidated to P3A category BFTT/ATD/TSTC Upgrade Kits line.

(9) FY25 supports Surface Training Investment Plan (STIP) requirements planned.

(10) FY25 increase provided to establish required combat system tactically aligned training capabilities for shipboard infrastructure to support the high-fidelity Combat System Simulation/Stimulation (CS3).

(11) FY25 decrease due requirements shifting from procurement to modernization/upgrades/updates.

(12) FY25 increase due new requirement for LCAC trainer modernization/upgrade.

Exhibit P-5, Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Item Number / Title [DODIC]:** 1 / TS004 Surface Training Device Mods [TS004]
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	460.595	90.909	114.595	86.584	0.000	86.584
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	460.595	90.909	114.595	86.584	0.000	86.584
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**460.595**	**90.909**	**114.595**	**86.584**	**0.000**	**86.584**
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)						
Initial Spares *($ in Millions)*	-	-	-	-	-	-
Gross/Weapon System Unit Cost *($ in Dollars)*	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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)
Flyaway Cost																		
Recurring Cost																		
1.1.1) Navigation Trainers [13]	-	-	135.325	-	-	13.530	-	-	20.777	-	-	15.637	-	-	0.000	-	-	15.637
1.1.2) AEGIS Ashore Trainer/C4I/Tech Refresh	-	-	34.238	-	-	0.500	-	-	0.700	-	-	0.700	-	-	0.000	-	-	0.700
1.1.3) Combined IAMD/ASW Trainer (CIAT) [14]	-	-	126.714	-	-	19.746	-	-	13.467	-	-	20.000	-	-	0.000	-	-	20.000
1.1.4) Navy Training System Plan (NTSP TTE/TD Mods) [15]	-	-	38.743	-	-	7.150	-	-	7.775	-	-	1.500	-	-	0.000	-	-	1.500
1.1.5) Technical Training Equipment Modifications	-	-	4.578	-	-	0.812	-	-	0.827	-	-	0.843	-	-	0.000	-	-	0.843
1.1.6) STAVE-FFG 62 SEAFRAME SIMULATORS	-	-	0.000	-	-	0.000	-	-	15.950	-	-	15.760	-	-	0.000	-	-	15.760
Subtotal: Recurring Cost	-	-	*339.598*	-	-	*41.738*	-	-	*59.496*	-	-	*54.440*	-	-	*0.000*	-	-	*54.440*
Subtotal: Flyaway Cost	**-**	**-**	***339.598***	**-**	**-**	***41.738***	**-**	**-**	***59.496***	**-**	**-**	***54.440***	**-**	**-**	***0.000***	**-**	**-**	***54.440***
Hardware - Trainers Cost Cost																		
Recurring Cost																		

Exhibit P-5, Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Item Number / Title [DODIC]:** 1 / TS004 Surface Training Device Mods [TS004]
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2023			FY 2024			FY 2025 Base			FY 2025 OCO			FY 2025 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)
2.1.1) SURFACE MINOR MODS [16]	-	-	109.190	-	-	44.221	-	-	51.829	-	-	29.434	-	-	0.000	-	-	29.434
2.1.2) FFT/SLEP/ MODULAR TRAINER	-	-	9.707	-	-	1.700	-	-	1.670	-	-	1.660	-	-	0.000	-	-	1.660
2.1.3) FCA TRAINERS [17]	-	-	2.100	-	-	3.250	-	-	1.600	-	-	1.050	-	-	0.000	-	-	1.050
Subtotal: Recurring Cost	-	-	*120.997*	-	-	*49.171*	-	-	*55.099*	-	-	*32.144*	-	-	*0.000*	-	-	*32.144*
Subtotal: Hardware - Trainers Cost Cost	**-**	**-**	***120.997***	**-**	**-**	***49.171***	**-**	**-**	***55.099***	**-**	**-**	***32.144***	**-**	**-**	***0.000***	**-**	**-**	***32.144***
Gross/Weapon System Cost	**-**	**-**	**460.595**	**-**	**-**	**90.909**	**-**	**-**	**114.595**	**-**	**-**	**86.584**	**-**	**-**	**0.000**	**-**	**-**	**86.584**

Footnotes:

[13] FY25 funding decreased due fewer planned procurements for Navigation, Seamanship, and Ship-handling Trainers (NSST).

[14] FY25 increase supports the implementation of AEGIS Weapon System (AWS) Upgrades (Capability Package (CP) 22-2, CP 24 and Baseline 10) working with the SQQ-89 (Advanced Capability Build (ACB) 19) in a Combat System Simulator Stimulator (CS3) build in to CIAT.

[15] FY25 decreased in response to the number of formal courses of instruction that require NTSP updates in accordance with the Surface Training Investment Plan (STIP) requirements.

[16] FY25 decreased due to fewer planned procurement of Virtual Maintenance Trainers (VMT) and Surface Training Advanced Virtual Environment (STAVE) Ready Relevant Learning (RRL) Modifications.

[17] FY25 decreased due to decrease in required technical refresh upgrades for the Multi-Mission Tactical Trainers.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Modification Number / Title:** 1 / MB040 - BFTT/ATD Ship Sets
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	86.259	12.800	13.800	14.400	0.000	14.400	14.200	14.350	14.575	14.850	Continuing	Continuing
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	86.259	12.800	13.800	14.400	0.000	14.400	14.200	14.350	14.575	14.850	Continuing	Continuing
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**86.259**	**12.800**	**13.800**	**14.400**	**0.000**	**14.400**	**14.200**	**14.350**	**14.575**	**14.850**	**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 Total Ship Training Capability (TSTC)/Advanced Training Domain (ATD)/ Battle Force Tactical Training (BFTT) 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.
TSTC/ATD/BFTT uses a distributed architecture, integrating existing training systems, and uses Distributed Interactive Simulation (DIS) and High Level Architecture (HLA) protocols.
TSTC/ATD/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)/Live Virtual Constructive (LVC) 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/LVC interoperability to deliver training that is commensurate with tactical capabilities.

BFTT AN/USQ-T46 and ATD AN/USQ-T52/T52A are core components of the TSTC.
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 T46 and T52 Ship set configurations vary depending on AEGIS or Ship Self Defense System (SSDS) installation. T46/T52's for SSDS include additional materials and units to be integrated for stimulation of the ships sensors.

TSTC/ATD/BFTT Ship Set funding will procure T46's and T52's and subsequent variants of hardware and software for Build 5.x series in support of AN/SQQ-89 upgrades, AN/SLQ-32(V)6 upgrades, AN/USG-2B upgrades, and ATD software builds in support of AEGIS Baseline 9 TI-16 upgrades and SSDS upgrades -- which drives the difference in unit cost.
Installation funding supports installation of BFTT/ATD Systems.
Additional costs will be incurred to procure materials needed to ensure cyber security requirements are met and to maintain connectivity with Navy Continuous Training Environment (NCTE) to meet shipboard integrated training demands.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Modification Number / Title:** 1 / MB040 - BFTT/ATD Ship Sets
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	
Models of Systems Affected: BFTT/ATD SHIP SETS - T46/T52's	**Modification Type:** SHIPALT	**Related RDT&E PEs:** 0204571N

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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/ATD Ship Sets												
B Kits												
Recurring												
1.1.1) BFTT/ATD Ship Sets - NonOrganic [18]	59 / 58.094	8 / 8.000	9 / 9.000	12 / 9.900	- / -	12 / 9.900	10 / 8.500	11 / 9.350	11 / 9.350	11 / 9.350	Continuing	Continuing
Subtotal: Recurring	*- / 58.094*	*- / 8.000*	*- / 9.000*	*- / 9.900*	*- / -*	*- / 9.900*	*- / 8.500*	*- / 9.350*	*- / 9.350*	*- / 9.350*	*Continuing*	*Continuing*
Subtotal: MB040 - BFTT/ATD Ship Sets	*59 / 58.094*	*8 / 8.000*	*9 / 9.000*	*12 / 9.900*	*- / -*	*12 / 9.900*	*10 / 8.500*	*11 / 9.350*	*11 / 9.350*	*11 / 9.350*	*Continuing*	*Continuing*
Subtotal: Procurement, All Modification Items	*- / 58.094*	*- / 8.000*	*- / 9.000*	*- / 9.900*	*- / -*	*- / 9.900*	*- / 8.500*	*- / 9.350*	*- / 9.350*	*- / 9.350*	*Continuing*	*Continuing*
Installation												
Modification Item 1 of 1: MB040 - BFTT/ATD Ship Sets	- / 28.165	- / 4.800	- / 4.800	- / 4.500	- / 0.000	- / 4.500	- / 5.700	- / 5.000	- / 5.225	- / 5.500	- / 5.500	- / 69.190
Subtotal: Installation	*- / 28.165*	*- / 4.800*	*- / 4.800*	*- / 4.500*	*- / -*	*- / 4.500*	*- / 5.700*	*- / 5.000*	*- / 5.225*	*- / 5.500*	*- / 5.500*	*- / 69.190*
Total												
Total Cost (Procurement + Support + Installation)	**86.259**	**12.800**	**13.800**	**14.400**	**0.000**	**14.400**	**14.200**	**14.350**	**14.575**	**14.850**	**Continuing**	**Continuing**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Modification Number / Title:** 1 / MB040 - BFTT/ATD Ship Sets
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

Modification Item 1 of 1: MB040 - BFTT/ATD Ship Sets

Manufacturer Information

Manufacturer Name: GTS (19)	Manufacturer Location: Virginia Beach, VA
Administrative Leadtime *(in Months)*: 2	Production Leadtime *(in Months)*: 9

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates	Dec 2021	Dec 2022	Dec 2023	Dec 2024	Dec 2025		
Delivery Dates	Sep 2022	Sep 2023	Sep 2024	Sep 2025	Sep 2026		

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime *(in Months)*: 2	Production Leadtime *(in Months)*: 9

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates						Dec 2026	Dec 2027
Delivery Dates						Sep 2027	Sep 2028

Installation Information

Method of Implementation: AIT:: Installation Name: BFTT/ATD Ship Sets

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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 / 28.165	8 / 4.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	59 / 32.965
FY 2023	- / -	- / -	8 / 4.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	8 / 4.800
FY 2024	- / -	- / -	- / -	9 / 4.500	0 / 0.000	9 / 4.500	- / -	- / -	- / -	- / -	0 / 0.000	9 / 4.500
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	12 / 5.700	- / -	- / -	- / -	0 / 0.000	12 / 5.700
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 5.000	- / -	- / -	0 / 0.000	10 / 5.000
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 5.225	- / -	0 / 0.000	11 / 5.225
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 5.500	0 / 0.000	11 / 5.500
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 5.500	11 / 5.500
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	51 / 28.165	8 / 4.800	8 / 4.800	9 / 4.500	0 / 0.000	9 / 4.500	12 / 5.700	10 / 5.000	11 / 5.225	11 / 5.500	11 / 5.500	131 / 69.190

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Modification Number / Title:** 1 / MB040 - BFTT/ATD Ship Sets
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 1 of 1: MB040 - BFTT/ATD Ship Sets

Installation Information

Method of Implementation: AIT:: Installation Name: BFTT/ATD Ship Sets

Installation Schedule

		FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029					
	PYS	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	51	1	2	3	2	1	2	2	3	1	3	3	2	1	3	5	3	2	3	3	2	2	3	3	3	2	3	3	3	11	131
Out	51	-	4	2	2	1	2	2	3	-	3	3	3	1	3	3	5	1	3	3	3	1	3	3	4	1	3	3	4	11	131

Footnotes:

(18) Materials and quantities installed are required to meet cyber security requirements and to maintain connectivity with Navy Continuous Training Environment (NCTE) to meet shipboard integrated training demands. Unit cost adjusted to reflect lower hardware costs. In FY25, 2 additional LCS Shipsets will be procured to reflect fleet priorities.

(19) Contract and Delivery Dates reflect that ship sets are contracted to procure on average 1 year prior to installation.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Modification Number / Title:** 2 / MB040 BFTT/ATD/TSTC Upgrade Kits
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
Procurement Quantity *(Units in Each)*	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost *($ in Millions)*	56.001	16.271	16.506	19.215	0.000	19.215	16.959	17.486	18.072	18.522	0.000	179.032
Less PY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) *($ in Millions)*	56.001	16.271	16.506	19.215	0.000	19.215	16.959	17.486	18.072	18.522	0.000	179.032
Plus CY Advance Procurement *($ in Millions)*	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority *($ in Millions)*	**56.001**	**16.271**	**16.506**	**19.215**	**0.000**	**19.215**	**16.959**	**17.486**	**18.072**	**18.522**	**0.000**	**179.032**
(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:

Total Ship Training Capability (TSTC)/ Battle Force Tactical Training (BFTT) family of systems Upgrade Kits procure, install, and remove various quantities of upgrade kit/Engineering Change Proposal (ECP) system components, ShipAlts, Field Changes and Software Deliveries on surface ships and related shore sites to support the fleet's needs. Upgrade kits also support Shipboard Connectivity Suite (SCS) Tech Refresh and Fleet Synthetic Training (FST) Shipboard Network Connectivity upgrades.

ShipAlts are upgrades driven by Combat Systems configuration as well as training configuration requirements.
Field Changes include existing BFTT Hardware T46 and Software Baselines 5.0 and 5.1 upgrades, Advanced Training Domain (ATD) T52/T52A hardware upgrades, Battle force Electronic Warfare Trainer (BEWT) Baseline II Hardware & Software upgrades, and Training Simulation Stimulation System (TSSS) legacy radar interface upgrades, and Virtual Tactical Bridge Embarked Synthetic Radio (VTBeSR) systems.
Software Deliveries are required to support Combat System, IA/cyber and BFTT/BEWT/BEWT-II/TSTC/TSSS/VTBeSR Hardware requirements.
Upgrade BFTT/TSTC Shipboard Connectivity Suite (SCS) through a Tech Refresh, to meet Navy Continuous Training Environment (NCTE), interoperability, and cybersecurity requirements.
Upgrade Shipboard Network Connectivity in support of Fleet Synthetic Training (FST) At Sea capability in support of Strike Group certification training events.
Upgrades include Information Assurance (IA)/cybersecurity compliance, as well as Obsolescence, Network upgrades and externally driven interface modifications.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Modification Number / Title:** 2 / MB040 BFTT/ATD/TSTC Upgrade Kits
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**
Models of Systems Affected: Battle Force Tactical Training, Advanced Training Domain, Total Ship Training Capability Upgrade Kit	**Modification Type:** Various	**Related RDT&E PEs:** 0204571N

Financial Plan	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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/ATD/TSTC Upgrade Kits												
B Kits												
Recurring												
1.1.1) BFTT/ATD/TSTC Upgrade Kits - NonOrganic (20)	489 / 20.056	87 / 6.719	87 / 6.651	103 / 8.621	- / -	103 / 8.621	91 / 7.507	91 / 7.066	91 / 7.574	93 / 7.987	- / -	1,132 / 72.181
Subtotal: Recurring	*- / 20.056*	*- / 6.719*	*- / 6.651*	*- / 8.621*	*- / -*	*- / 8.621*	*- / 7.507*	*- / 7.066*	*- / 7.574*	*- / 7.987*	*- / 0.000*	*- / 72.181*
Subtotal: MB040 BFTT/ATD/TSTC Upgrade Kits	*489 / 20.056*	*87 / 6.719*	*87 / 6.651*	*103 / 8.621*	*- / -*	*103 / 8.621*	*91 / 7.507*	*91 / 7.066*	*91 / 7.574*	*93 / 7.987*	*- / -*	*1,132 / 72.181*
Subtotal: Procurement, All Modification Items	*- / 20.056*	*- / 6.719*	*- / 6.651*	*- / 8.621*	*- / -*	*- / 8.621*	*- / 7.507*	*- / 7.066*	*- / 7.574*	*- / 7.987*	*- / 0.000*	*- / 72.181*
Installation												
Modification Item 1 of 1: MB040 BFTT/ATD/TSTC Upgrade Kits	- / 35.945	- / 9.552	- / 9.855	- / 10.594	- / 0.000	- / 10.594	- / 9.452	- / 10.420	- / 10.498	- / 10.535	- / 0.000	- / 106.851
Subtotal: Installation	*- / 35.945*	*- / 9.552*	*- / 9.855*	*- / 10.594*	*- / -*	*- / 10.594*	*- / 9.452*	*- / 10.420*	*- / 10.498*	*- / 10.535*	*- / 0.000*	*- / 106.851*
Total												
Total Cost (Procurement + Support + Installation)	**56.001**	**16.271**	**16.506**	**19.215**	**0.000**	**19.215**	**16.959**	**17.486**	**18.072**	**18.522**	**0.000**	**179.032**

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Modification Number / Title:** 2 / MB040 BFTT/ATD/TSTC Upgrade Kits
ID Code (A=Service Ready, B=Not Service Ready) :		**MDAP/MAIS Code:**

Modification Item 1 of 1: MB040 BFTT/ATD/TSTC Upgrade Kits

Manufacturer Information

Manufacturer Name: VARIOUS (21)	Manufacturer Location: VARIOUS
Administrative Leadtime *(in Months)*: 3	Production Leadtime *(in Months)*: 3

Dates	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Contract Dates	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026	Dec 2027	Dec 2028
Delivery Dates	Mar 2023	Mar 2024	Mar 2025	Mar 2026	Mar 2027	Mar 2028	Mar 2029

Installation Information

Method of Implementation: AIT:: Installation Name: BFTT/ATD/TSTC Upgrade Kits

Installation Cost	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	To Complete	Total
	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(Each)* / Total Cost *($ M)*	Qty *(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	447 / 35.945	42 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	489 / 35.945
FY 2023	- / -	52 / 9.552	35 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 0.000	87 / 9.552
FY 2024	- / -	- / -	49 / 9.855	38 / 0.000	0 / 0.000	38 / 0.000	- / -	- / -	- / -	- / -	0 / 0.000	87 / 9.855
FY 2025	- / -	- / -	- / -	52 / 10.594	0 / 0.000	52 / 10.594	51 / 0.000	- / -	- / -	- / -	0 / 0.000	103 / 10.594
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	49 / 9.452	42 / 0.000	- / -	- / -	0 / 0.000	91 / 9.452
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 10.420	41 / 0.000	- / -	0 / 0.000	91 / 10.420
FY 2028	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 10.498	43 / 0.000	0 / 0.000	91 / 10.498
FY 2029	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	51 / 10.535	42 / 0.000	93 / 10.535
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	447 / 35.945	94 / 9.552	84 / 9.855	90 / 10.594	0 / 0.000	90 / 10.594	100 / 9.452	92 / 10.420	89 / 10.498	94 / 10.535	42 / 0.000	1,132 / 106.851

Installation Schedule

	PYS	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029				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	447	24	18	22	30	23	12	23	26	23	15	25	27	27	24	24	25	21	21	25	25	20	21	22	26	21	22	25	26	42	1,132
Out	447	24	18	22	30	23	12	23	26	23	15	25	27	27	24	24	25	21	21	25	25	20	21	22	26	21	22	25	26	42	1,132

Footnotes:

(20) P40A CEC Training at Sea consolidated to P3A Upgrade Kits line. Unit cost adjusted to reflect lower hardware costs. Quantity increase for additional upgrade kits for LCS in accordance with fleet priorities. Install cost increase reflects increasing Planning Yard and Alteration Installation Team (AIT) installation cost requirements, inflation, and upgrade complexity. Unit costs are variable due to the unique software and/or hardware required by the specific training capability improvement.

Exhibit P-3a, Individual Modification: PB 2025 Navy		Date: March 2024
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 04 / 7	**P-1 Line Item Number / Title:** 5664 / Surface Training Equipment	**Modification Number / Title:** 2 / MB040 BFTT/ATD/TSTC Upgrade Kits
ID Code (A=Service Ready, B=Not Service Ready) :	**MDAP/MAIS Code:**	

(21) Upgrade kit procurements are on average initiated in first quarter and become available in second quarter of the current fiscal year for installation in third quarter, finishing in second quarter of the next fiscal year.

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